



Service Repair Manual

Models

120M Series 2 Motor Grader

Product: MOTOR GRADER

Model: 120M 2 MOTOR GRADER R9N

Configuration: 120M Series 2 Motor Grader R9N00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly

120M Series 2 Motor Grader Power Train

Media Number -KENR9467-02

Publication Date -01/05/2017

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i04552113

Transmission - Disassemble

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

Disassembly Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|-----------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 138-7575 | Link Bracket | 3 |
| B | 308-3471 | Jack Stand Gp | 3 |
| C | 1U-9202 | Lever Puller Hoist | 1 |
| D | 1P-1863 | Retaining Ring Pliers | 1 |
| E | 308-3470 | Jack Stand Gp | 2 |
| F | 140-7742 | Sleeve | 1 |
| G | 154-6181 | Forcing Bolt | 2 |
| H | FT-2769 | Table | 1 |
| J | 4C-8156 | Lifting Fixture | 1 |
| K | 1U-6410 | Three Jaw Puller | 1 |
| | 1P-0510 | Driver Gp | 1 |
| L | 9U-7480 | Compressing Tube | 1 |
| | 5C-7201 | Nut | 1 |
| | 8T-4224 | Hard Washer | 1 |
| | - | | 1 |

| | | | |
|---|----------|-----------------------|---|
| | | Bolt | |
| | | M10 - 1.5 by 460mm | |
| M | 8B-7548 | Push-Puller Tool Gp | 1 |
| N | 2P-8312 | Retaining Ring Pliers | 1 |
| P | 1P-2321 | Combination Puller | 1 |
| | 1P-0510 | Driver Gp | 1 |
| R | 189-0408 | Shackle As | 1 |
| | 3E-3882 | Eyebolt | 1 |
| S | 126-7175 | Push-Puller Tool Gp | 1 |
| | 4C-5653 | Threaded Adapter | 1 |
| | 1P-0510 | Driver Gp | 1 |

Start By:

- a. Remove the transmission.
- b. Remove the gear pump (transmission charging and scavenge).

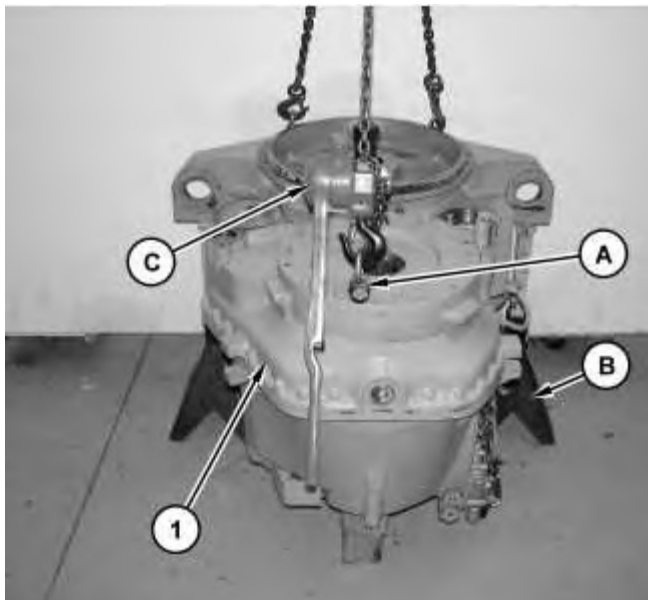


Illustration 1

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1. Use Tooling (A), Tooling (C), and a suitable lifting device to position transmission (1) onto Tooling (B) and suitable cribbing. The weight of transmission (1) is approximately 907 kg (2000 lb).

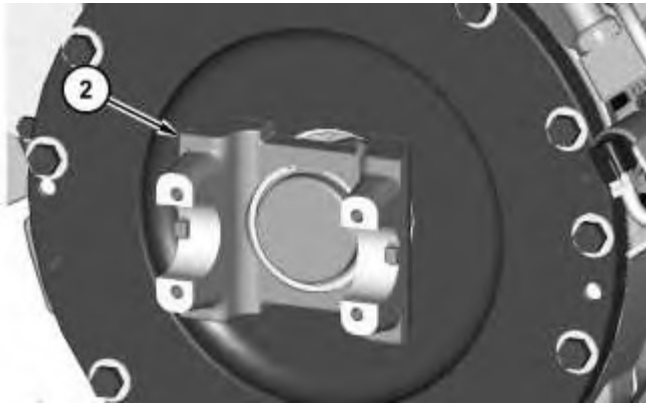


Illustration 2

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2. Remove yoke assembly (2).

