



# Service Repair Manual

## **Models**

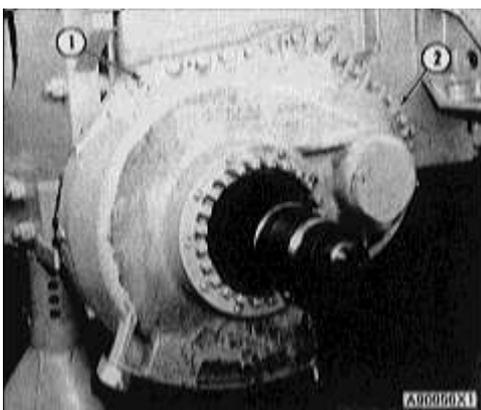
# D7G TRACK-TYPE TRACTOR

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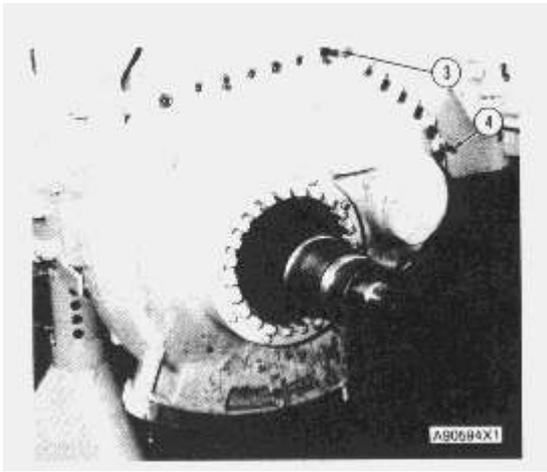
Tools Needed		A	B	C	D	E	F
5P9736	Link Bracket	1					
1P3075	Puller Assembly		1				
8B7548	Puller Assembly			1			1
8H684	Ratchet Box Wrench			1			1
8B7554	Bearing Cup Puller Attachment			1			
FT1442	Lift Bracket				1		
	Plate 6 7/8" (174.6 mm) Outside Diameter x 1 1/2" (38.1 mm) Thick					1	
5P3100	Pump Group (or electric)					1	
5F7343	Bearing Puller Attachment					1	
8B7560	Step Plate					1	
1P820	Puller Group					1	
1H3107	Puller Assembly					1	
1H3108	Leg					2	
8B7550	Leg						2
8B7551	Bearing Puller Attachment						1

START BY:

a) remove sprocket assemblies



1. Remove bolts (1) that hold final drive case (2) in position.



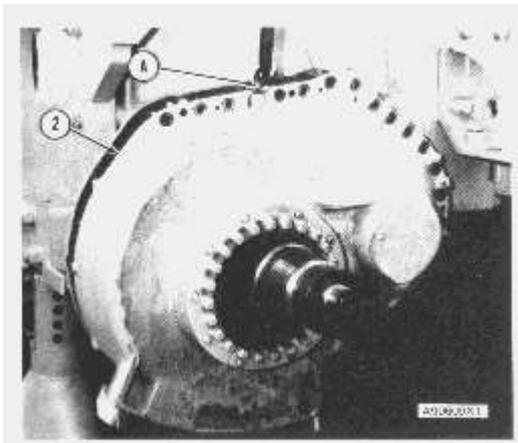
2. Install two 5/8"-11 NC guide bolts (3). Install three 1/2"-13 NC forcing screws (4).
3. Tighten the forcing screws evenly until the case is approximately .25 in. (6.4 mm) away from the steering clutch case.
4. Install a piece of wire around the guide pins to hold the idler pinion in place.

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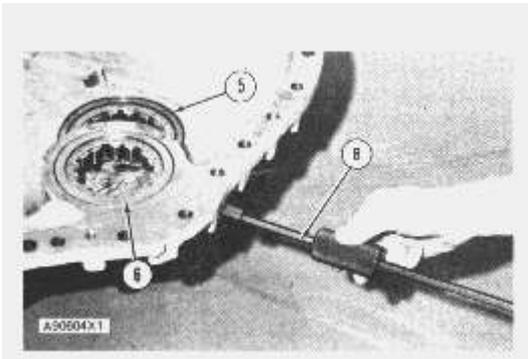
### NOTICE

**The wire is to keep the planet carrier in position so it will not fall from the steering clutch case when the final drive case is removed.**

