



Service Repair Manual

Model

416D BACKHOE LOADER

Product: BACKHOE LOADER

Model: 416D BACKHOE LOADER CXP

Configuration: 416D Backhoe Loader CXP00940-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly

416D, 420D, 424D, 428D, 430D, 432D, 438D and 442D Backhoe Loaders Engine Supplement

Media Number -REN3573-02

Publication Date -01/09/2009

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i01437317

Engine and Transmission - Remove

SMCS - 1000-011; 1004-011; 3030-011; 3101-011

Removal Procedure

Start By:

- A. Remove the refrigerant condenser. Refer to Disassembly and Assembly, RENR3573, "Refrigerant Condenser - Remove and Install".
- B. Remove the hydraulic oil cooler. Refer to Disassembly and Assembly, RENR3573, "Hydraulic Oil Cooler - Remove and Install".
- C. Remove the radiator. Refer to Disassembly and Assembly, RENR3573, "Radiator - Remove and Install".
- D. Remove the fan guard. Refer to Disassembly and Assembly, RENR3573, "Fan Guard - Remove and Install".
- E. Remove the muffler. Refer to Disassembly and Assembly, RENR3573, "Muffler - Remove and Install".
- F. Remove the air filter housing. Refer to Disassembly and Assembly, RENR3573, "Air Filter - Remove and Install".
- G. Remove the front drive shaft. Refer to Disassembly and Assembly, RENR3578, "Drive Shaft (Front) - Remove and Install".
- H. Remove the rear drive shaft. Refer to Disassembly and Assembly, RENR3578, "Drive Shaft (Rear) - Remove and Install".
- I. Remove the Front floorplate. Refer to Disassembly and Assembly, RENR3585, "Floorplate - Remove and Install".

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	4
B	6V-3145	Load Leveler	1



WARNING

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

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.

Note: The loader linkage has been removed for photographic purposes.



Illustration 1

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1. Disconnect cable assembly (1) .

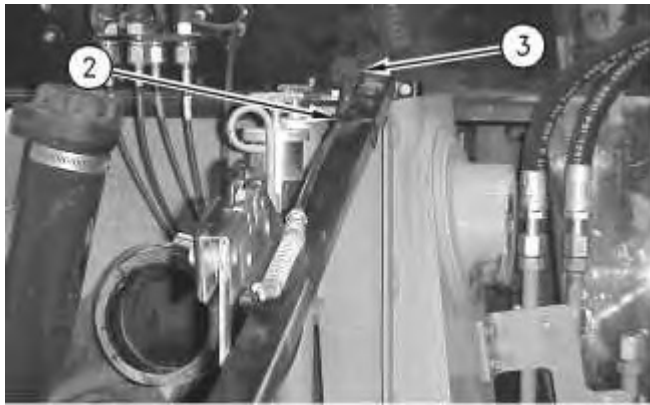


Illustration 2

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2. Remove strap (2) and rubber stop (3) .



Illustration 3

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3. Disconnect four pressure taps (4) and disconnect electrical connector (5) .



Illustration 4

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4. Remove two bolts (6) and frame (7) .

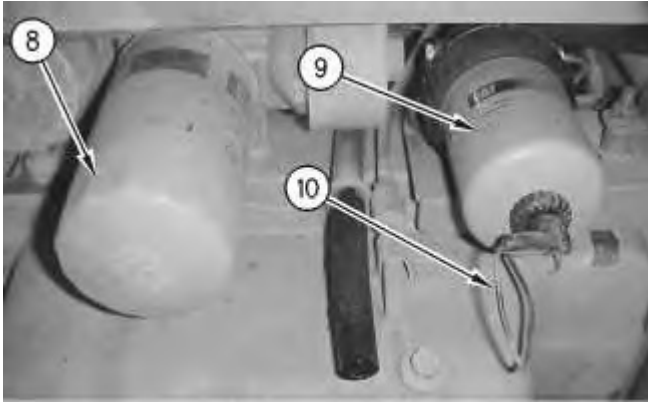


Illustration 5

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5. Remove oil filter (8). Remove line (10) and fuel water separator (9) .

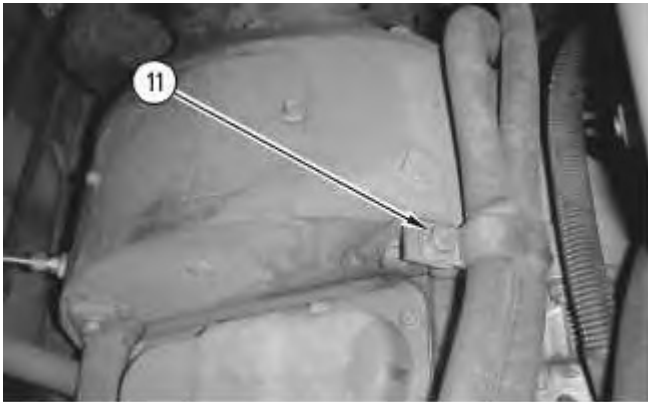


Illustration 6

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6. Remove bolt (11) from the bell housing.
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