

Product: EXCAVATOR
Model: 225 EXCAVATOR 51U
Configuration: 225 EXCAVATOR 51U00590-02033 (MACHINE)

Disassembly and Assembly 225 EXCAVATOR VEHICLE SYSTEMS

Media Number -SEN7907-00

Publication Date -01/02/1979

Date Updated -12/10/2001

Pump Drive

SMCS - 3108-16; 3108-11; 3108-12; 3108-15

Remove Pump Drive

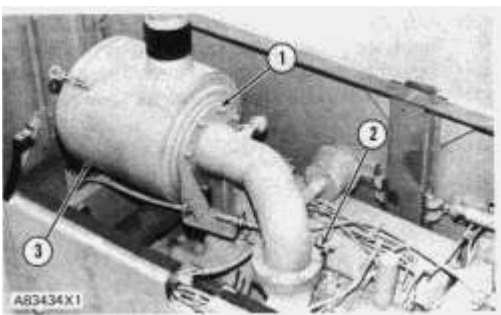
start by:

- a) remove muffler *
- b) remove axial piston pump (front)
- c) remove axial piston pump (rear)
- d) remove pilot system pump

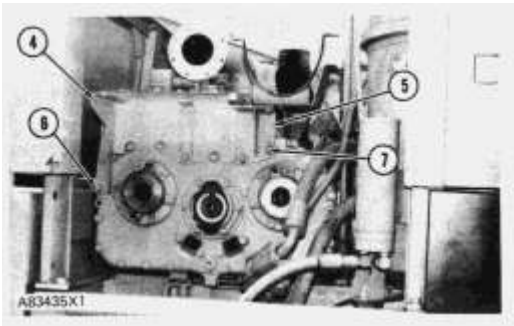
*Operation location is in ENGINE DISASSEMBLY AND ASSEMBLY section.

NOTE: If there has been no hydraulic system failure, see subject BLOCKER PLATES on Page 8.

1. Remove oil from the hydraulic tank and pump drive housing.

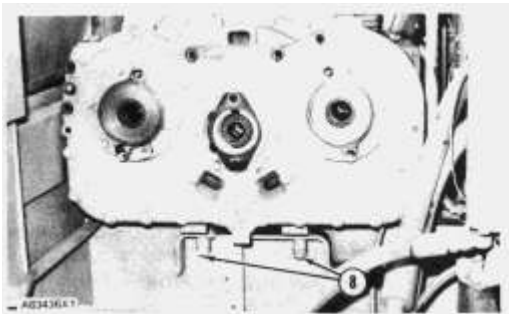


2. Disconnect governor control linkage (2) from the governor and bracket.
3. Remove the eight nuts (1) that hold air cleaner to the inlet pipe. Remove air cleaner (3).

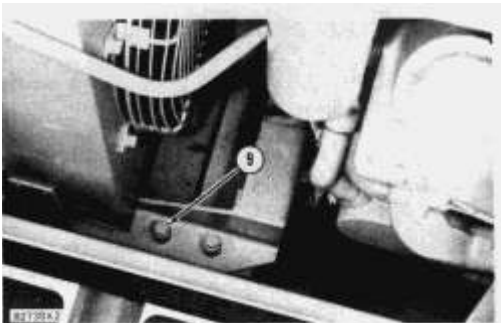


4. Remove bolts (7) and remove muffler bracket (5).

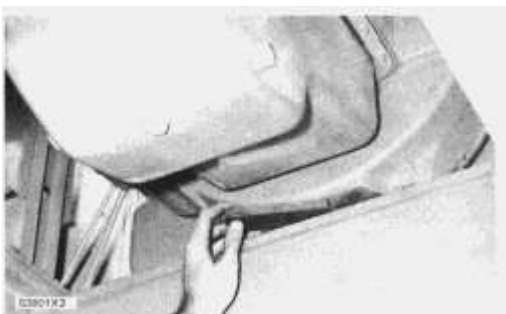
5. Remove bolts (6), then remove shield (4).



