



Service Repair Manual

Models

D5C D5C LGP XL III Tractor

Previous Screen

Product: TRACK-TYPE TRACTOR

Model: D5C III TRACK-TYPE TRACTOR 8ZS

Configuration: D5C D5C LGP XL Series III Tractors Power Shift 8ZS00001-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

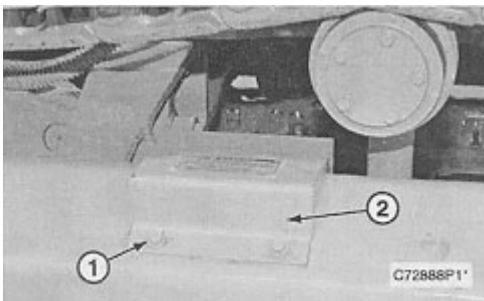
SEN53370006

Track Carrier Rollers

SMCS - 4154-015; 4154-016; 4154-010

Remove & Install Track Carrier Rollers

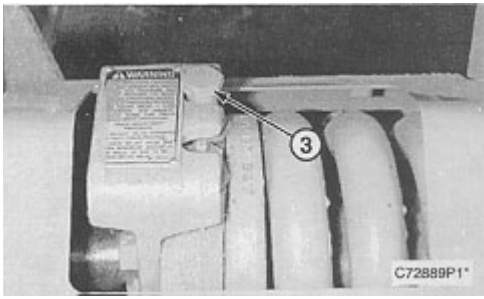
Tools Needed		A
2B9886	Hydraulic Jack	1



1. Remove four bolts and washers (1) and remove cover (2).

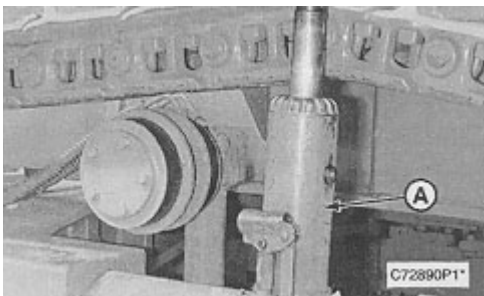
! WARNING

The adjuster cylinder for the track is under high hydraulic pressure. Do not visually inspect the relief valve to see if grease is released when it is open. Look to see that the track has loosened. Use this warning any time the tracks are loosened or tightened.

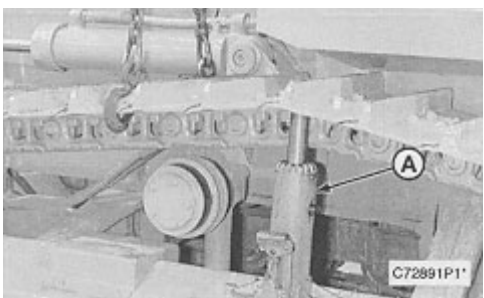


2. Loosen the track as follows:

- a.** Turn the relief valve (3) one turn counterclockwise to permit grease to be released from the vent hole below the relief valve. If the track does not loosen, go to Step b.
- b.** Turn fill valve one turn counterclockwise to permit grease to be released from the vent hole below the fill valve. If the track still does not loosen, start the machine and move it forward and backward. If grease is still not released, go to Step c.
- c.** Install a slug that is **76.2 mm (3 in)** in diameter and **63.5 mm (2.5 in)** long between the track and sprocket segment. Move the machine to the rear so the track will be pushed up by the bar. This will put tension on the track and move the front idler and track adjuster to the rear against the force of the recoil spring. This will push grease out of the vent holes.



- 3. Install tool (A). Make sure the end of the hydraulic jack is in contact with the flat part of the grouser shoe.**



- 4. Lift the track with tool (A) until it is off of the carrier roller. For additional safety, attach hooks to track as shown.**

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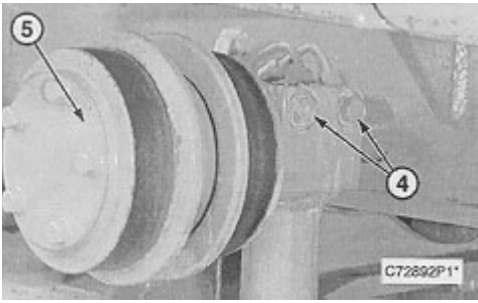
Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

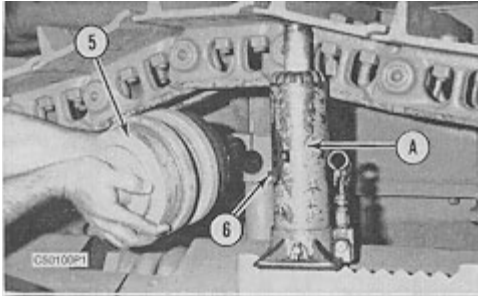
The full manual is available for immediate download.

<https://www.ebooklibonline.com>



5. Remove two bolts and washers (4). Remove carrier roller (5). The weight is **20 kg (45 lb)**.

NOTE: The following steps are for installation of track carrier rollers.



