



# Service Repair Manual

## **Models**

# D7R TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D7R TRACK-TYPE TRACTOR 6ER

Configuration: D7R TRACTORS / POWERSHIFT / 6ER00001-UP (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly

### D7R Track-Type Tractor

#### Power Train

Media Number -SEN1706-02

Publication Date -01/01/2004

Date Updated -15/01/2004

i01008085

## Final Drive Planetary Carrier (In Chassis) - Remove

SMCS - 4092-011

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	8T-3045	Adapter	1
	FT-1952	Installer	1
B	1P-0068	Tapered Cone	1
	1P-0069	Adapter Head	1
	1P-0071	Jaw	3
	FT-0732	Stud	1
	1A-8285	Nut (5/16 inch by 24)	3
	6H-0187	Bolt (5/16 inch by 24 by 1 1/8 inch)	3
	1P-5546	Crossbar	1
	5P-8247	Washer	1
	1B-4206	Nut (5/8 inch by 18)	1
C	3B-2968	Bolt (3/4 inch by 10 by 3 1/2 inch)	3
D	5P-8622	Shackle	1
	8T-3207	Lifting Bracket	1

	1A-8063	Bolt (3/4 inch by 10 by 2 1/2 inch )	2
	5P-8248	Washer	6
	1B-4331	Nut (3/4 inch by 10)	2
<b>E</b>	6V-3160	Cylinder	1
	9U-6600	Manual Pump	1
<b>F</b>	1P-1837	Bearing Puller	2
<b>G</b>	1P-0520	Driver	1

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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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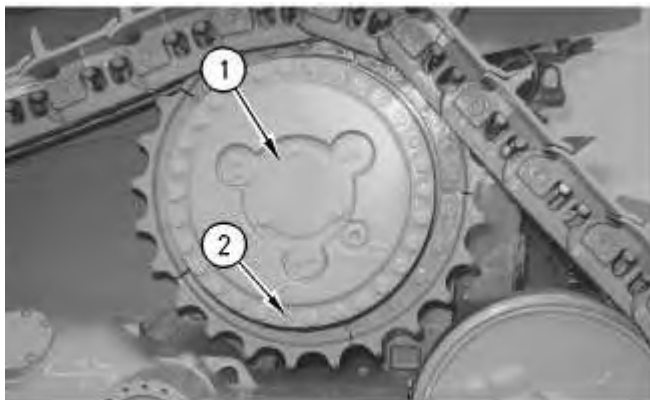


Illustration 1

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1. Position drain plug (2) of the final drive toward the bottom. Remove the drain plug, and drain the oil from the final drive.
2. Remove the three bolts and cover (1) from the final drive. Remove the O-ring seal from cover (1) .

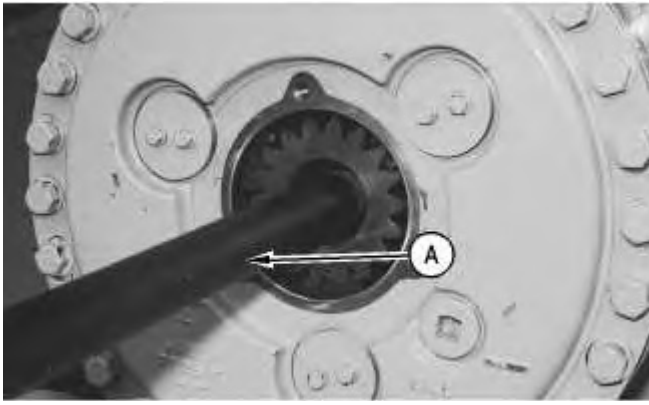


Illustration 2

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3. Remove the retainer from the sun gear of the final drive.
4. Use Tooling (A) in order to remove the outer axle.