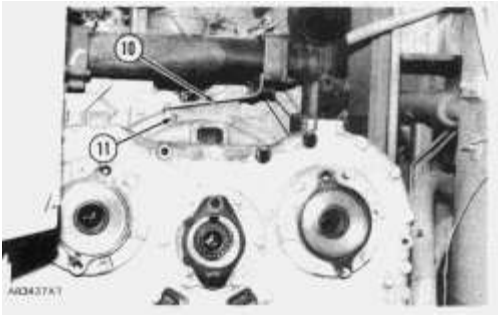
6. Remove the two bolts (8) that hold pump drive to frame.



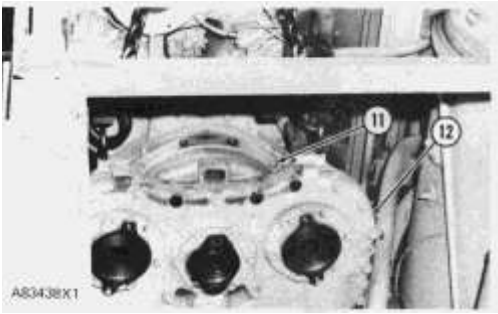
7. Loosen the four bolts (9) that hold the front engine support to the frame.



8. Lift the pump drive and install a .50 in. (12.7 mm) steel spacer between bottom of flywheel housing and top of frame. Lower the pump drive until flywheel housing is on the spacer.



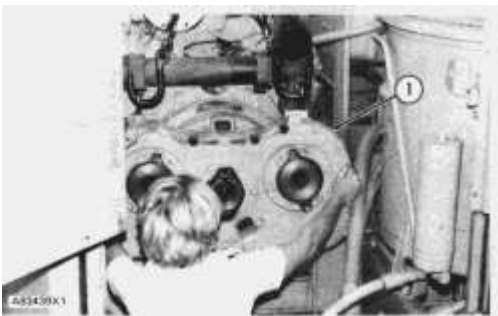
9. Remove bolts (11), then remove bracket (10) from crossover pipe.



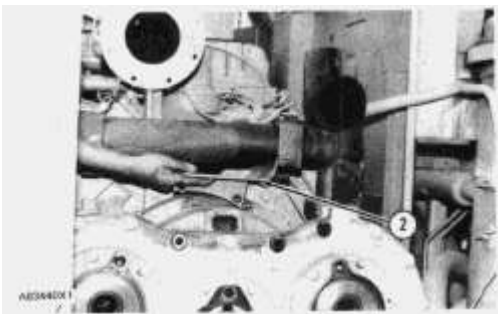
10. Install two 5/8" - 11 NC forged eyebolts in the pump drive housing, then fasten a hoist. Remove remainder of bolts (11). Remove pump drive (12). Weight of the pump drive is 430 lb. (194 kg).

Install Pump Drive

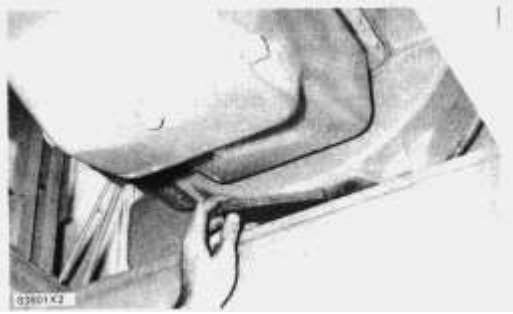
1. Install two 3/8"-16 NC guide pins in the flywheel housing.
2. Install two 5/8"-11 NC forged eyebolts in the pump drive housing, then fasten a hoist.



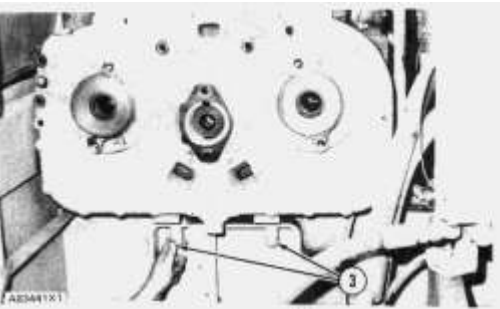
3. Put pump drive (1) in position on the flywheel housing and install the bolts that hold it.