6. Put carrier roller (5) in position on the bracket with the dowels in alignment with holes (6). Install two washers and bolts (4) that hold it in position.

7. Remove tool (A).

8. Make an adjustment to the track. See the topic, Track Adjustment.

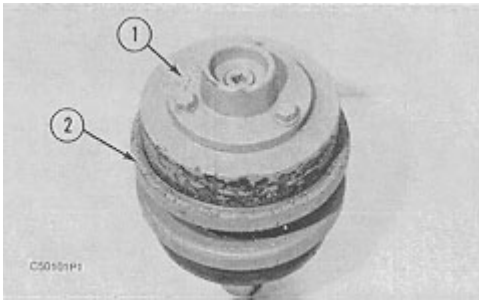
9. Install cover (2) over the hydraulic track adjuster and secure with bolts (1) that hold it in position.

Disassemble Track Carrier Rollers

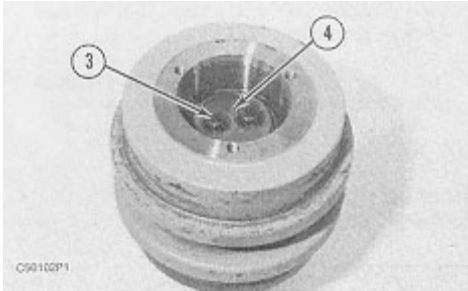
Tools Needed		A	B	C
1P2321	Puller Assembly	1		
8B7560	Step Plate	1		1
8B7554	Bearing Cup Puller Attachment		1	
8H684	Ratchet Box Wrench		1	1
8B7548	Puller Assembly		1	1
8H663	Bearing Puller Attachment			1

Start By:

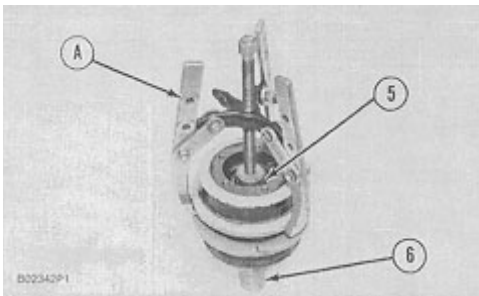
a. remove track carrier rollers



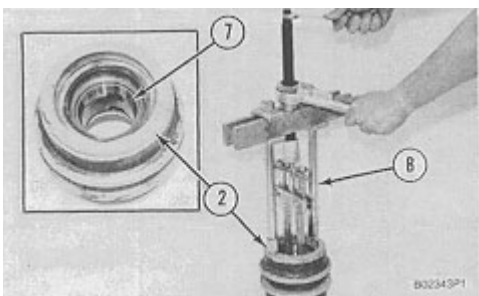
1. Remove cover (1) and the gasket from the track carrier roller (2).
2. Drain the oil from the roller.



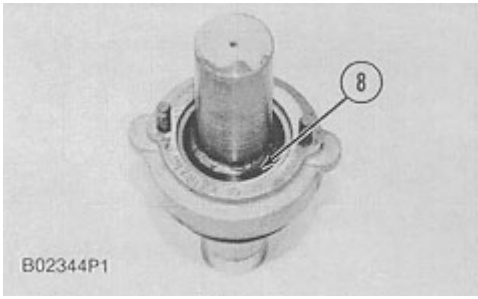
3. Remove two bolts (3). Remove the plate (4).



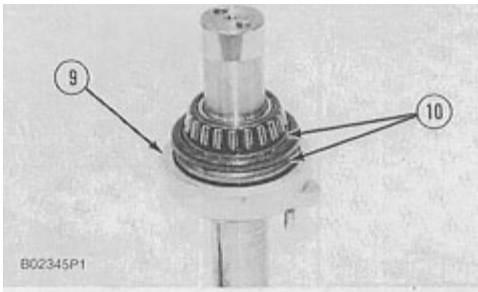
4. Use tooling (A) to push shaft assembly (6) out of the roller. Remove bearing cone (5) from the roller.



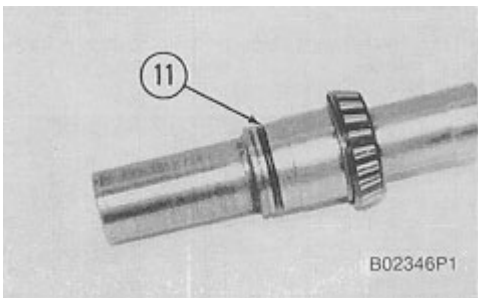
5. Use tooling (B) to remove bearing cups (7) from the roller.



