



# Service Repair Manual

## **Models**

# D7R II TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D7R II TRACK-TYPE TRACTOR AFG

Configuration: D7R Track-Type Tractor AFG00001-UP (MACHINE) POWERED BY 3176C Engine

## Disassembly and Assembly

### D7R and D7R Series II

### Track-Type Tractors

### Power Train

Media Number -REN3657-02

Publication Date -01/02/2009

Date Updated -18/02/2009

i01602141

## Final Drive - Remove

SMCS - 4050-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8T-3045	Adapter	1
B	8T-3207	Lifting Bracket	1
	5P-8622	Shackle	1
	1D-4615	Bolt (3/4 inch by 10 by 5 1/2 inch)	2
	1B-4331	Nut (3/4 inch by 10)	2
	5P-8248	Washer	4

### Start By:

- A. Separate the track. Refer to Disassembly and Assembly, "Track - Separate".

**Note:** The planetary carriers of the final drives can be removed directly from the machine. Refer to Disassembly and Assembly, "Final Drive Planetary Carrier (In Chassis) - Remove".



**WARNING**

**Without the sun gear in place, the brakes are ineffective. Personal injury or death could result. Provide other means to hold or stop the machine.**

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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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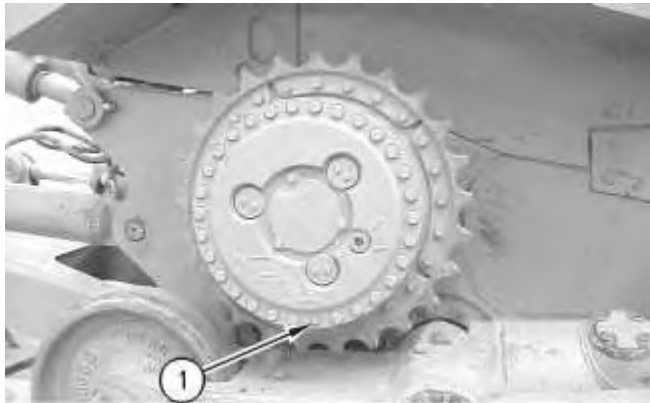


Illustration 1

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1. Position drain plug (1) of the final drive toward the bottom. Remove the drain plug and drain the oil from the final drive. The capacity is approximately 11.4 L (3 US gal).
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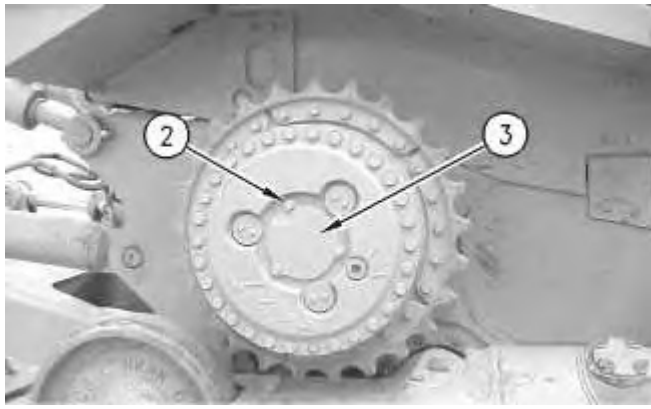


Illustration 2

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2. Remove bolts (2) and remove cover (3) from the final drive.

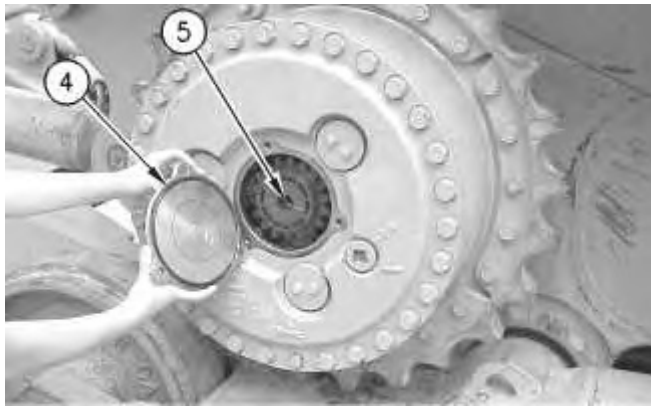


Illustration 3

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3. Remove retainer (5) from the sun gear of the final drive. Remove O-ring seal (4) from the cover.

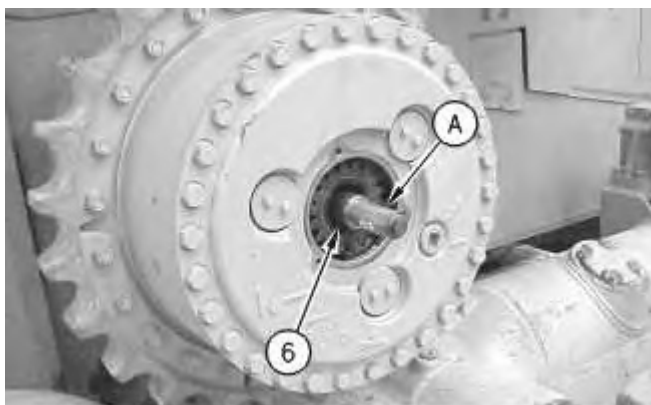


Illustration 4

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4. Use Tooling (A) to remove outer axle (6) .

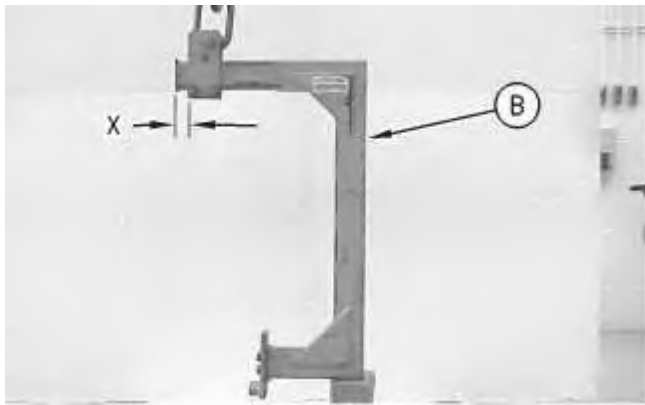


Illustration 5

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5. Adjust the top bracket of Tooling (B) until Dimension (X) is 38 mm (1.5 inch). Adjust the lower plate so that the spacers are oriented away from the vertical leg of the tool.

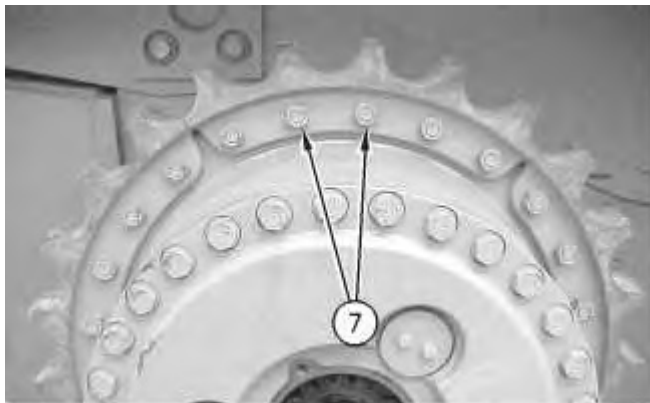


Illustration 6

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6. Remove bolts (7) from the sprocket segment.
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