



Service Repair Manual

Models

301.8 Mini Hydraulic Excavator

Product: MINI HYD EXCAVATOR

Model: 301.8 MINI HYD EXCAVATOR H8X

Configuration: 301.8 Mini Hydraulic Excavator H8X00001-UP (MACHINE) POWERED BY C1.1 Engine

Disassembly and Assembly

301.5,301.6,301.7,301.8,302 Mini Hydraulic Excavator Machine Systems

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i07366569

Blade Cylinder - Assemble

SMCS - 7562-016-BG

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	152-4251	Cylinder Repair Bench	1
B	1P-2853	Spanner Wrench	1
C	280-2060	Offset Spanner Wrench	1
D	8H-8539	1 5/8" Socket	1
	5P-3588	Adapter	1



Illustration 1

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1. Install seal (16) and spacer (17).



Illustration 2

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2. Install O-ring seal and backup ring (14). Install O-ring seal (15).



Illustration 3

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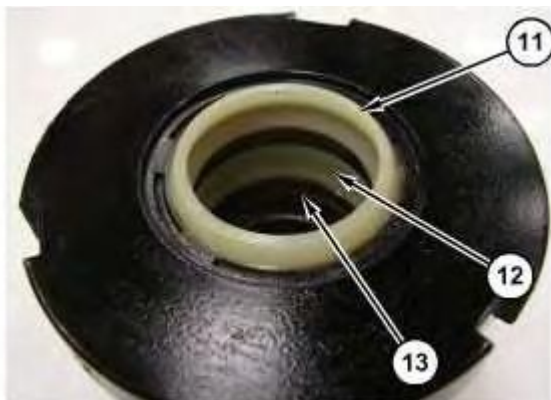


Illustration 4

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3. Install bushing (10). Install O-ring seal (13). Install inner seal (12), and outer seal (11).

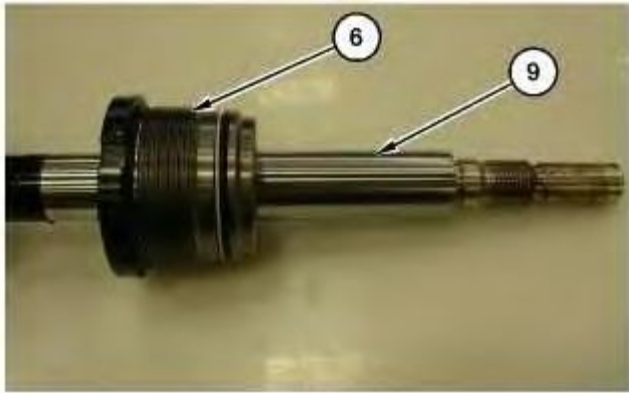


Illustration 5

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4. Install cylinder nut (6) onto rod end (9). Apply oil on seals and rod end for assembly.

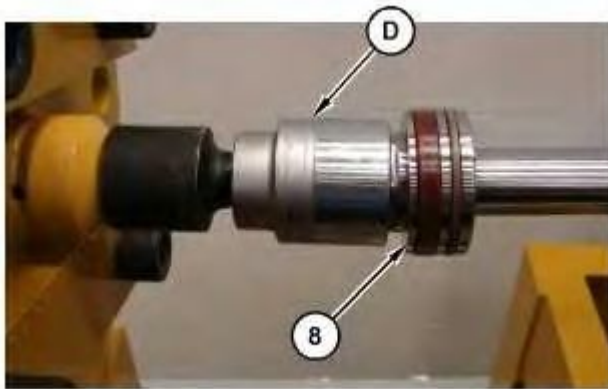


Illustration 6

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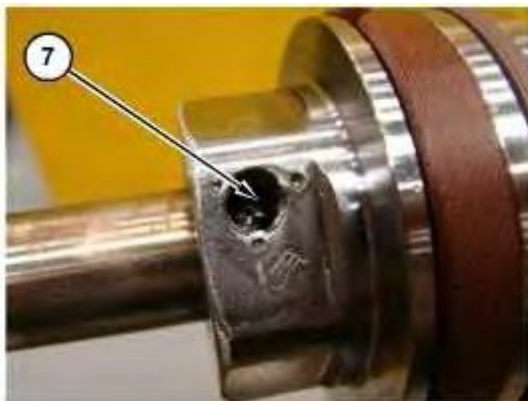


Illustration 7

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5. Mount the rod end onto Tooling (A).

Install piston (8). Use Tooling (D) to tighten piston (8). Tighten piston (8) to a torque of $400 \pm 20 \text{ N}\cdot\text{m}$ ($295 \pm 15 \text{ lb}\cdot\text{ft}$).

Install ball and set screw (7). Tighten set screw (7) to a torque of 17 ± 2 N·m (150 ± 18 lb in). Stake set screw in place once torque is applied.

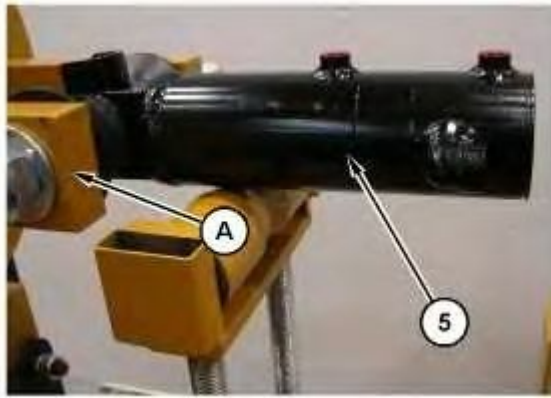


Illustration 8

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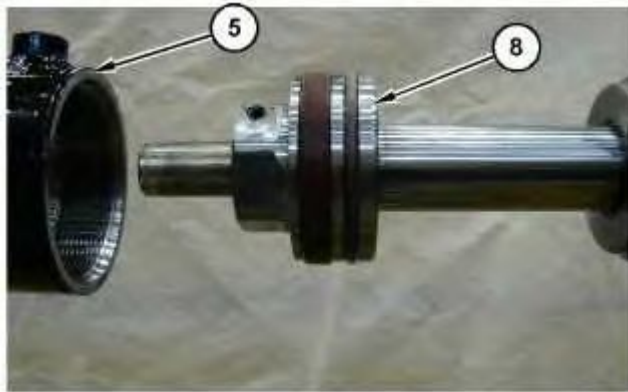


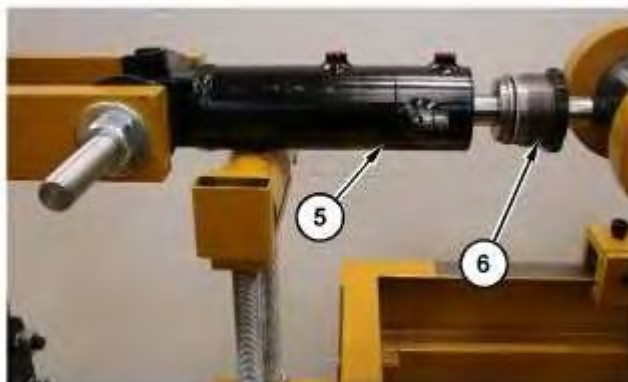
Illustration 9

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6. Mount barrel end of cylinder (5) on Tooling (A).

Align barrel assembly (5) and the rod assembly for installation. Apply hydraulic oil inside barrel assembly and on piston (8).

Install the piston and rod assembly inside the barrel assembly.



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