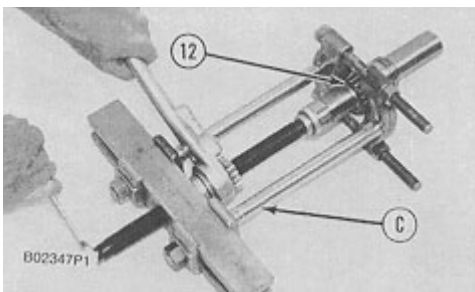
6. Remove spiral snap ring (8) from the shaft.



7. Remove collar (9) and Duo-Cone seals (10) from the shaft.



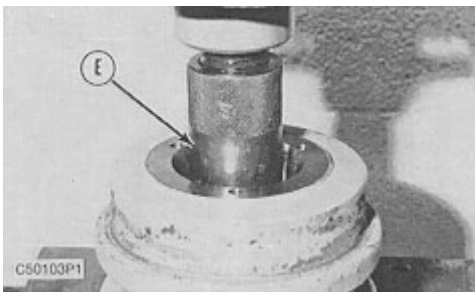
8. Remove O-ring seal (11) from the shaft.



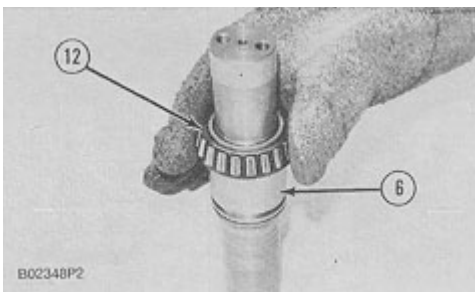
9. Use tooling (C) to remove bearing cone (12) from the shaft.

Assemble Track Carrier Rollers

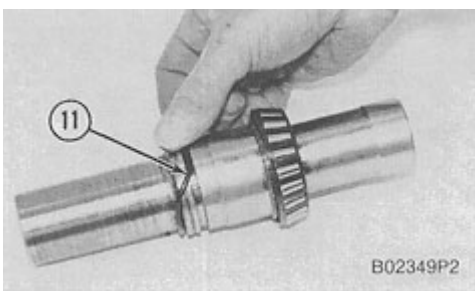
Tools Needed		A	B	C
5M2196	Installer Assembly	1		
1P510	Driver Group		1	
8B7560	Step Plate			1
8H684	Ratchet Box Wrench			1
8B7548	Puller Assembly			1
8B7551	Bearing Puller Attachment			1



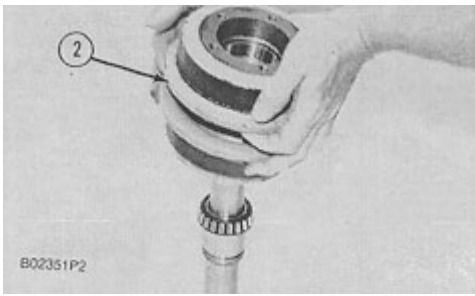
1. Use tooling (E) and a press to install the bearing cups in the roller.



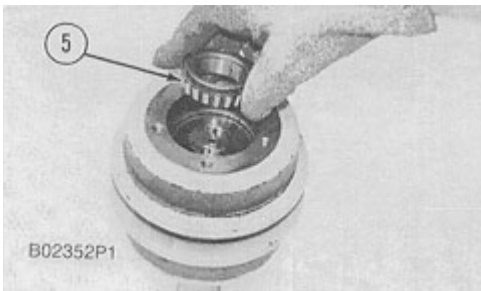
2. Heat bearing cone (12) to a maximum temperature of 135° C (275° F). Install the cone on shaft (6).



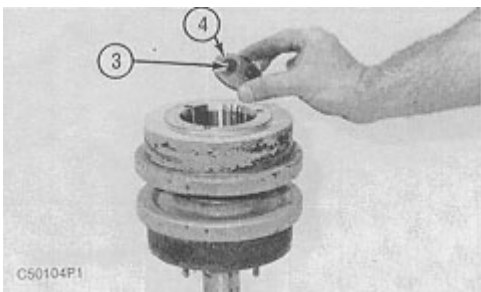
3. Install O-ring seal (11) on the shaft.



4. Install roller (2) on the shaft.

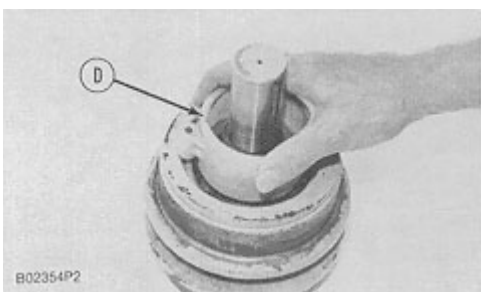


5. Heat bearing cone (5) to a maximum temperature of **135° C (275° F)**. Install the cone on the shaft.



NOTE: Assemble ground face of the plate to the end of the shaft and bearing.

6. Put plate in position on the shaft and install lock (4) and the bolts (3) that hold it in place. Put plate (4) in position and install two bolts (3) that hold it in place.

