



Service Repair Manual

Models

D7R TRACK-TYPE TRACTOR

Product: TRACK-TYPE TRACTOR

Model: D7R TRACK-TYPE TRACTOR DSH

Configuration: D7R TRACK-TYPE TRACTOR STD, XR, LGP DSH00001-UP (MACHINE) POWERED BY C9 Engine

Disassembly and Assembly D7R Track-Type Tractor Power Train

Media Number -UENR0042-02

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i02530834

Final Drive Planetary Carrier (In Chassis) - Remove

SMCS - 4092-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	FT-1952	Installer	1
	8T-3045	Adapter	1
B	1P-0068	Tapered Cone	1
	1P-0069	Adapter Head	1
	1P-0071	Jaw	3
	FT-0732	Lifting Channel	1
	1A-8285	Nut (5/16 inch - 24)	3
	6H-0187	Bolt (5/16 inch - 24 by 1 1/8 inch)	3
	1P-5546	Crossbar	1
	5P-8247	Washer	1
	1B-4206	Nut (5/8 inch - 18)	1
C	3B-2968	Bolt (3/4 inch - 10 by 3 1/2 inch)	3
D	5P-8622	Shackle	1
	8T-3207	Lifting Bracket	1
	1A-8063	Bolt (3/4 inch -10 by 2 1/2 inch)	2

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

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

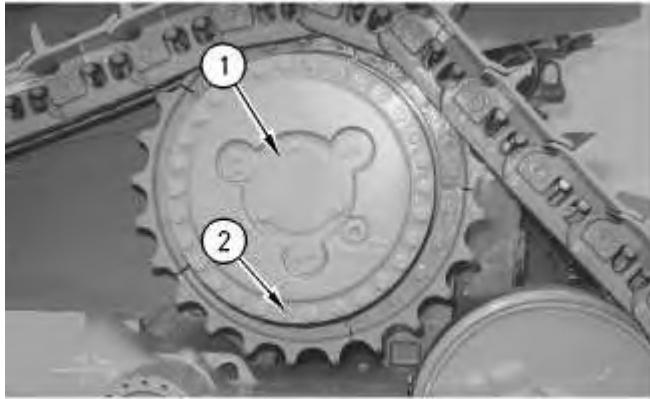


Illustration 1

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1. Position the final drive drain plug (2) on the bottom of the final drive, as shown. Remove drain plug (2), and drain the oil from the final drive into a suitable container for storage or disposal. The capacity of the final drive is approximately 11.4 L (3 US gal).
 2. Remove bolts and cover (1) from the final drive. Remove the O-ring seal from cover (1).
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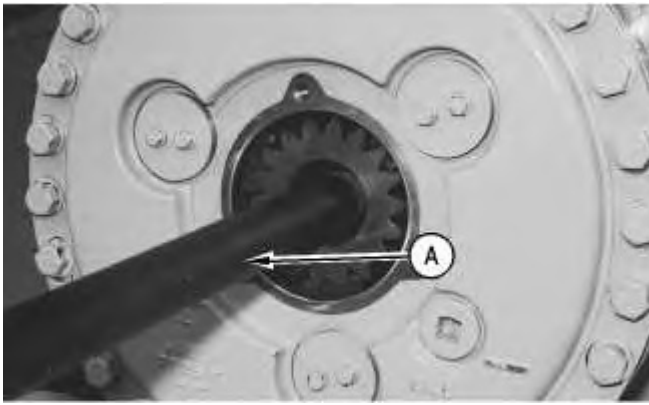