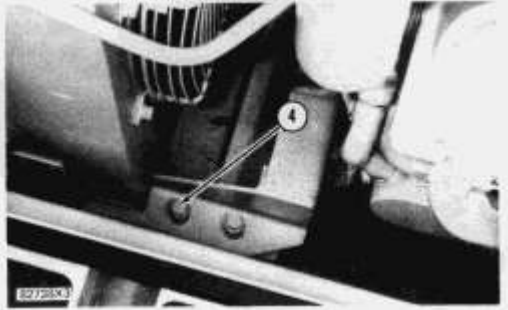
4. Install bracket (2) on crossover pipe with the bolts that hold it.



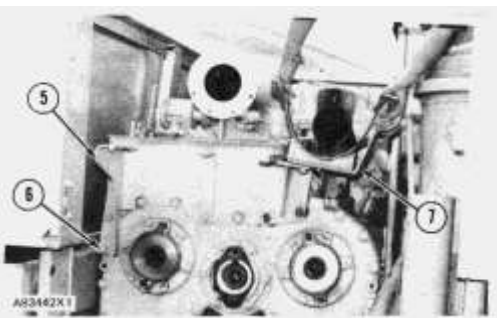
5. Lift the pump drive housing until the steel spacer between the frame and flywheel housing can be removed. Remove the spacer.



6. Install the two bolts (3) that hold pump drive to the frame. Tighten these bolts to a torque of 315 ± 50 lb.ft. (430 ± 70 N·m).

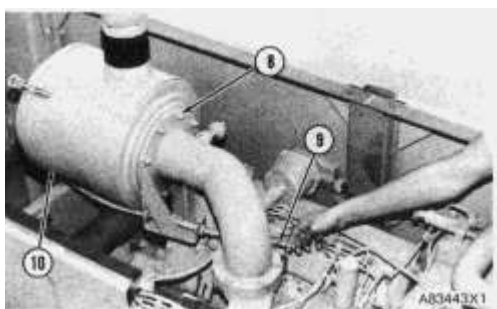


7. Install the four bolts (4) that hold engine supports to the frame. Tighten these bolts to a torque of 90 ± 15 lb.ft. (120 ± 20 N·m).



8. Install shield (5) with the bolts (6) that hold it. Tighten these bolts to a torque of 100 ± 10 lb.ft. (135 ± 14 N·m).

9. Install muffler bracket (7) with the bolts that hold it. Tighten these bolts to a torque of 100 ± 10 lb.ft. (135 ± 14 N·m).



10. Install air cleaner (10) with the eight nuts (8) that hold it to the inlet pipe. Tighten the nuts to a torque of 20 ± 5 lb.ft. (25 ± 7 N·m).

11. Connect governor control linkage (9) to the governor.

12. Fill the pump drive with oil to the correct level.

13. Fill the hydraulic tank with oil to the correct level.

end by:

a) install pilot system pump

b) install axial piston pump (rear)

c) install axial piston pump (front)

d) install muffler *

*Operation location is in ENGINE DISASSEMBLY AND ASSEMBLY section.

Disassemble Pump Drive

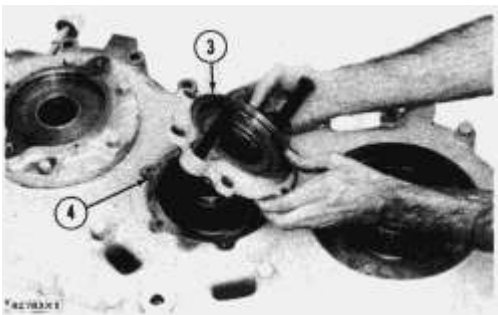
Tools Needed		A	B	C
8B7548	Puller Assembly	1	1	1
8B7554	Puller Assembly	1		1
1S5188	Leg	2		
8H684	Ratchet Box Wrench	1	1	1
8H663	Bearing Pulling Attachment		1	
8B7560	Step Plate		1	
8B7550	Leg		2	