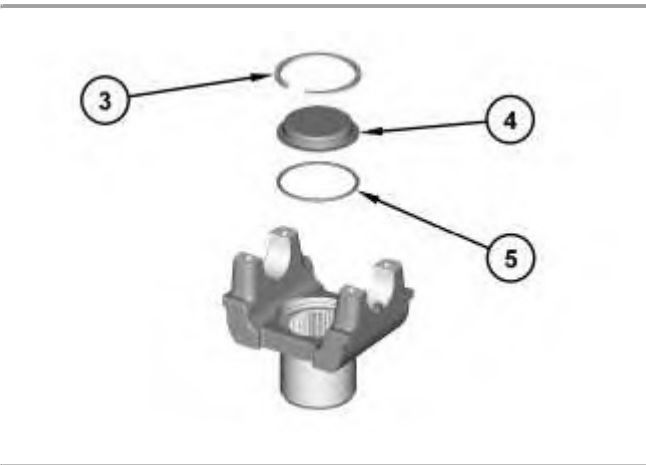


Illustration 3

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3. Remove retaining ring (3).
4. Remove cup (4). Remove O-ring seal (5).



Illustration 4

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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.

5. Remove bolts (6) in order to remove plate assembly (7).

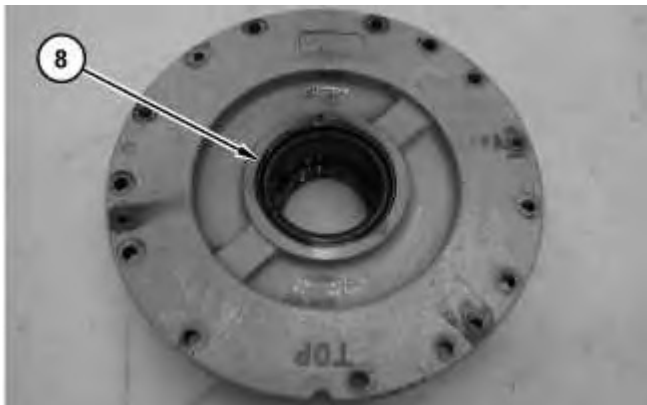


Illustration 5

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6. Remove lip seal (8).

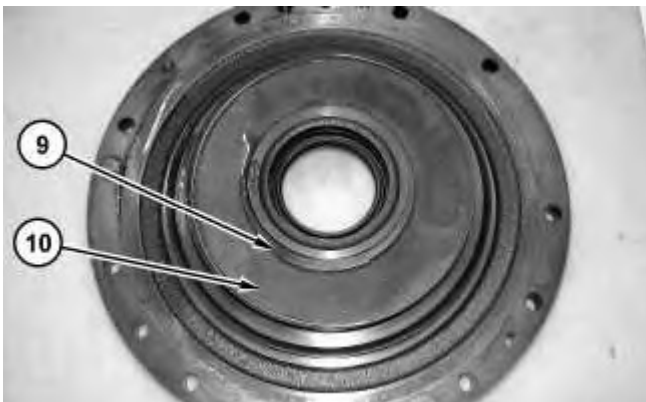


Illustration 6

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7. Use Tooling (D) to remove retaining ring (9). Remove coned disc springs (10).

Note: Note the orientation of coned disc springs (10) for assembly purposes.