Illustration 2

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

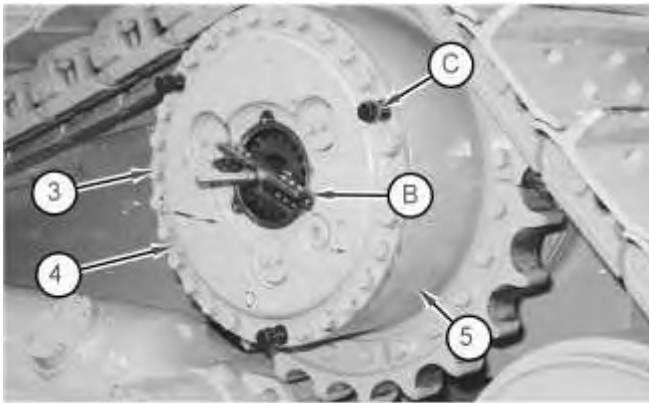


Illustration 3

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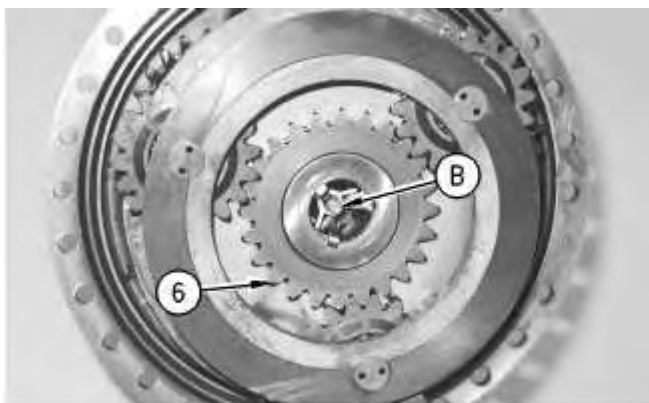


Illustration 4

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Note: This final drive contains two sun gears. The inner sun gear must be held in place with Tooling (B). This will prevent the inner sun gear from falling out of the final drive when the planetary carriers are removed. Steps 5 and 6 are done in order to hold the inner sun gear in place.

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

Note: Tooling (C) should be installed 25.4 mm (1.00 inch) in order to hold the planetary carrier.

6. Remove three equally spaced bolts that hold planetary carrier (4) to hub (5). Install Tooling (C) in the place of the three bolts, as shown.
7. Remove remaining bolts (3) that hold the planetary carrier to the hub.

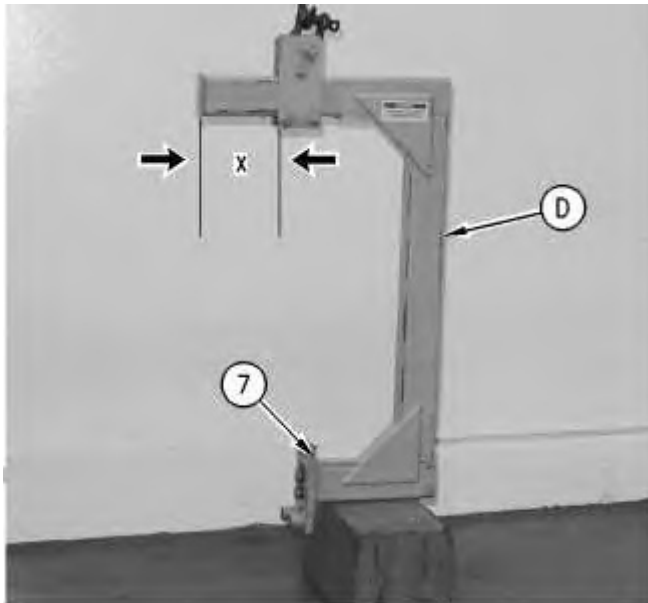


Illustration 5

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8. Adjust the upper bracket on Tooling (D) so that Distance (X) is 203 mm (8.0 inch). Install lower plate (7). Install the lower plate so that the spacers are upward and so that the spacers are toward the leg of the bracket.

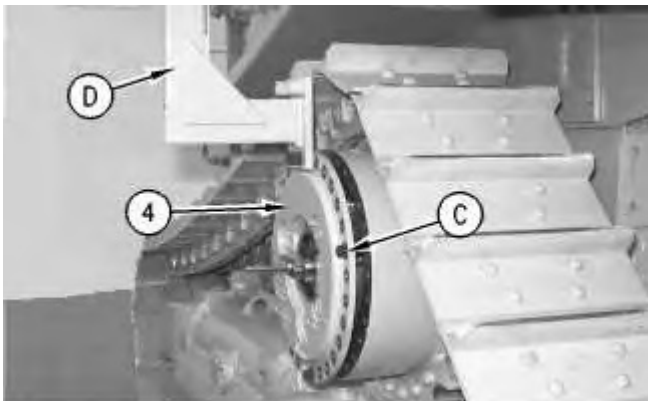


Illustration 6

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9. Use a pry bar, and move planetary carrier (4) out of the hub. Pry out on the planetary carrier until the movement is stopped by Tooling (C).

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