



Service Repair Manual

Models

120M Motor Grader

Product: MOTOR GRADER

Model: 120M MOTOR GRADER D9W

Configuration: 120M Motor Grader - All Wheel Drive D9W00001-UP (MACHINE) POWERED BY C6.6 Engine

Disassembly and Assembly 12M and 120M Motor Graders Power Train

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Transmission - Disassemble

SMCS - 3030-015; 3159-015; 3176-015

S/N - D9W1-UP

Disassembly Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|--------------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 1P-0074 | Slide Hammer Puller Gp | 1 |
| | 4C-5651 | Threaded Adapter | 1 |
| B | 5P-4758 | Retaining Ring Pliers As | 1 |
| C | 5P-5197 | Retaining Ring Pliers As | 1 |
| D | 1P-1863 | Retaining Ring Pliers | 1 |
| E | 5F-7465 | Puller Gp | 1 |
| F | 6V-3010 | Puller Gp | 1 |
| | 8B-7557 | Threaded Adapter | 2 |
| | 126-7177 | Puller Leg | 2 |
| | 126-7181 | Sliding Plate | 4 |
| G | 8H-0663 | Bearing Puller Gp | 1 |
| H | 9U-7289 | Ruler | 1 |

Start By:

- a. Remove the transmission. Refer to Disassembly and Assembly, "Transmission - Remove".

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.

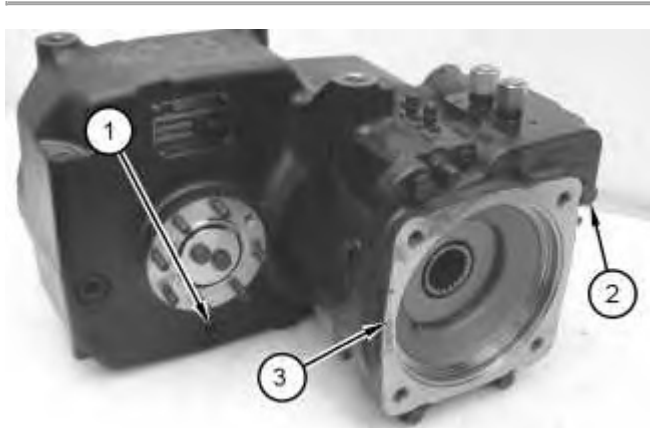


Illustration 1

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WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

1. Remove plug (1) in order to drain the oil from the transmission into a suitable container. Evenly remove bolts (2) and remove housing (3).
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Illustration 2

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2. Remove seal (4) from housing (3).

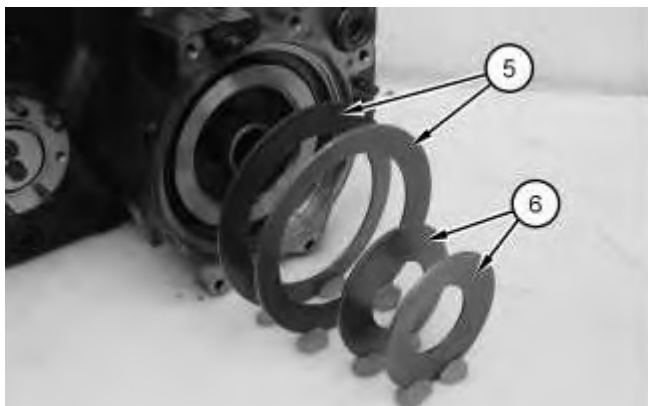


Illustration 3

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3. Remove springs (5) and (6).

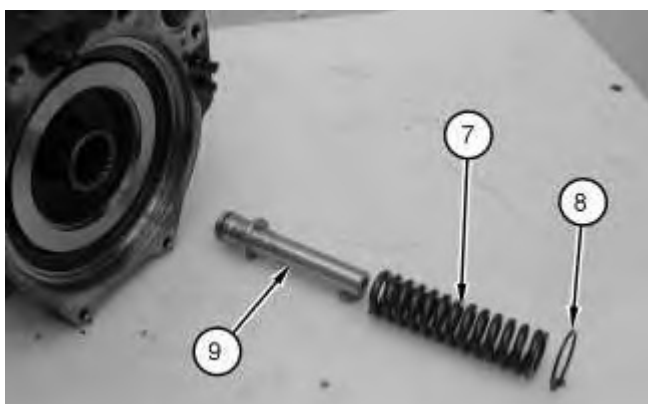


Illustration 4

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4. Remove spring (7), O-ring seal (8), and spool (9).

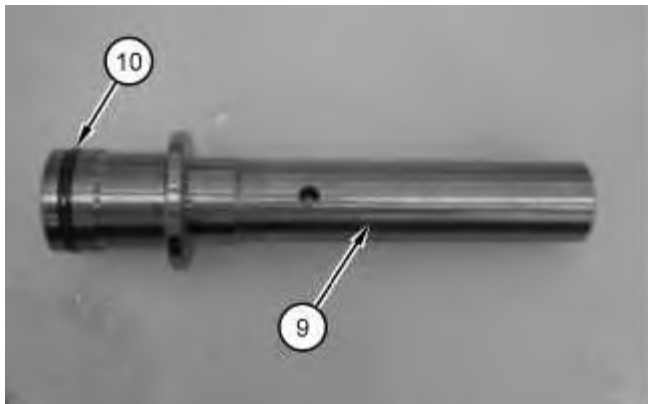


Illustration 5

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5. Remove seal (10) from spool (9).

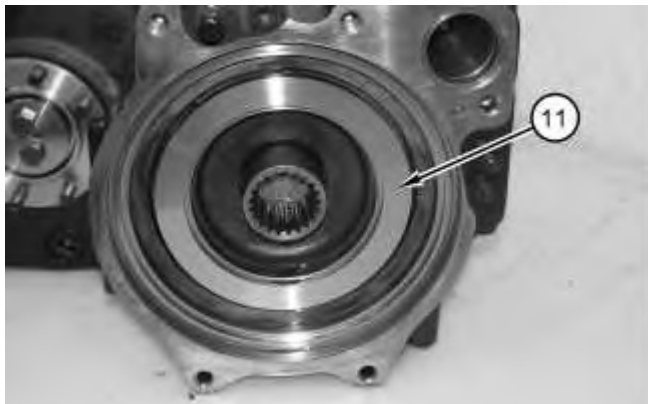


Illustration 6

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6. Remove piston (11).

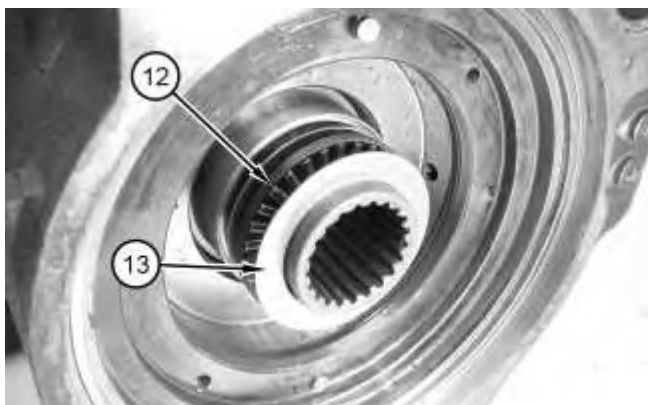


Illustration 7

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7. Remove race (13) and thrust bearing (12).
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