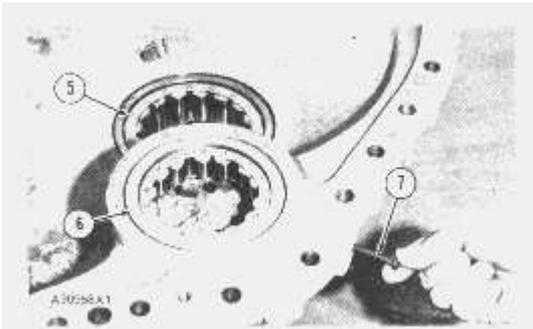
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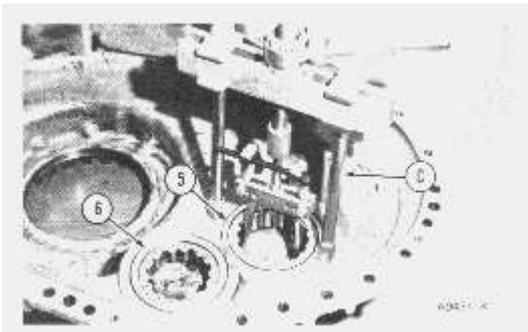
5. Tighten the forcing screws until tool (A) and a hoist can be fastened to final drive case (2). Remove final drive case (2). The weight is 280 lb. (127 kg.)



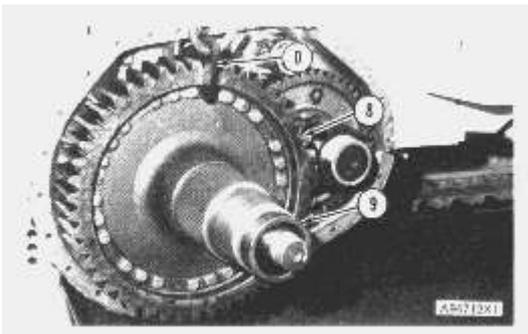
6. Remove the plugs for the dowels that hold race and roller assemblies (5) and (6) in place with tooling (B).



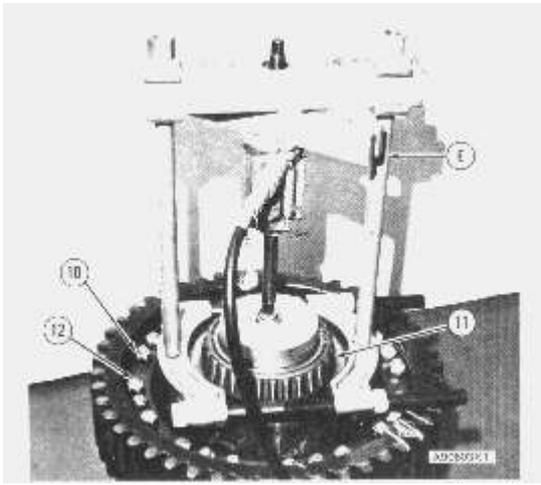
7. Remove the dowel for race and roller assembly (6) with a 10-32 screw (7). Remove the dowel for race and roller assembly (5) with a 1/4"-20 NC bolt.



8. Use tooling (C) and remove race and roller assemblies (5) and (6) from the final drive case.



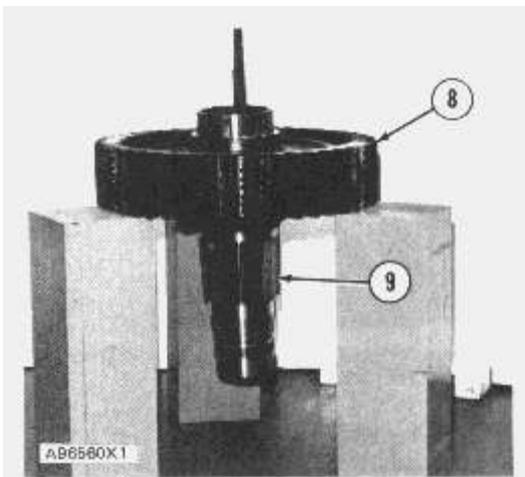
9. Install tool (D) on gear (8). Fasten a hoist. Remove gear (8) and hub (9) from the sprocket shaft. Put the gear and hub on wood blocks. The weight of the gear and hub is approximately 350 lb. (159 kg)



Typical Example

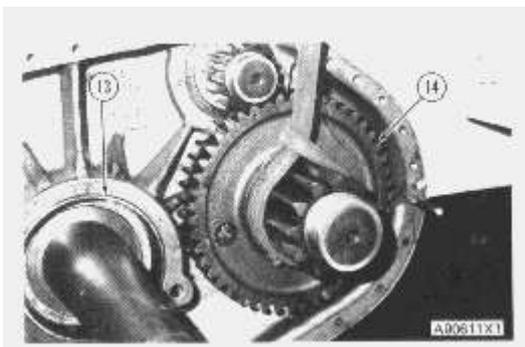
**10.** Remove bearing cone (11) from the hub with tooling (E).

