



Service Repair Manual

Model

416D BACKHOE LOADER

Product: BACKHOE LOADER

Model: 416D BACKHOE LOADER BKG

Configuration: 416D Backhoe Loader BKG01300-UP (MACHINE) POWERED BY 3054B 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

i01504185

Solenoid Valve (Transmission) - Install

SMCS - 5479-012-T3

Installation Procedure for Powershift Transmission Arrangement



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.

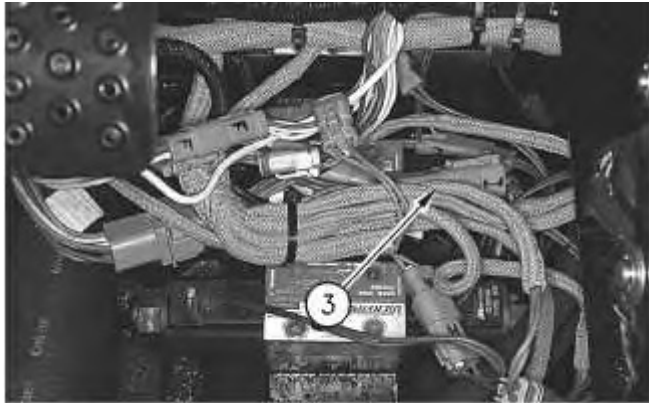


Illustration 1

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1. Connect all the wire harnesses on the three solenoid valves. Install four plugs and bolts (3) from each of the control valves (4). Install the three solenoid valves.

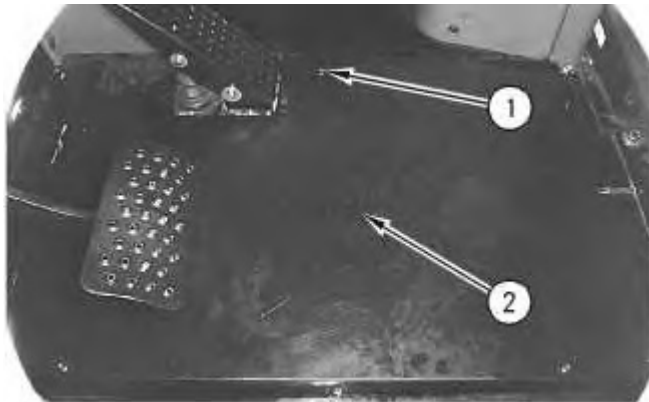


Illustration 2

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

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Transmission (Direct Drive) - Remove

SMCS - 3030-011-DD

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-7640	Stand	2
	8S-7611	Tube	2
	8S-7615	Pin	2
B	1U-9760	Jack Stand	2
C	1U-7505	Transmission Jack	1
D	1U-7558	Mounting Brackets	2
E	FT-2535	Engine Support Bar Assembly	1

Start By:

- A. Remove the front drive shaft. Refer to Disassembly and Assembly, "Drive Shaft (Front) - Remove and Install".
- B. Remove the rear drive shaft. Refer to Disassembly and Assembly, "Drive Shaft (Rear) - Remove and Install".
- C. Remove the piston pump. Refer to Disassembly and Assembly, RENR3585, "Piston Pump (Implement and Steering) - Remove".
 1. Use a suitable lifting device in order to raise the machine to a height of 91.4 mm (36 inch) between the ground and the side step.

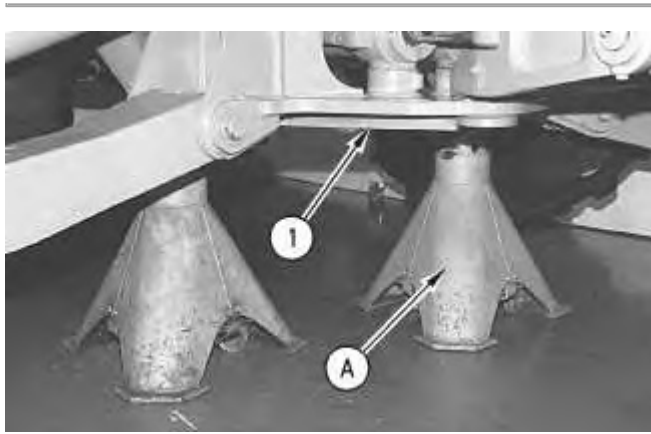


Illustration 1

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2. Place tooling (A) under rear frame (1) .

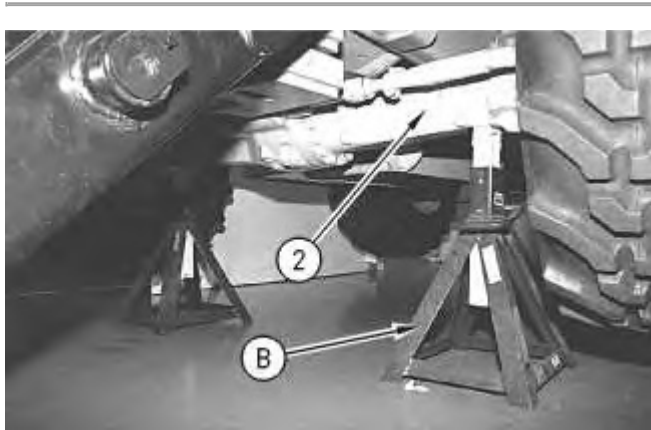


Illustration 2

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3. Place tooling (B) under front axle (2) .



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