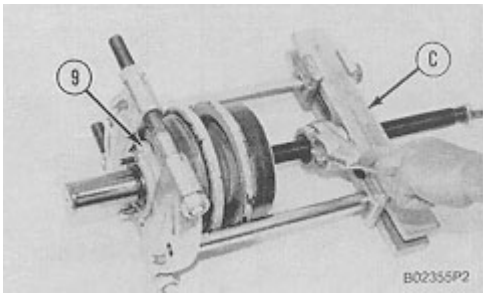


NOTE: See the topic, Installation Of Conventional Duo-Cone Seals, before installing any of the Duo-Cone seals.

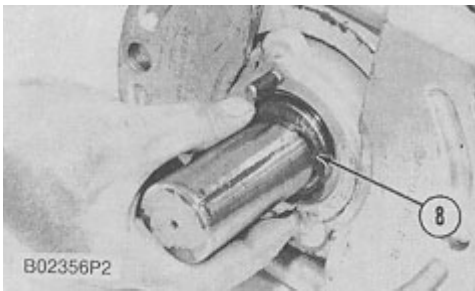
NOTE: The rubber seals and all surfaces that make contact with the seals must be clean and dry. After installation of the seals, put oil on the contact surfaces of the metal seals.

7. Use tooling (D) to install the Duo-Cone seal in the roller and collar.

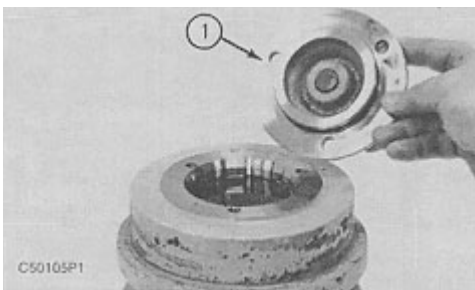
8. Put oil on the O-ring seal on the shaft and on the seal surface of the collar assembly.



9. Install collar (9) on the shaft. Install tooling (C) on the roller as shown. Put Duo-Cone seal under compression with tooling (C) until the spiral spring ring can be installed on the shaft.



10. Install spring ring (8) on the shaft.



11. Put **250 cc (.53 pint)** of clean **30 SAE oil** in the roller assembly and put the gasket and cover (1) in position. Install the three bolts that hold the cover in position.

End By:

a. install track carrier rollers

[Previous Screen](#)

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Model: D5C III TRACK-TYPE TRACTOR 8ZS

Configuration: D5C D5C LGP XL Series III Tractors Power Shift 8ZS00001-UP (MACHINE) POWERED BY 3046 Engine

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

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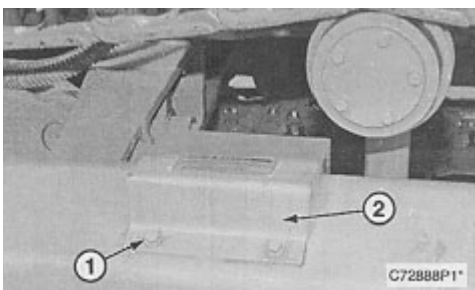
SENR53370007

Track Rollers

SMCS - 4180-015; 4180-016; 4180-010

Remove & Install Track Rollers

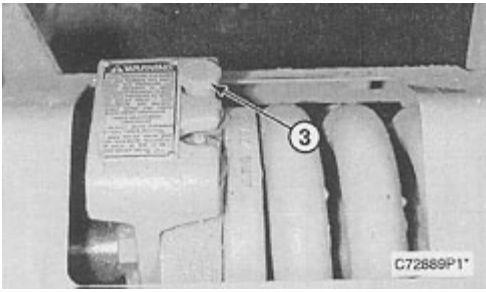
Tools Needed		A
FT1309	Lifting Fork, Track Roller	1



1. Remove four bolts (1) and remove cover (2).

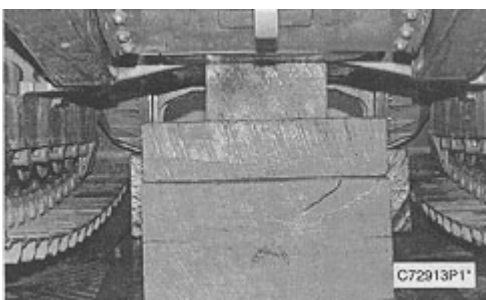
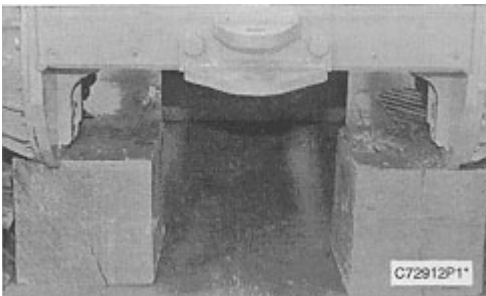
WARNING

