



Service Repair Manual

Models

18M3 MOTOR GRADER

Product: MOTOR GRADER

Model: 18M3 MOTOR GRADER E9W

Configuration: 18M Series 3 Motor Grader E9W00001-UP (MACHINE) POWERED BY C13 Engine

Disassembly and Assembly

16M Series 3 and 18M Series 3 Motor Graders Machine Systems

Media Number -UENR6762-02

Publication Date -01/09/2015

Date Updated -07/08/2018

i06146136

Piston Pump (Hydraulic and Steering) - Remove and Install

SMCS - 4306-010; 5070-010

Removal Procedure

Start By:

- Remove the rear chassis support. Refer to Disassembly and Assembly, "Rear Chassis Support - Remove".



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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat[®] products.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Put identification marks on all lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, hoses, and tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

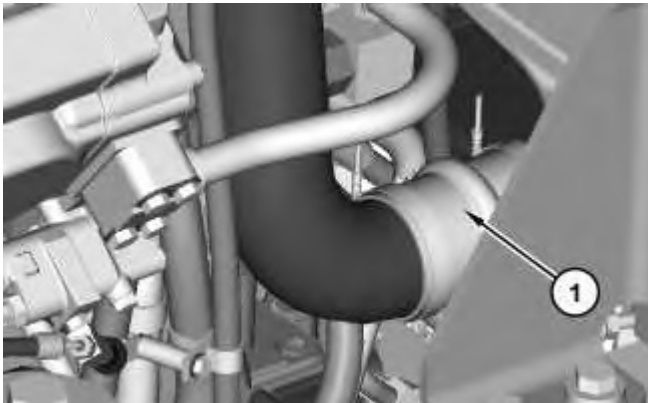
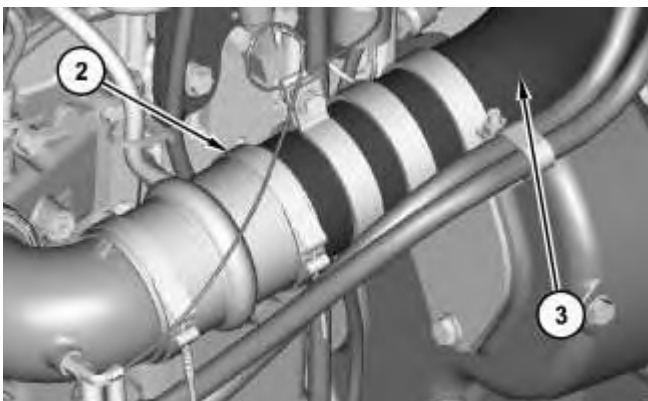


Illustration 1

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1. Disconnect hose (1).



2. Loosen clamp (2). Position tube (3) out of the way.

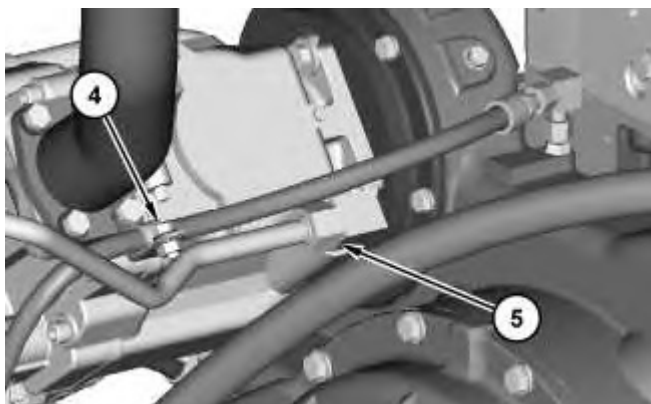


Illustration 3

3. Remove clip (4). Remove tube assembly (5).

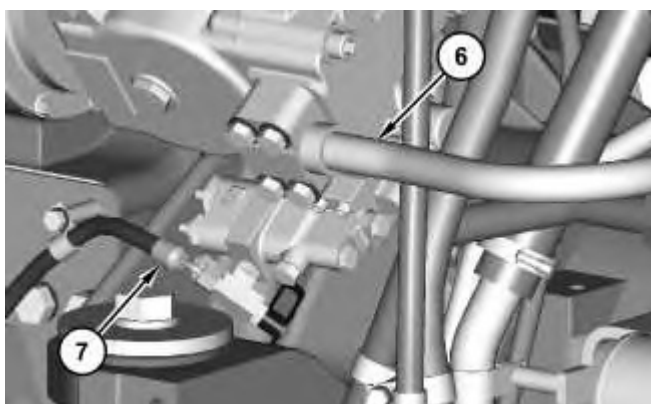


Illustration 4

4. Remove tube assembly (6). Disconnect hose assembly (7).

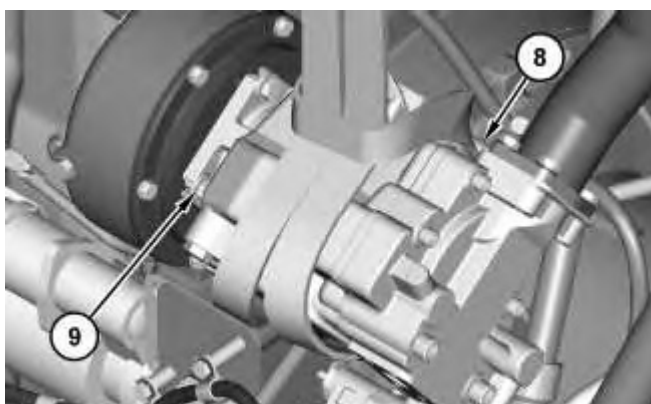


Illustration 5

5. Attach a suitable lifting device onto piston pump (8). The weight of piston pump (8) is approximately 73 kg (160 lb).
6. Remove bolts (9) in order to remove piston pump (8).

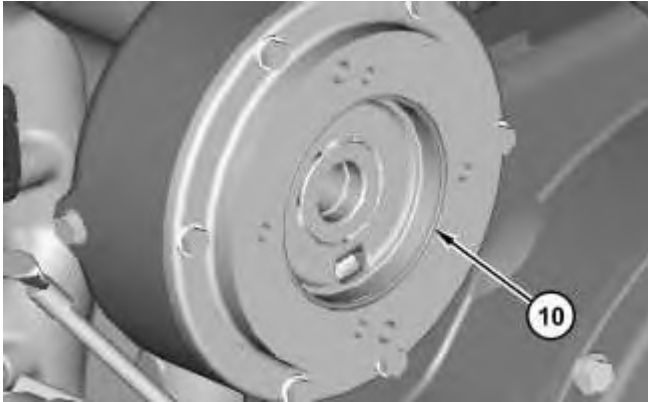


Illustration 6

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7. Remove O-ring seal (10).

Installation Procedure

Note: Inspect the O-ring seals. Replace the O-ring seals that are worn or damaged.

1. Install piston pump (hydraulic and steering) (8) in the reverse order of removal.

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