



Service Repair Manual

Models

307B Mini Hydraulic
Excavator

Product: MINI HYD EXCAVATOR

Model: 307B MINI HYD EXCAVATOR 5CW

Configuration: 307B TRACK-TYPE EXCAVATOR 5CW00001-UP (MACHINE) POWERED BY 4M40 ENGINE

Disassembly and Assembly 307B Excavator Machine Systems

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Final Drive and Travel Motor - Disassemble - Two Speed

SMCS - 4050-015; 4351-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
(A)	138-7573	Link Bracket	2
(B)	1U-7600	Puller Group	2
	3B-7255	Bushing	2
(C)	1U-9352	Engine Stand	1
	5P-0979	Adapter	1
	FT-1870	Adapter Assembly	1
	1U-9895	Crossbar	1
(D)	3H-0465	Plate	4
		19 mm (0.75 inch) Threaded Rod 254 mm (10 inch) Long	2
	8T-1757	Nut	4
(E)	1P-0510	Driver Group	1
(F)	1P-1858	Pliers	1
(G)	FT-1997	Strap	1
(H)	1P-0074	Slide Hammer Puller	1

(J)	1P-1861	Pliers	1
(K)	138-7575	Link Bracket	2

Start By:

- a. Remove the final drive and the travel motor. Refer to Disassembly and Assembly, "Final Drive and Travel Motor - Remove" in this manual.

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.

1. Thoroughly clean the outside of the travel motor and the final drive prior to disassembly.
2. Remove the sprocket from the final drive and the travel motor. The weight of the sprocket is approximately 23 kg (50 lb).
3. Put an alignment mark across the section of the travel motor and the final drive for assembly purposes. The parts must be reinstalled in the original locations of the parts.

NOTICE

Failure to follow the recommended procedure or the specified tooling that is required for the procedure could result in damage to components.

To avoid component damage, follow the recommended procedure using the recommended tools.

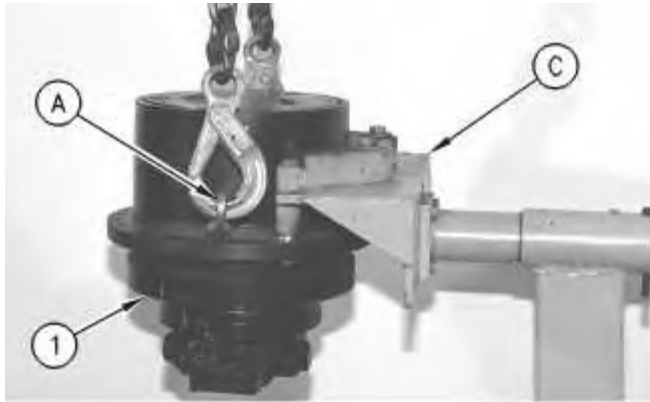


Illustration 1

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4. Fasten Tooling (A) and a hoist to the final drive and the travel motor (1), as shown. The weight of the final drive and the travel motor is 118 kg (260 lb).
5. Fasten the final drive and the travel motor to Tooling (C), as shown. Drain the oil from the final drive into a suitable container for storage or disposal. The capacity of the final drive is 1.7 L (.5 US gal).

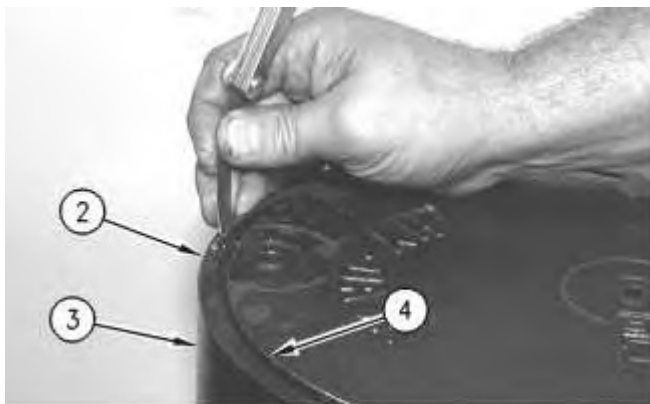


Illustration 2

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6. Use a 0.25 mm (.010 inch) feeler gauge to a 0.38 mm (.015 inch) feeler gauge. Remove ring (2) from the groove between cover (4) and final drive housing (3).

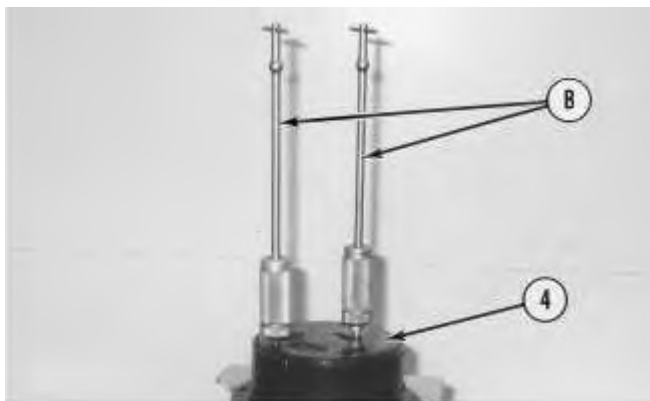


Illustration 3

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7. Remove the fill and drain plugs from cover (4) of the final drive. Install the bushing of Tooling (B) in each threaded hole in the cover.
8. Fasten the puller group of Tooling (B) to each bushing, as shown. Carefully remove cover (4) from the housing.

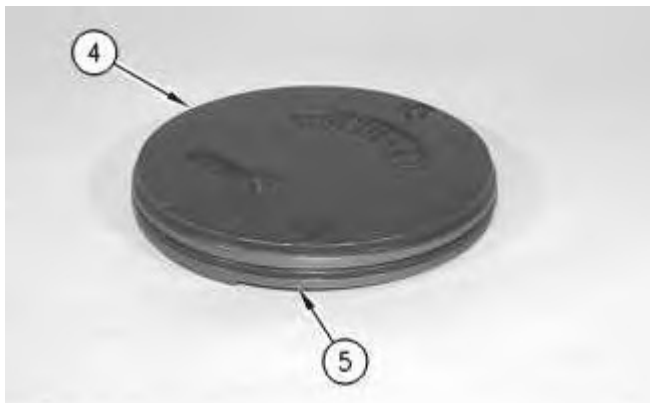


Illustration 4

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9. Remove O-ring seal (5) from cover (4).
10. Remove gear assembly (8) from the final drive.



Illustration 5

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11. Use Tooling (F) to remove three retaining rings (6). Remove three gears (7) from the shaft.
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