



# Service Repair Manual

## **Models**

# D6R TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D6R TRACK-TYPE TRACTOR 7KN

Configuration: D6R Track-Type Tractor Differential Steering XR 7KN00001-UP (MACHINE) POWERED BY 3306 Engine

## Disassembly and Assembly D6R TRACK-TYPE TRACTOR POWER TRAIN

Media Number -SEN9496-02

Publication Date -01/11/2004

Date Updated -23/07/2018

SEN94960030

### Transmission (Power Shift)

SMCS - 3150-015; 3150-016

### Disassemble Transmission (Power Shift)

Tools Needed	A	B	C	D	E	F	G
1P-2420 Transmission Repair Stand	1						
138-7575 Link Bracket		3					
5P-5197 Retaining Ring Pliers			1				
5P-4758 Retaining Ring Pliers				1			
FT-0947 Spring Compressor					2		
2D-1201 Forged Eyebolt 5/8						2	
FT-0833 Spring Compressor							2

Tools Needed	H	J
138-7575 Link Bracket	2	
3K-4897 Spring Pins, 1/8 in		8

**NOTE:** The Transmission Modulating Valves need to be recalibrated when any of the following is performed:

Transmission Modulating Valve and/or Solenoid is replaced

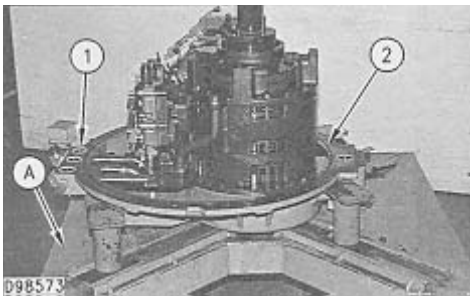
Transmission is serviced or replaced

ECM is replaced

**NOTE:** For Calibration procedure reference Power Train Electronic Control System Manual SENR8367

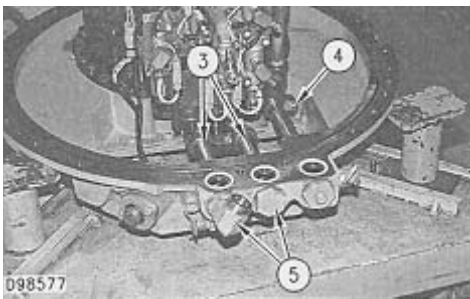
Start By:

**a.** separate transmission and bevel gear



**1.** Put transmission in position on Tooling (A). Put alignment marks on all of the housings for assembly purposes.

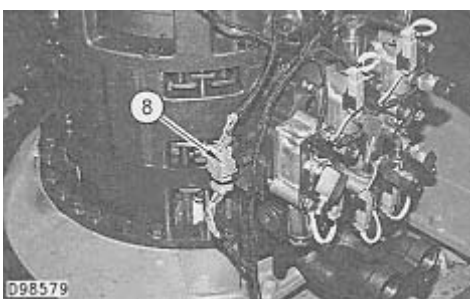
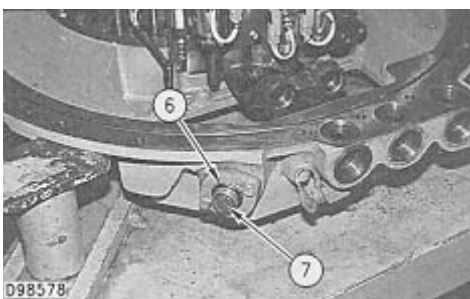
**2.** Remove four small O-ring seals (1) and large O-ring seal (2) from the transmission cover.



**3.** Remove two plugs and fitting (5).

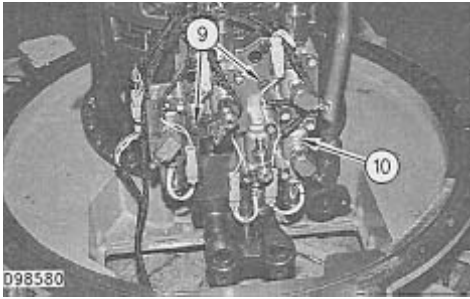
**4.** Remove three bolts and retainers (4).