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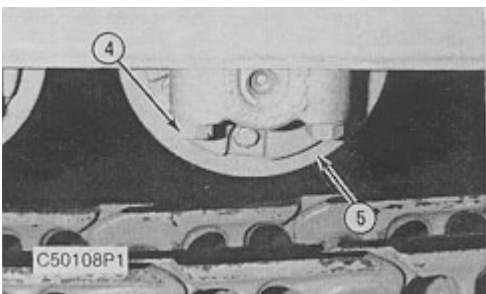


2. Loosen the track as follows:

- a.** Turn the relief valve (2) one turn counterclockwise to permit grease to be released from the vent hole below the relief valve. If the track does not loosen, go to Step b.
- b.** Turn fill valve one turn counterclockwise to permit grease to be released from the vent hole below the fill valve. If the track still does not loosen, start the machine and move it forward and backward. If grease is still not released, go to Step c.
- c.** Install a slug that is **76.2 mm (3 in)** in diameter **63.5 mm (2.5 in)** long between the track and sprocket segment. Move the machine to the rear so the track will be pushed up by the bar. This will put tension on the track and move the front idler and track adjuster to the rear against the force of the recoil spring. This will push grease out of the vent holes.



3. Lift the machine until the track rollers are off the track. Put wood blocks under the machine.

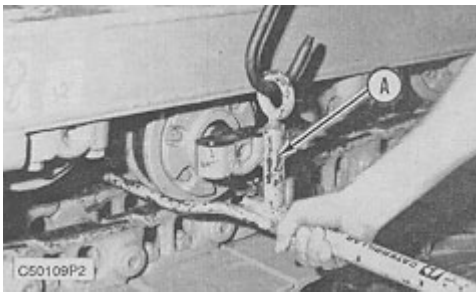


4. Remove four bolts and lockwashers (4). Remove track roller (5). Weight is **34 kg (75 lbs)** using tooling (A).

NOTE: The following steps are for installation of track rollers.

NOTICE

Remove all paint from the surfaces of the track roller and track roller frame that make contact. If there is paint between the track roller and track roller frame, the bolts that hold the track roller in place can loosen.



5. Put track roller (5) in position using tool (A). Install the bolts and lock washers that hold the roller in position.

NOTE: For rollers that use 5/8 inch bolts, tighten the bolts to a torque of $270 \pm 25 \text{ N}\cdot\text{m}$ ($199 \pm 18 \text{ lb ft}$). For rollers that use 1/2 inch bolts, tighten the bolts to a torque of $135 \pm 5 \text{ N}\cdot\text{m}$ ($100 \pm 4 \text{ lb ft}$).

6. Remove tooling (A) or wood blocks from under the machine.

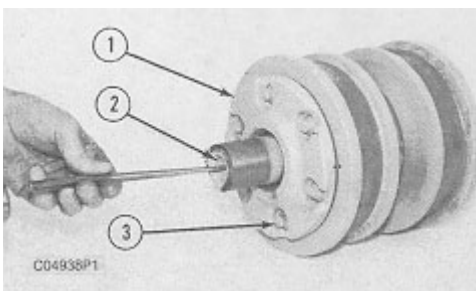
7 Make an adjustment to the track. See the Topic, Track Adjustment.

8. Put cover (2) in position and install bolts (1) that hold it in position.

Disassemble Track Rollers

Start By:

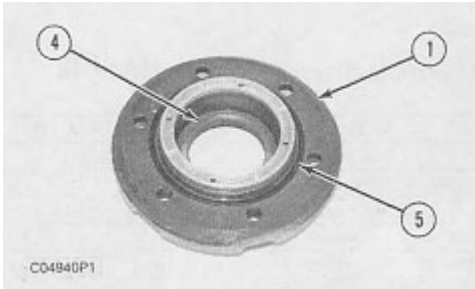
a. remove track rollers



1. Use a hammer and punch to drive the plug out of stopper (2).

NOTE: Removal of the plug and stopper (2) requires damaging stopper (2).

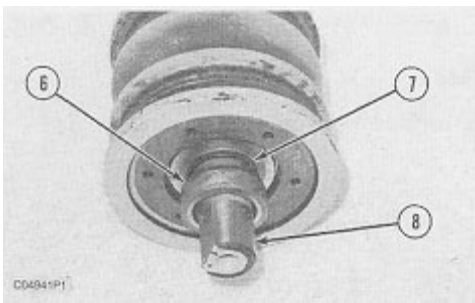
2. Use a slow speed drill and **12.7 mm (.50 in.)** drill bit to remove stopper (2) from the shaft.
3. Remove bolts (3) and retainer (1) from both sides of the track roller.



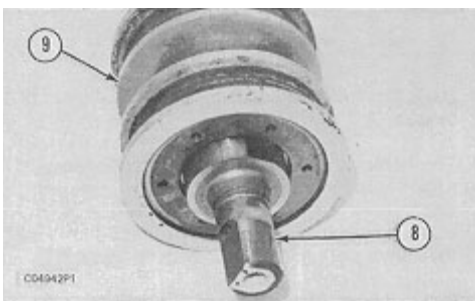
4. Remove O-ring seal (5) from retainer (1).

