

Product: TRACK-TYPE TRACTOR

Model: D6H TRACK-TYPE TRACTOR 3ED

Configuration: D6H TRACK-TYPE TRACTOR / DIRECT DRIVE / 3ED04083-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly D6H TRACTOR POWER TRAIN

Media Number -SEN3242-03

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SEN32420031

Transmission (Direct Drive)

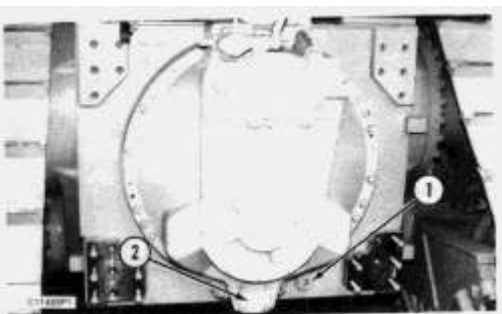
SMCS - 3050-012; 3050-011; 3060-015; 3060-016

Remove Transmission (Direct Drive)

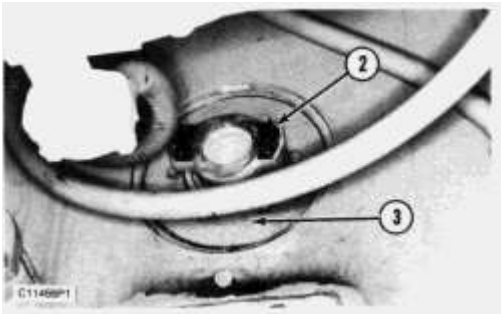
Tools Needed		A	B	C
FT1952	Axle Removal Tool	1		
FT1897	Adapter		1	
5P9736	Link Bracket		3	
8S9906	Ratchet Puller			2
8S9089	Bolt		1	
1F7958	Nut		3	
0S1595	Bolt		2	
5P8245	Washer		2	

Start By:

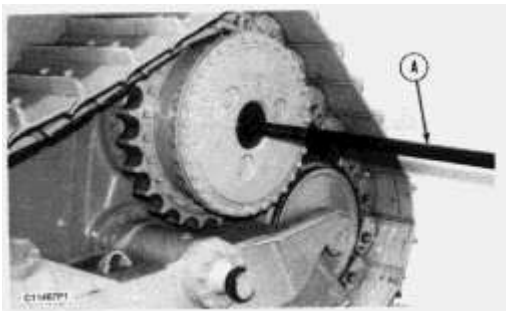
- a. remove main drive shaft
- b. remove gear shift controls



1. Remove plug (1) from the bottom of the transmission and bevel gear case and drain the power train oil. Loosen the bolts that hold transmission suction screen cover (2) in place and drain the oil from the transmission case. Total oil drained will be approximately **129 liters (33.5 U.S. gal.)**. Install plug (1) and tighten the suction screen cover bolts.

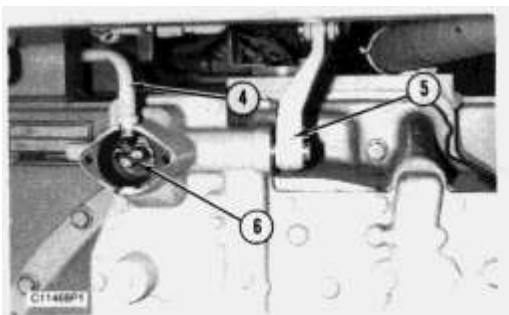


2. Remove drive shaft yoke (2). Use forcing bolts and remove retainer (3) and the O-ring seal from the transmission and bevel gear case.



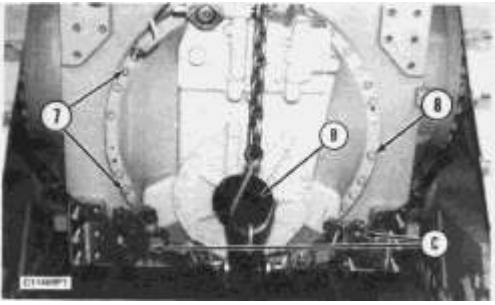
3. Remove the final drive cover and sun gear retainer from the final drive carrier.