**5.** Remove three tubes (3) and the seals from the tubes.

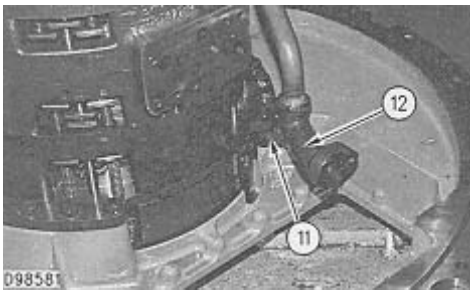


6. Remove locknut (6) and push connector (7) out of the case.

7. Disconnect electrical connector (8).

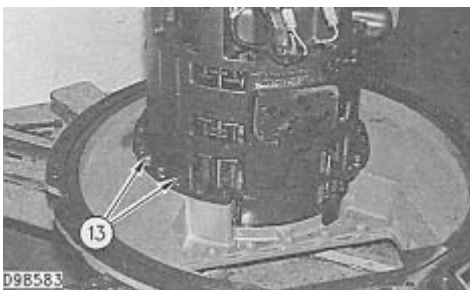


8. Remove four 9/16 in Headed Bolts (9) and control valve (10).



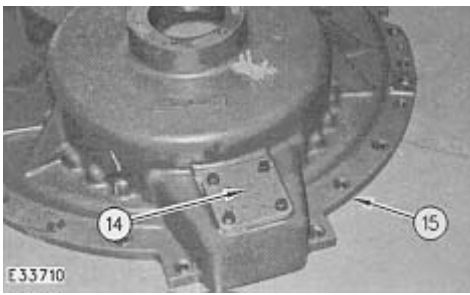
9. Remove bolt (11) and tube assembly (12).

10. Remove the O-ring seal from tube assembly (12).



11. The weight of the planetary group is 341 kg (750 lb). Install Tooling (B), and attach a hoist as shown.

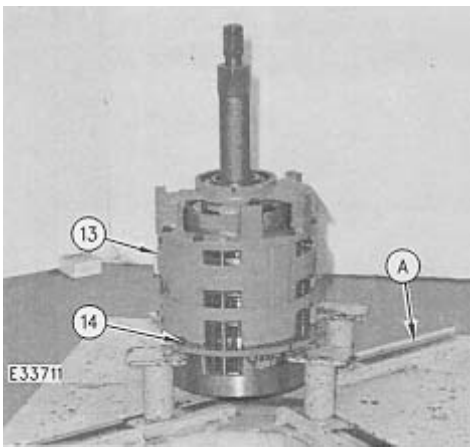
12. Remove 21 bolts (13) that hold the planetary group to the transmission cover. Remove the planetary group.



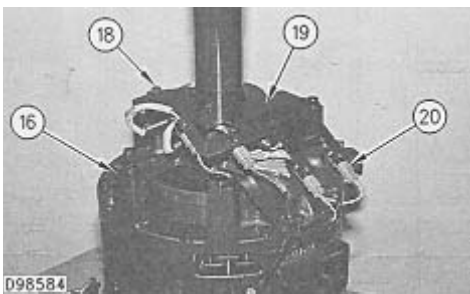
**13.** The weight of transmission cover (15) is 100 kg (220 lb). Install Tooling (B) to the transmission cover, and fasten a hoist. Remove the transmission cover from Tooling (A).

**14.** Remove suction screen cover (14) and the O-ring seal from the transmission cover.

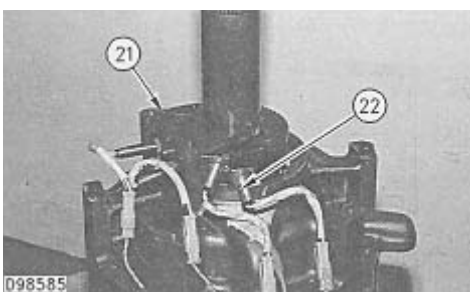
**15.** Remove the suction screen from transmission cover (14).



**16.** Put transmission planetary group (16) in position on Tooling (A). Use four bolts and nuts (17) to fasten the planetary group to Tooling (A).



**17.** Remove four electrical connectors (20) from the clips on the back side of plate assembly (19). Remove three bolts and washers (18) and plate assembly (19) from the planetary group (16).



**18.** Remove guard and bracket (21) with four sensors (22) from the planetary group.

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