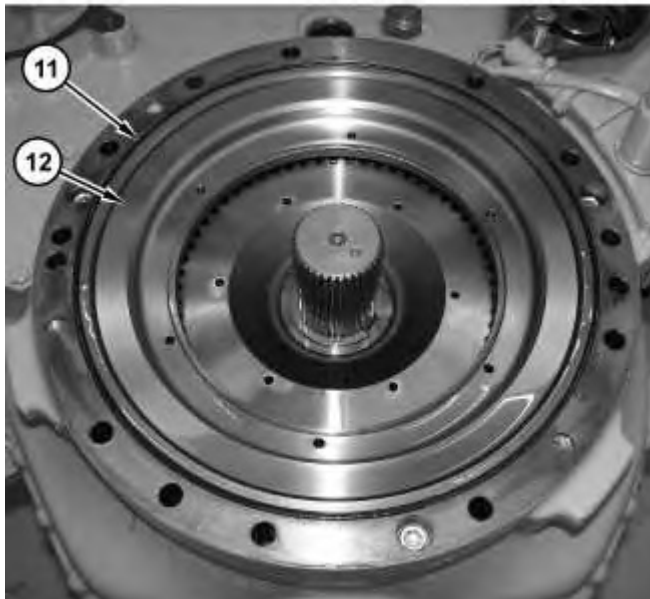


Illustration 7

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8. Remove O-ring seal (11) and piston (12).



Illustration 8

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9. Remove piston seal (13). Remove piston seal (14).

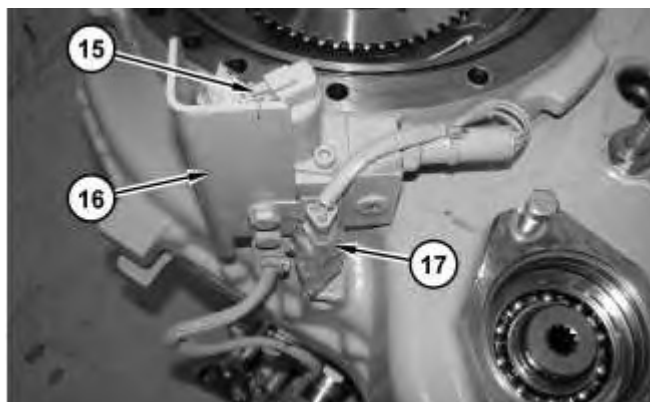


Illustration 9

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10. Disconnect harness assembly (15) and harness assembly (16). Remove guard (17).

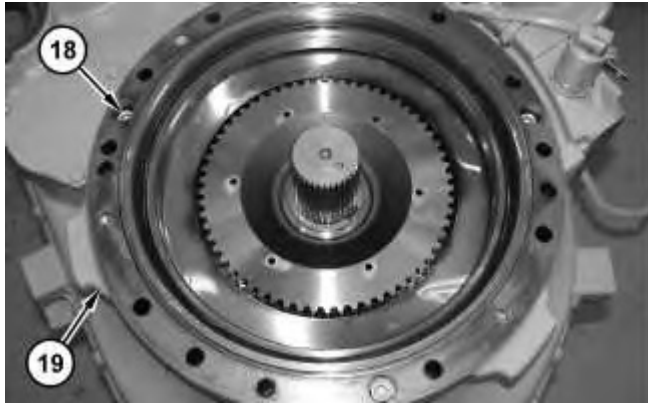


Illustration 10

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11. Remove bolts (18). Use two people in order to remove housing (19). The weight of housing (19) is approximately 20 kg (45 lb).

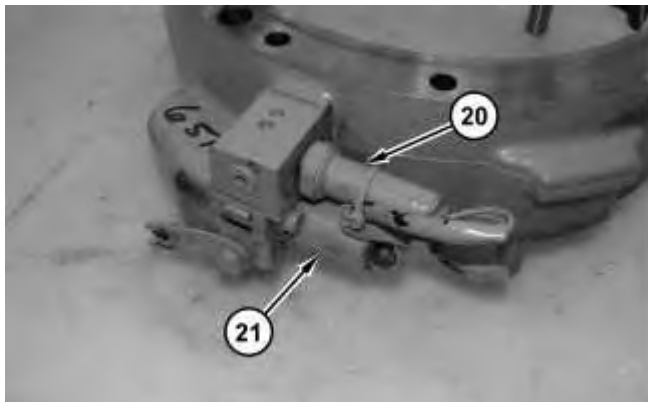


Illustration 11

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12. Remove pressure sensor (20) and the O-ring seal. Remove solenoid (21).



Illustration 12

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13. Remove O-ring seal (22), O-ring seal (23), O-ring seal (24), O-ring seals (25).

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