NOTE: If the Duo-Cone seals are to be reused, put identification marks on the seals to assure that they are installed in their original positions.

5. Remove seals ring (4) from retainer (1). Remove the O-ring seal from the seal ring (4).



6. Remove seals ring (6) and toric stabilizer (7) from shaft (8).



7. Remove shaft (8) from track roller (9).

Assemble Track Rollers

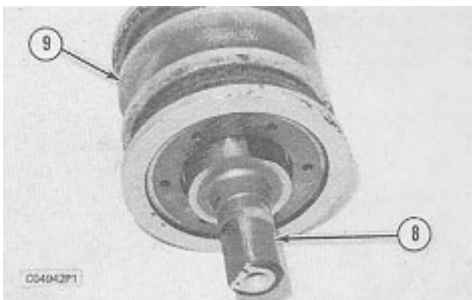
Tools Needed		A	B	C	D	E
8T944	Seal Installer	1				
8T945	Alignment Sleeve		1			
5P7419	Plug Installer			1		
FT575	Testing Tool					
8S2328	Dial Indicator Test Group					1

NOTE: Refer to the topic "Duo-Cone Seals" for further information prior to assembling the track rollers.

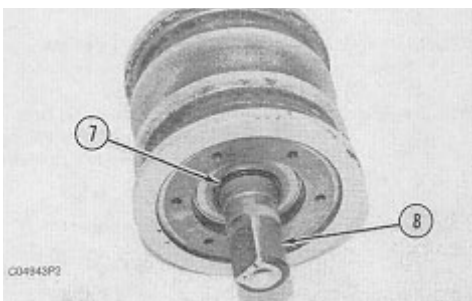
1. Clean and inspect all parts for wear or damage and replace if needed.
2. Make sure all parts are free of oil, film, dirt or other foreign material before assembling.

NOTICE

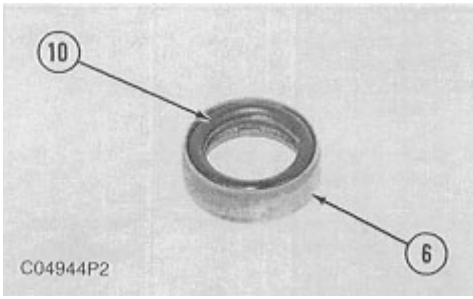
The bearing in track roller (9) can be damaged when shaft (8) is installed into track roller (9). Use care when positioning shaft (8).



3. Position shaft (8) and carefully install into track roller (9).

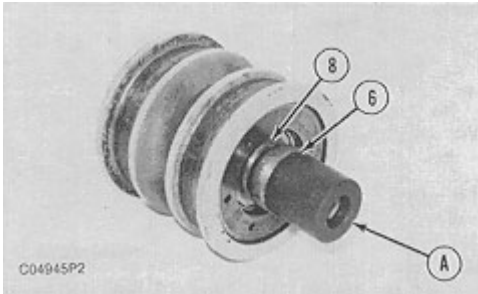


4. Put toric stabilizers (7) in position on both ends of shaft (8).

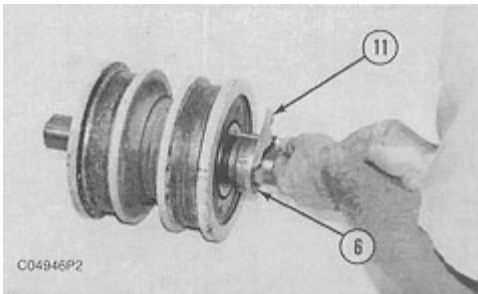


NOTE: Refer to the topic "Install Duo-Cone Floating Seals" for further information.

5. Put toric ring (10) in position in the seal ring (6).



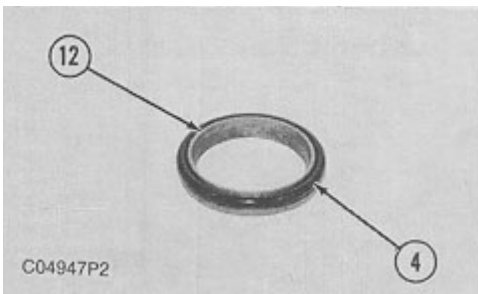
6. To install seal ring (6) onto shaft (8) use tool (A). When tool (A) contacts the end of shaft (8), seal ring (6) is positioned.



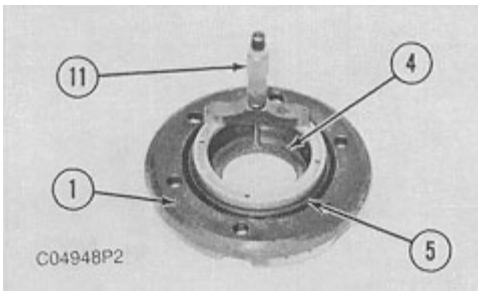
7. Use a depth micrometer (11) to measure the distance between seal ring (6) and shaft (8) at four locations 90° apart. The difference in these measurements must not exceed **0.80 mm (.031 in)**.

