



Service Repair Manual

Model

416D BACKHOE LOADER

Product: BACKHOE LOADER

Model: 416D BACKHOE LOADER CXP

Configuration: 416D Backhoe Loader CXP00001-00939 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly

416D, 420D, 424D, 428D, 430D, 432D, 438D and 442D Backhoe Loaders Power Train

Media Number -REN3578-12

Publication Date -01/04/2010

Date Updated -13/04/2010

i01504138

Solenoid Valve (Transmission) - Remove

SMCS - 5479-011-T3

Removal Procedure for Powershift Transmission Arrangement



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 attachments have been lowered, 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.

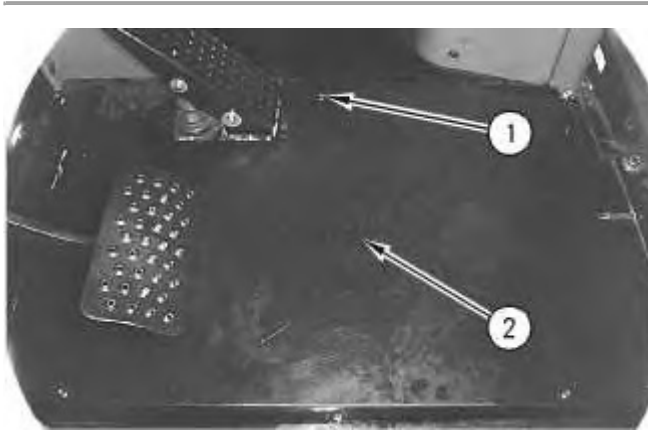


Illustration 1

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1. Remove four bolts (1) and floorplate (2) .

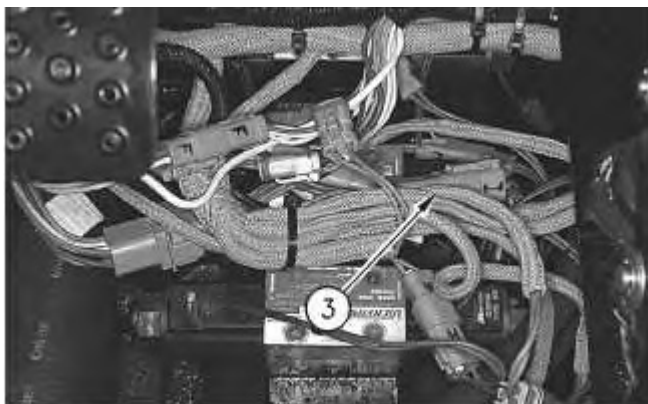


Illustration 2

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2. Disconnect all the wire harnesses on the three solenoid valves. Remove four plugs and bolts (3) from each of the control valves (4). Remove the three solenoid valves.

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Media Number -REN3578-12

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Date Updated -13/04/2010

i01504064

Solenoid Valve (Transmission) - Remove

SMCS - 5479-011-T3

Removal Procedure for Direct Drive Solenoid Valve



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 attachments have been lowered, 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.

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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.

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Dispose of all fluids according to local regulations and mandates.

Note: The transmission has been removed for photographic purposes.

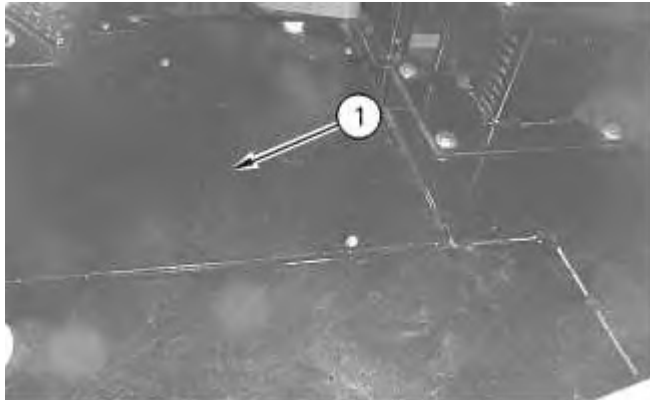


Illustration 1

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1. Remove the floorplate.

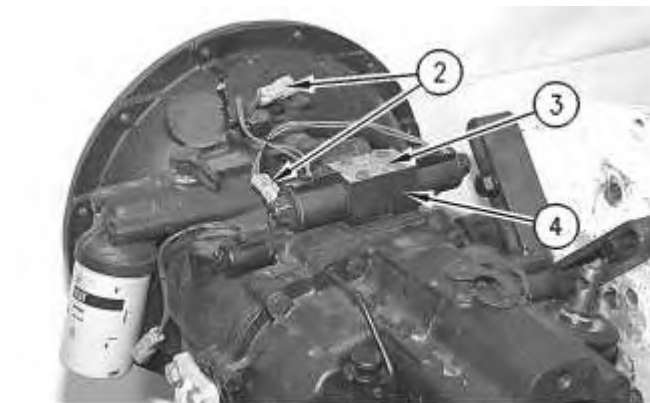


Illustration 2

g00780353

2. Disconnect wiring harness (2) .
 3. Remove four caps (3) and bolts under each cap.
 4. Remove transmission solenoid valve (4) .
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