



Service Repair Manual

Models

140M 3 AWD MOTOR GRADER

Product: MOTOR GRADER

Model: 140M 3 AWD MOTOR GRADER N9G

Configuration: 140M Series 3 Motor Grader-All Wheel Drive N9G00001-UP (MACHINE) POWERED BY C9.3 Engine

Disassembly and Assembly

12M Series 3, 140M Series 3 and 160M Series 3 Motor Graders Machine Systems

Media Number -UENR3488-02

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i07512054

Gerotor Motor (Circle Drive) - Assemble

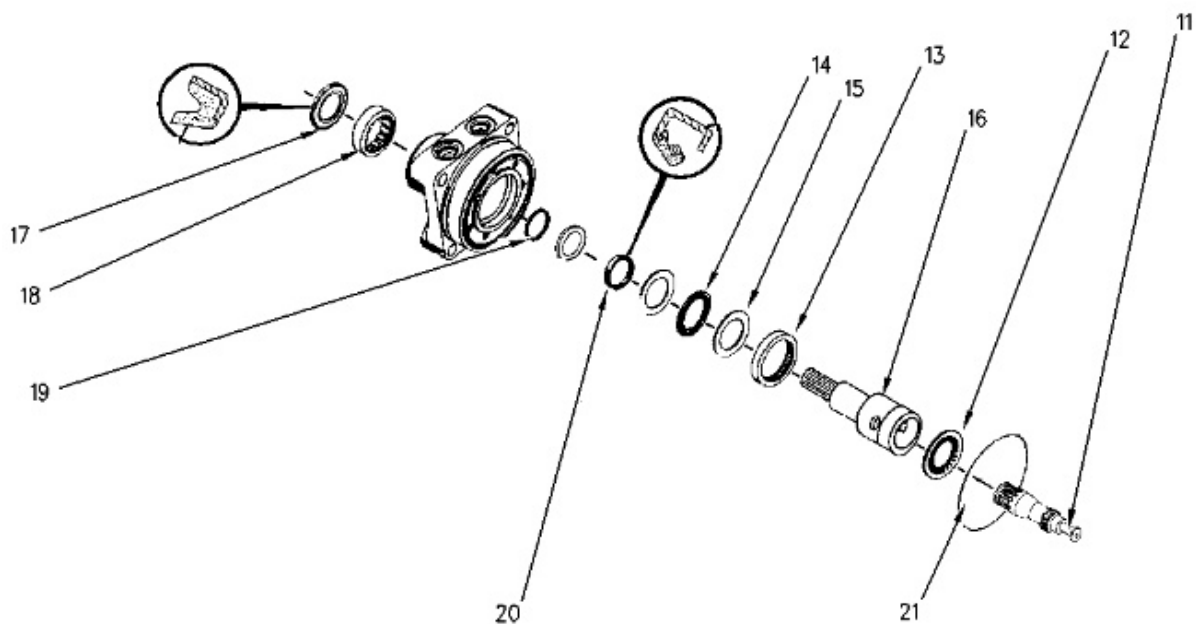
SMCS - 5082-016; 5206-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0510	Driver Gp	1

1. Make sure that all the components of the gerotor motor are clean prior to assembly. During the assembly, check the condition of all the O-ring seals that are used in the motor. If any of the seals are damaged, use new parts for replacement.



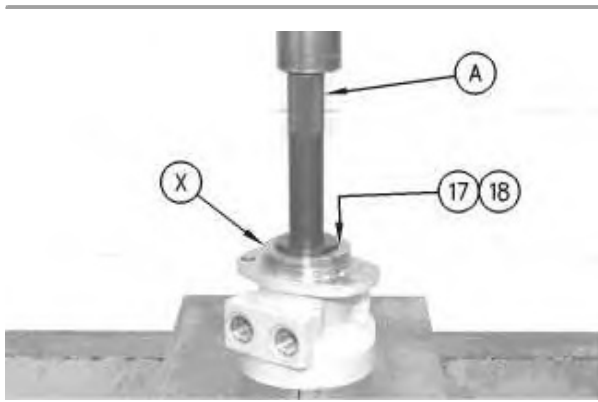


Illustration 2

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2. Install bearing (18). Use a suitable press to press bearing (18) to a depth of 7.62 mm (0.300 inch) below Surface (X).
3. Install lip seal (17). Press lip seal (17) in flush to 0.51 mm (0.020 inch) below face.