8. If adjustments to seal ring (6) is necessary, use tool (A) to make any necessary adjustments.

9. Repeat the procedures in steps 5 through 8 to install the remaining seal ring (6) on the opposite end of the track roller.



10. Position the O-ring seal (12) onto seal ring (4). Make sure O-ring seal (12) is straight and not twisted.

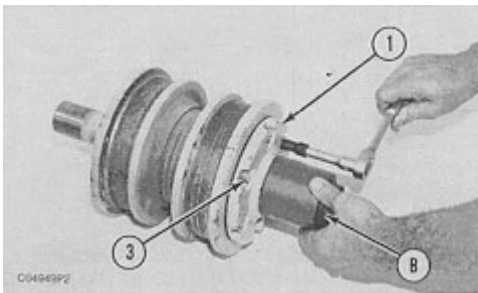


11. Position the O-ring seal (12) and seal ring (4) into retainer (1). When installing seal ring (4), use tool (A) to seat O-ring seal (12) and seal ring (4) against the bottom of retainer (1).

12. Use a depth micrometer (11) to measure the distance from the surface of the retainer to the surface of the seal at four locations **90°** apart. The difference in these measurements must not be more than:

a. 0.30 mm (.012 in) for D5C track type loaders. Use tool (A) to make adjustment if needed.

13. Install O-ring seal (5) onto retainer (1).



14. Put a thin film of clean oil on the face of the seal rings.

15. Put tool (B) in position in the bores of retainer (1) and the seal ring. Use tool (B) to install the retainer and seal ring in their original positions on the track roller.

16. Allow tool (B) to hold seal ring (4) and retainer (1) in position while installing bolts (3).

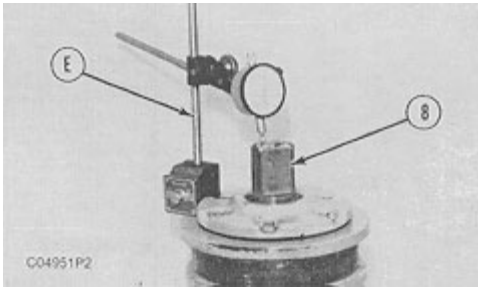
17. Evenly tighten bolts (3) to a torque of **55 ± 7 N·m (41 ± 5 lb ft)**. Remove tool (B).

18. Repeat Steps 10 through 17 to install the remaining retainer (1) on the opposite end of the track roller.

19. Use Tool (D) to pressure test the track roller as follows:

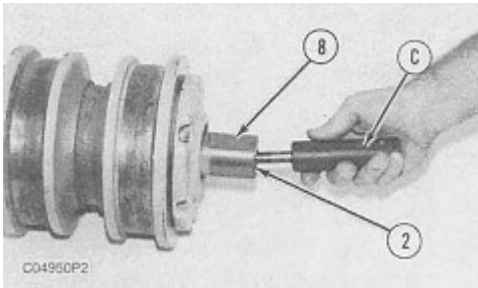
a. Use air (free of water) to pressurize the track roller to **280 kPa (41 psi)**.

b. Observe the pressure reading of the track roller. The pressure should remain the same for ten seconds. A reduction in pressure in ten seconds or less indicates a leak in the track roller. In the event of a leak, the track roller must be disassembled and checked.



20. Use Tool (E) to check the end play of shaft (8). The end play should be **0.25 mm to 0.85 mm (.010 to .033 in)**.

21. Fill the track roller with **345 ± 10 mL (11.71 ± .3 oz.)** of **SAE 30W** oil. The track roller should be filled through the opening in shaft (8) for the plug and stopper (2).



Installing stopper

22. Put clean oil on new stopper (2). Install stopper (2) in the end of shaft (8). The outside face of stopper (2) should be **10 ± 4 mm (.393 ± .16 in)** below the surface of shaft (8).

23. Use tool (C) to install the plug in stopper (2). The outside surfaces of the plug and stopper should be flush.

End By:

a. install track rollers

Previous Screen

Product: TRACK-TYPE TRACTOR

Model: D5C III TRACK-TYPE TRACTOR 8ZS

Configuration: D5C D5C LGP XL Series III Tractors Power Shift 8ZS00001-UP (MACHINE) POWERED BY 3046 Engine