**11.** Remove nuts (10) and locks from bolts (12). Remove bolts (12) with a soft punch and hammer.



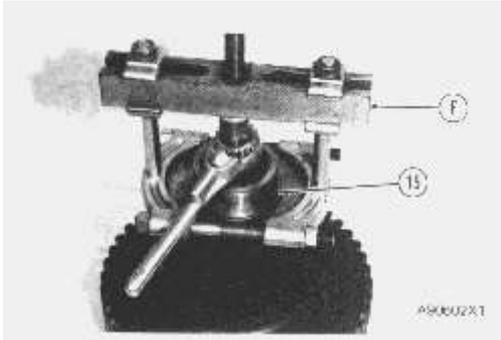
Typical Example

**12.** Use a nylon strap and a pin or bolt with a length that is longer than the inside diameter of the hub to fasten a hoist to the hub. Remove hub (9) from gear (8). The weight is 218 lb. (99 kg)



**13.** Remove bearing cup (13) if necessary.

14. Remove the wire from the gear and pinion. Fasten a hoist and remove gear (14) and the pinion from the steering clutch case. The weight is 120 lb. (54 kg).



15. Remove bearing race (15) with tooling (F) from the pinion shaft.

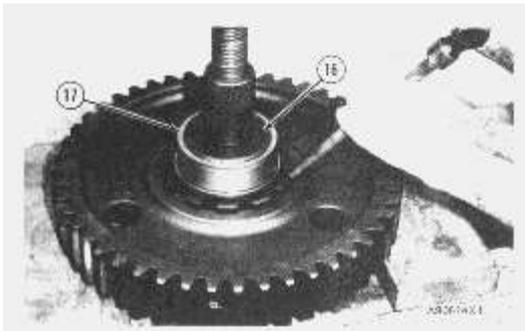
**NOTE:** Step 16 is for later models only with a two piece pinion and gear assembly. Earlier models, the pinion and gear are one piece.

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### NOTICE

**Too much pressure on the pinion shaft can cause damage to the gear.**

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Typical Example

16. Remove pinion shaft (16) from the gear as follows:

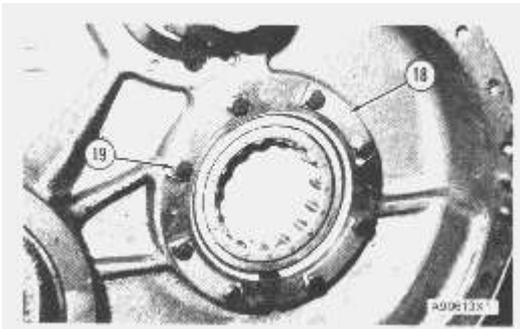
a) Put the gear and pinion shaft in a press as shown.

b) Put a small amount of pressure on the pinion shaft with the press. Push the ring in the groove on the pinion shaft with a hammer and punch. The ring will stay in the groove because of the pressure on the pinion shaft.

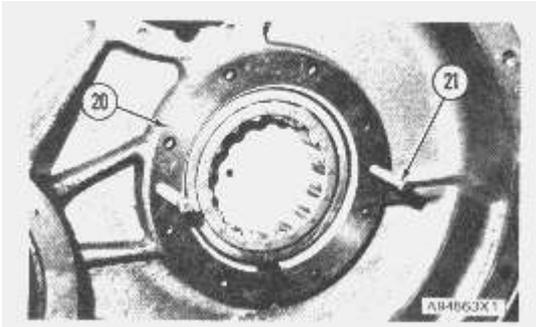
c) When the ring is completely in the groove, the pinion shaft will slide out of the gear. The weight of the pinion is 85 lb. (39 kg).

17. Remove bearing race (17) from the pinion shaft with tooling (F).

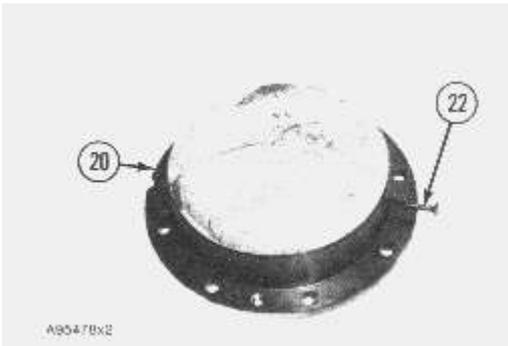
18. Drain the oil from the steering clutch and bevel gear case.



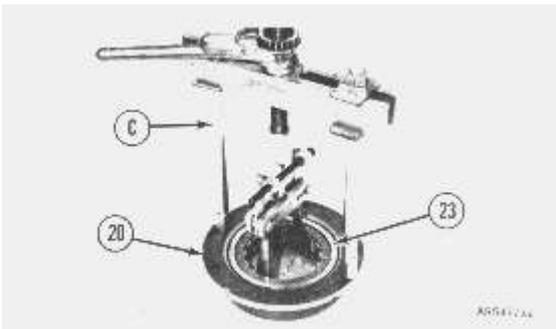
19. Bend locks (18) down. Remove bolts (19) and locks (18).



20. Install two 1/2"-13 NC forcing screws (21) in bearing cage (20). Tighten the forcing screws evenly and remove bearing cage (20) from the steering clutch case.



21. Use a 1/4"-20 NC bolt (22) to remove the dowel from cage (20).



22. Remove race and roller assembly (23) from bearing case (20) with tooling (C).

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