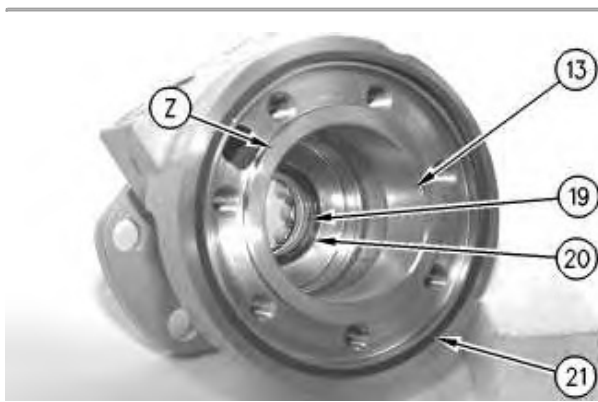


Illustration 3

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4. Install backup ring (19) and the shim to the motor assembly.
5. Install lip seal (20) to the motor assembly.
6. If equipped, install the needle bearing (13). Press the needle bearing to a depth of 2.92 mm (0.115 inch) below Surface (Z). Install O-ring seal (21) to the motor assembly.

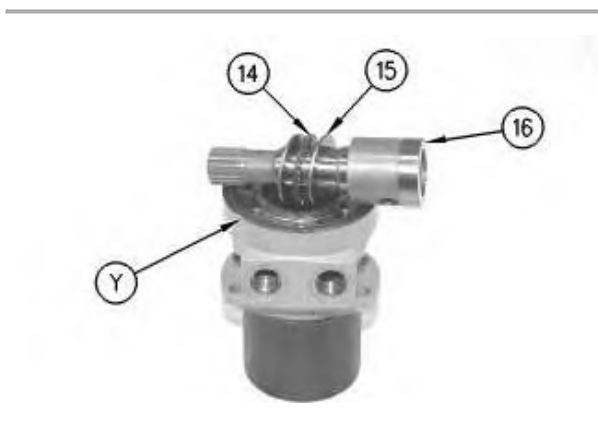


Illustration 4

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7. Position the motor assembly so that Face (Y) is facing upward. Install two races (15) and bearing (14) to shaft (16), as shown.
8. Install shaft (16) to the motor assembly.



Illustration 5

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9. Install link (11) and bearing (12) to the motor assembly.

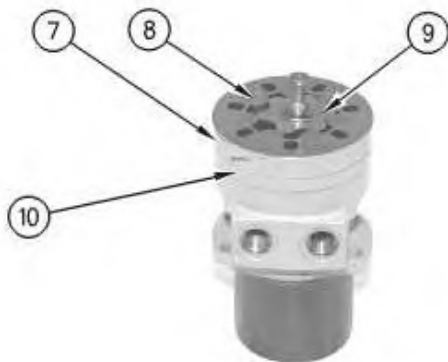


Illustration 6

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10. Install spacer (10) and inner rotor (9) to the motor assembly.
11. Install the O-ring seal in outer rotor (7). Install pins (8) and outer rotor (7) to the motor assembly.



Illustration 7

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12. Install the O-ring seals on both sides of manifold (6). Install manifold (6) to the motor assembly.
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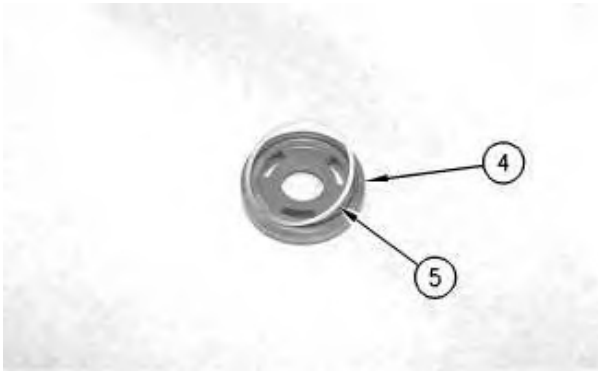


Illustration 8

g00635553

13. Install a new ring (5) to inner plate (4).

Note: Ring (5) is cone-shaped. The cone fits into the groove of inner plate (4).



Illustration 9

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14. Install inner plate (4). The seal ring should face the outer cap. Install outer plate (3) to the motor assembly.

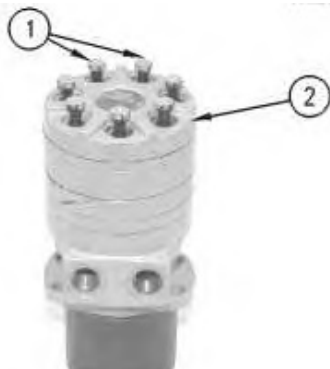


Illustration 10

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15. Install cap (2) and bolts (1) on to the motor assembly.
16. Tighten bolts (1) to a torque of $68 \pm 7 \text{ N}\cdot\text{m}$ ($50 \pm 5 \text{ lb ft}$).

End By:

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