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

Media Number -SEN5337-02

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Date Updated -15/02/2017

SEN53370008

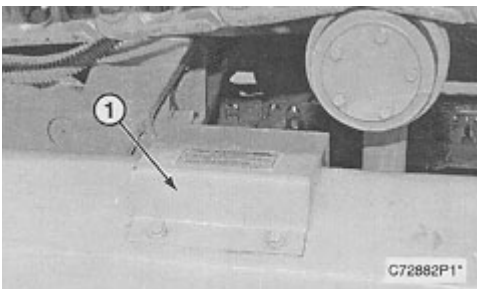
Tracks

SMCS - 4170-029

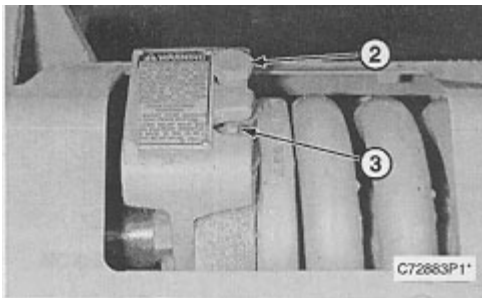
Separation of Tracks

Tools Needed		A
1P3532	Track Block Assembly	1

NOTE: This operation was done on the 931C. The D5C does not have a support bracket.



1. Remove cover (1).



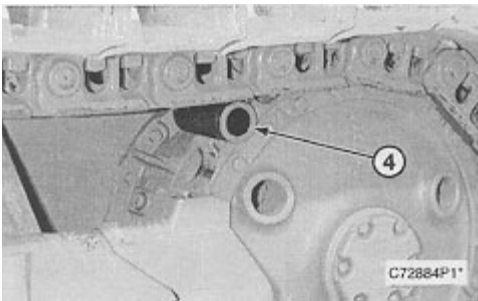
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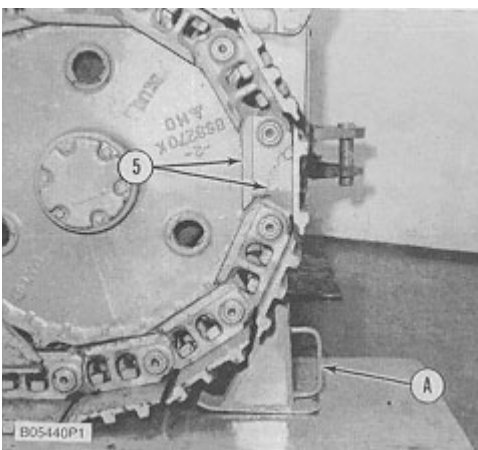
2. Loosen the track as follows:

a. Turn relief valve (2) one turn counterclockwise to permit grease to be released from the vent hole below the relief valve. If the track does not loosen, go to Step b.

b. Turn fill valve one turn counterclockwise to permit grease to be released from the vent hole below the fill valve. If the track still does not loosen, start the machine and move it forward and backward. If grease is still not released, go to Step c.



c. Install slug (4) that is **76.2 mm (3 in)** in diameter **63.5 mm (2.5 in)** long between the track and sprocket segment. Move the machine to the rear so the track will be pushed up by the bar. This will put tension on the track and move the front idler and track adjuster to the rear against the force of the recoil spring. This will push grease out of the vent holes.



3. Start the machine and move split master link (5) to the rear of the machine. Install tool (A) under the grouser of the shoe just under the master shoe. Move the machine slowly backward until the track is tight against tool (A).



Suggest:

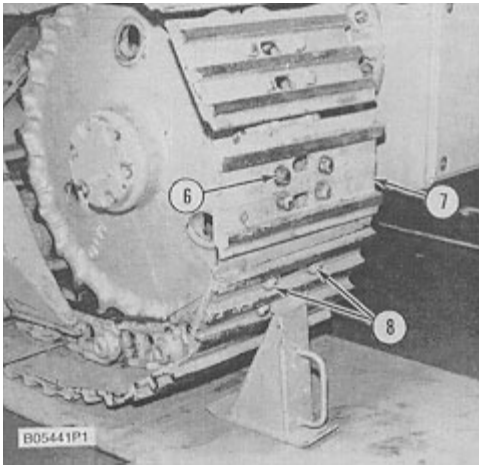
If the above button click is invalid.

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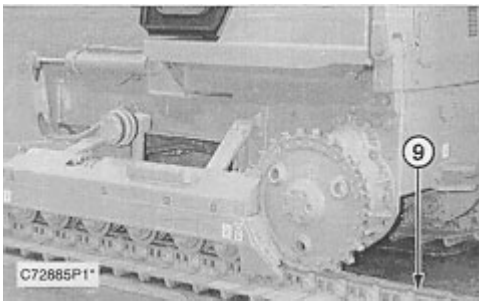
first, and then click the above link

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4. Remove two bolts (8) that hold the shoe below the master shoe. The bolts must be removed to install the tooling for connection of the tracks.
5. Remove four bolts (6) and remove master shoe (7).



⚠ WARNING

Keep away from the front and rear of the machine when the track is pushed off of the track carrier roller and idler.

6. Start the machine and drive slowly forward to remove track (9).

Connection Of Tracks

Tools Needed		A	B	C
1P3532	Track Block Assembly	1		
1P3545	Chain Coupling Tool Group		1	
5P9736	Link Bracket			1

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