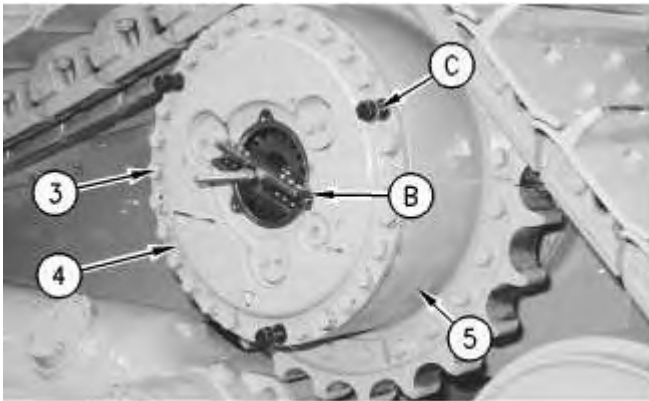


Illustration 3

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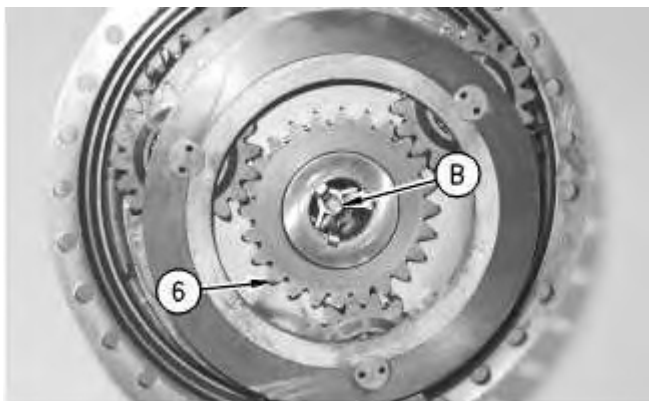


Illustration 4

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5. Install Tooling (B) in order to hold inner sun gear (6) in place.

**Note:** This double reduction unit contains two sun gears. The inner sun gear must be held in place with the Tooling when the planetary carriers are removed.

6. Remove three equally spaced bolts that hold planetary carrier (4) to hub (5). Install Tooling (C) in place of the three bolts.

**Note:** Tooling (C) must be installed in order to hold the planetary carrier in place.

7. Remove the remaining 26 bolts (3) that hold the planetary carrier to the hub.

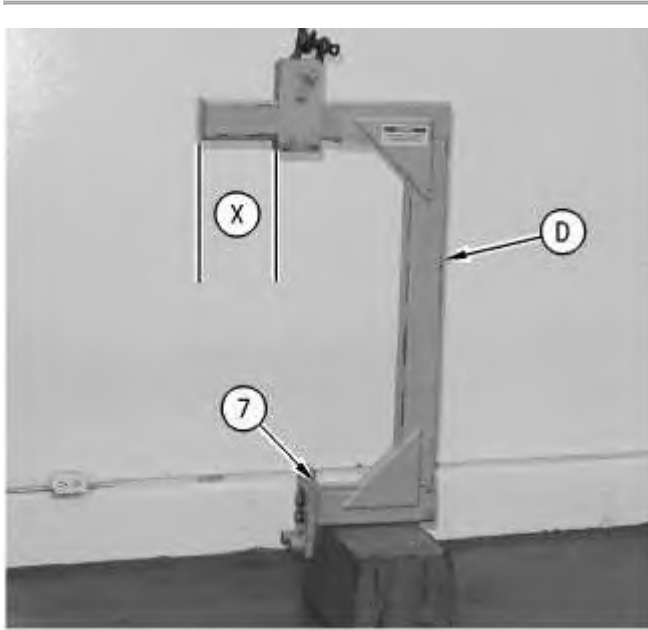
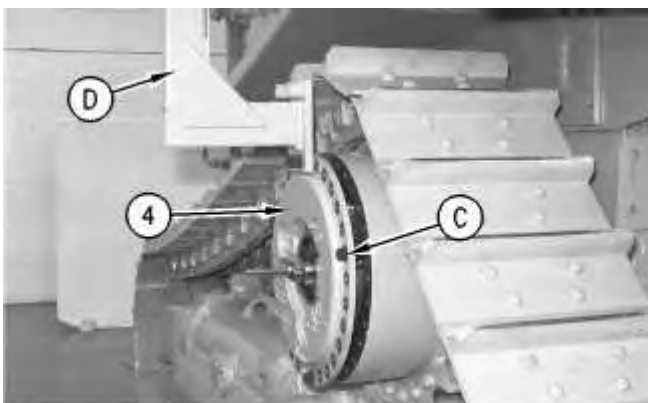


Illustration 5

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8. Adjust the upper bracket on Tooling (D) so that Dimension (X) is 203 mm (8 inch). Adjust the lower plate (7) of the hanger so that the spacers are oriented toward the vertical leg of the bracket. See Illustration 5.



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