start by:

a) remove pump drive

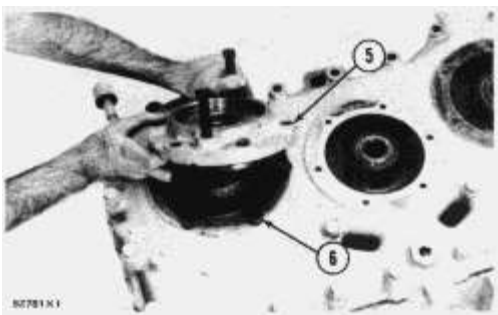


1. Remove the six bolts that hold bearing cage (1) to the cover. Install two 5/8"-11NC forcing screws and remove the bearing cage and shims (2).



2. Remove the six bolts that hold bearing cage (3) to the cover. Install two 5/8"-11NC forcing screws and remove the bearing cage and shims (4).

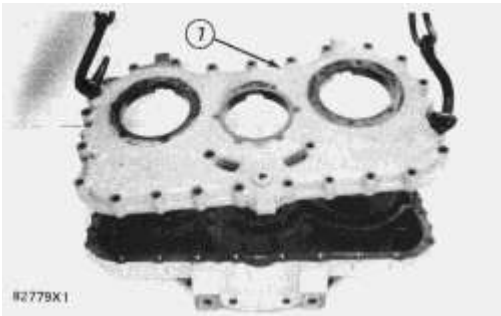
3. Remove the bearing cup from cage (3) with a hammer and punch. Remove the O-ring seal from the cage.



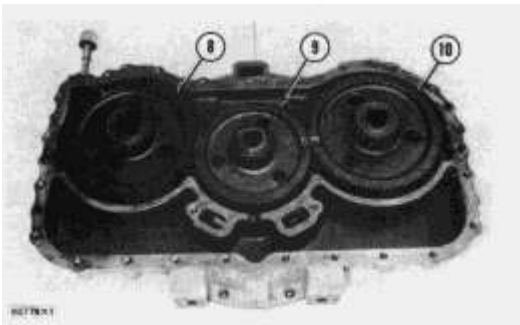
4. Remove the six bolts that hold bearing cage (5) to the cover. Install two 5/8"-11NC forcing screws and remove the bearing cage and shims (6).



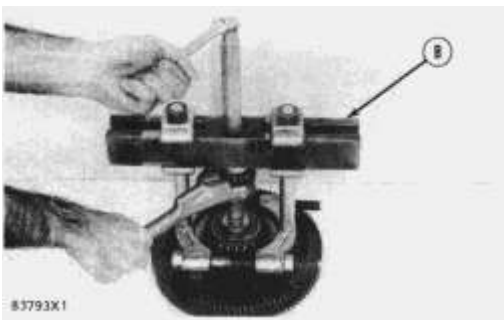
5. Remove the lip-type seals from cages (1) and (5). Install tooling (A) and remove the bearing cups from the cages. Remove the O-ring seals from the cages.



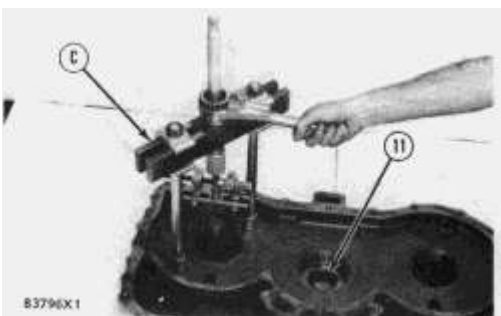
6. Remove the bolts that hold the cover to the case. Install two 1/2"-13NC forcing screws and loosen the cover from the case. Remove the forcing screws and install two 1/2"-13NC forged eyebolts in the cover. Fasten a hoist and remove cover (7) from the case. The weight of the cover is 90 lb. (41 kg).



7. Remove gears (8), (9), and (10) from the case.



8. Install tooling (B) and remove the bearing cones from each side of the three gears.



9. Install tooling (C) and remove the three bearing cups from the case.



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