4. Use tooling (A) and remove the inner and outer axle on each side of the machine.



5. Remove the cover and disconnect the two wires from the switch (6). Remove the clamp and move tube (4) out of the way.

6. Loosen bolt (5) and disconnect the linkage from the clutch control valve.



7. Remove the cover and gasket, and install tooling (B). Attach a hoist to tooling (B).
8. Attach tooling (C) to both roller frames and to tooling (B) as shown.

 **WARNING**

Because of the internal ramps, the transmission must roll down; it is necessary to use tooling (C) to control the transmission as it is separated from the transmission and bevel gear case. To prevent possible personal injury, it is necessary to make the transmission roll out slowly until it reaches the roller stops at the end of the tube assemblies.

 **WARNING**

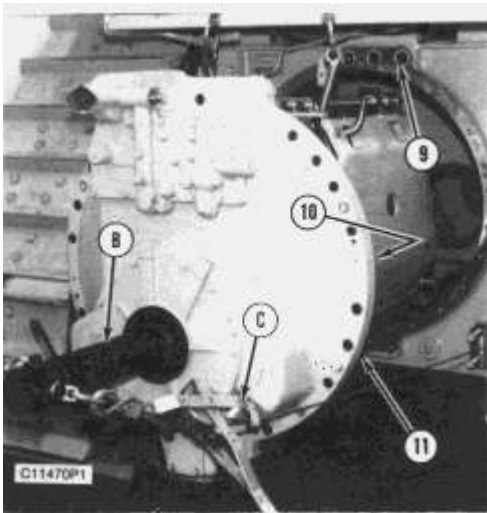
Four bolts (7) fasten the rear cover to the transmission. To prevent possible personal injury, four bolts (7) must be installed to remove the transmission.

9. Remove the 21 bolts that hold the transmission to the transmission and bevel gear case. Four bolts (7) should not be removed because they hold the rear cover to the transmission.

10. The weight of the transmission is **955 kg (2100 lb)**. Use forcing screws if necessary, and separate the transmission from the transmission and bevel gear case. Use tooling (C) and the hoist and slowly roll the transmission out to the roller stops on the tube assemblies.

 **WARNING**

The transmission must be supported when the hoist is moved from the rear tube adapter [tooling (B)] to the top of the transmission. To prevent possible personal injury, make sure the support is on a solid footing so the transmission will not fall when the hoist is removed from tooling (B).



11. Put a floor jack (9) or wood blocks in position to support the transmission. Lower the transmission onto the support.

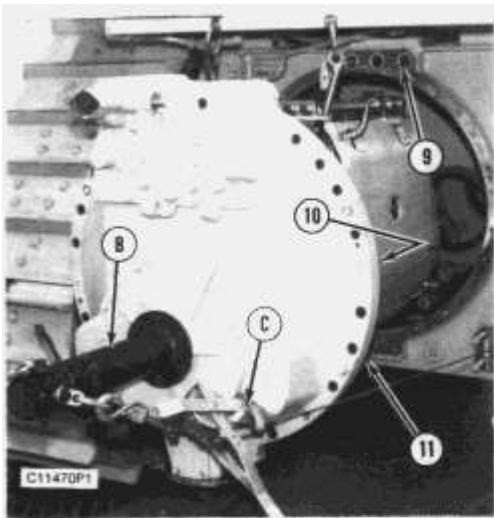
12. Remove the hoist from tooling (B). Attach the hoist to the top of the transmission. Remove tooling (C). Remove the transmission from the tube assemblies.

13. Remove large diameter O-ring seal (10) from the outer diameter of the transmission case. Remove four O-ring seals (9) and (11) from the transmission and bevel gear case.

