



# Service Repair Manual

## **Models**

# 442D BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 442D BACKHOE LOADER BRY

Configuration: 442D Backhoe Loader BRY00747-00890 (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

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i02557470

## Transmission (Power Shift) - Disassemble

SMCS - 3030-015-PM; 3066-015

### Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7502	Repair Stand	1
B	152-7085 <sup>(1)</sup>	Transmission Shaft Handler	1
	189-0409	Shackle As	1
C	1P-0074	Slide Hammer	1
D	8H-0063	Bearing Puller Assembly	1
	6V-3010	Puller Group	1
	126-7177	Leg	2
E	1U-6405	Puller	1
F	152-7055	Spring Compressor	1
G	1U-6400	Puller	1
H	128-5041	Bearing Puller	1
	6V-3010	Puller Group	1
	126-7177	Leg	2
I	6V-2157	Link Bracket	1

(1) CE Compliant

**Start By:**

- A. Remove the transmission. Refer to Disassembly and Assembly, "Transmission (Powershift) - Remove".

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**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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

**Note:** The transmission will be disassembled in major components. The major components will then be disassembled.

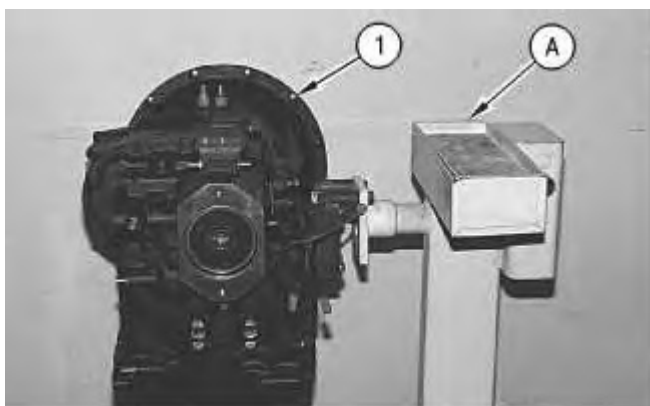


Illustration 1

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1. Use a suitable lifting device in order to install transmission (1) on tooling (A) . The weight of transmission (1) is 172 kg (379 lb).
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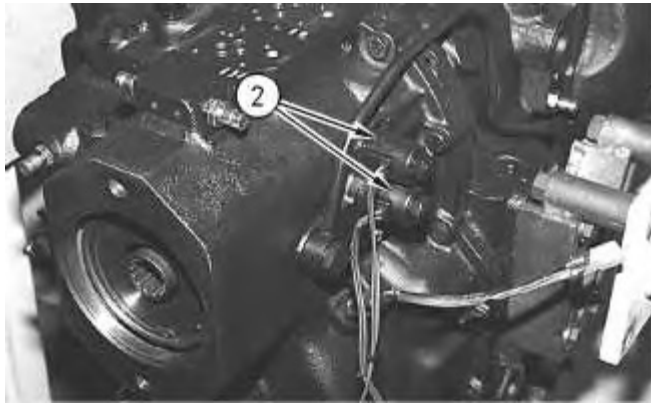


Illustration 2

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2. Remove two valve groups (2) .

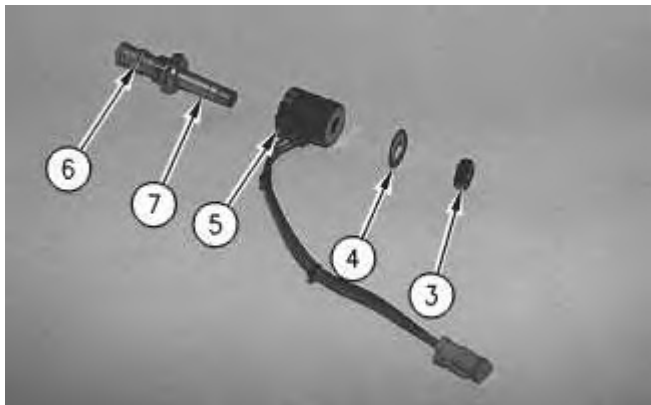


Illustration 3

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3. Remove nut (3) , washer (4) , and coil assembly (5) . Remove seal kit (6) from cartridge (7) .



Illustration 4

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4. Remove magnetic sensor (8) .



Illustration 5

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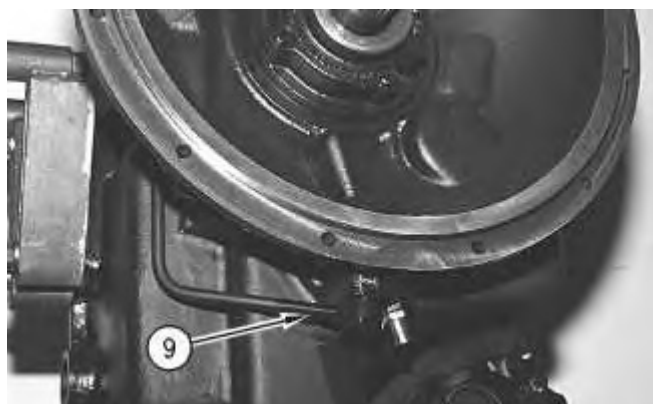


Illustration 6

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5. Remove tube assembly (9) .



Illustration 7

g00730324

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