Install Transmission

Tools Needed		A	B	C
FT1952	Axle Removal Tool	1		
FT1897	Adapter		1	
5P9736	Link Bracket		3	
8S9906	Ratchet Puller			2
8S9089	Bolt		1	
1F7958	Nut		3	
5P8245	Washer		2	
0S1595	Bolt		2	

1. Put clean oil on all of the O-ring seals.

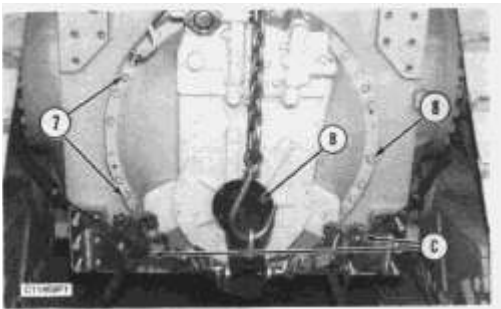


2. Install O-ring seal (10) onto the transmission. Install four O-ring seals (9) and (11) onto the transmission and bevel gear case.
3. Attach a hoist to the top of the transmission.
4. Put the transmission in position so the rollers are on the tube assemblies.

 **WARNING**

The transmission must be supported when the hoist is moved from the top of the transmission to the rear tube adapter [tooling (B)]. To prevent possible personal injury, make sure the support is on a solid footing so the transmission will not fall when the hoist is removed from the top of the transmission.

5. Put a floor jack or wood blocks in position to support the transmission. Lower the transmission onto the support.
6. Install tooling (B) onto the transmission cover. Attach tooling (C) to both roller frames and tooling (B).

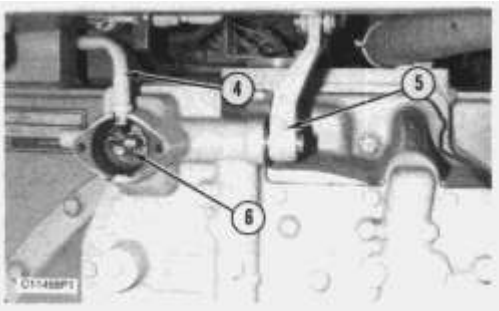


7. Remove the hoist from the top of the transmission and attach it to tooling (B).
8. Keep the transmission level with the hoist. Pull the transmission evenly into the transmission and bevel gear case with tooling (C).

NOTE: It may be necessary to pull the transmission into the pilot diameter with longer bolts.

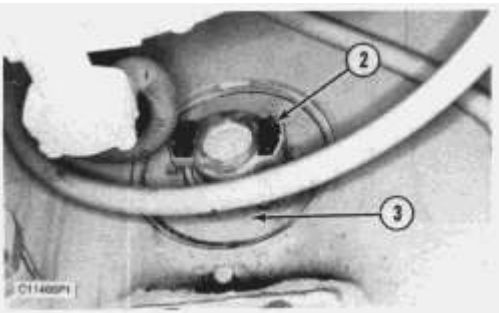
9. Install bolts (8) that hold the transmission into the transmission and bevel gear case.

10. Remove tooling (C). Remove tooling (B) and install the cover and gasket on the rear of the transmission.



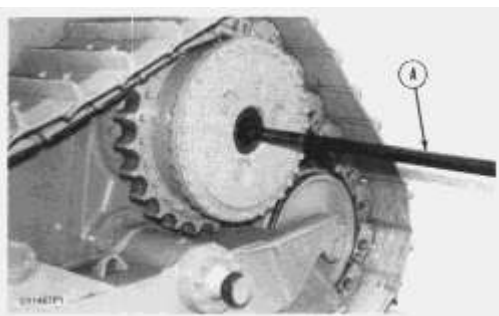
11. Put tube (4) in position. Connect the wires to switch (6) and install the cover. Install the clamp that holds tube (4) in position.

12. Align the key on the shaft with the slot in the lever and install it. Tighten bolt (5).



13. Use two guide bolts and put the O-ring seal and retainer (3) in position. Install the six bolts and tighten them to a torque of $59 \pm 7 \text{ N}\cdot\text{m}$ ($44 \pm 5 \text{ lb ft}$).

14. Install drive shaft yoke (2).



15. Use tooling (A) and install the inner and outer axles on both sides. Make sure the first inner axle is not installed too far, or the opposite side inner axle will not go in far enough.

16. Install the O-ring and the cover on the final drive.

17. Fill the power train system with oil. See the Operation And Maintenance Guide for the correct oil and capacity.

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