



Service Repair Manual

Models

16M3 Motor Grader

Product: MOTOR GRADER

Model: 16M3 MOTOR GRADER N9Y

Configuration: 16M Series 3 Motor Grader N9Y00001-UP (MACHINE) POWERED BY C13 Engine

Disassembly and Assembly

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

Media Number -UENR6762-02

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i06147991

Gerotor Motor (Circle Drive) - Disassemble

SMCS - 5082-015; 5206-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-0074	Slide Hammer Puller Gp	1

Start By:

- a. Remove the gerotor motor.

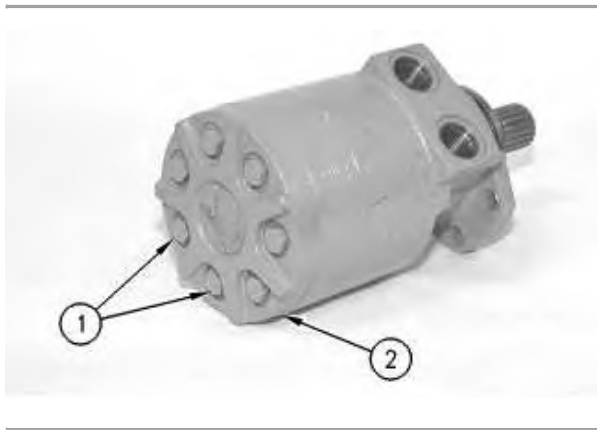


Illustration 1

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Note: Cleanliness is an important factor. Make sure that the component is clean and free of foreign material prior to the disassembly procedure.

1. Remove bolts (1) and cover (2) from the motor assembly. Remove the O-ring seal from cover (2).



Illustration 2

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2. Remove outer cover plate (3) and inner plate (4) from the motor assembly.

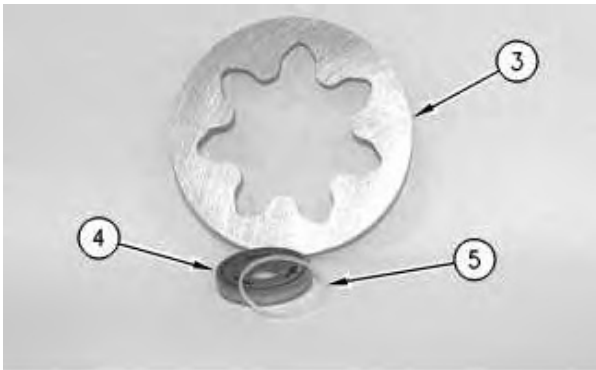


Illustration 3

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3. Remove seal (5) from inner plate (4).



Illustration 4

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4. Remove manifold (6) from the motor assembly. Remove the O-ring seals that are on both sides of manifold (6).
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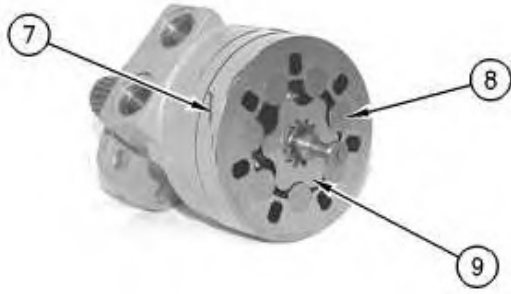


Illustration 5

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5. Remove outer rotor (7) with the O-ring seal (not shown). Remove the O-ring seal from outer rotor (7).
 6. Remove pins (8) and inner rotor (9) from the motor assembly.
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Illustration 6

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7. Remove spacer (10) from the motor assembly.
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Illustration 7

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8. Remove link (11) and bearing (12) from the motor assembly.
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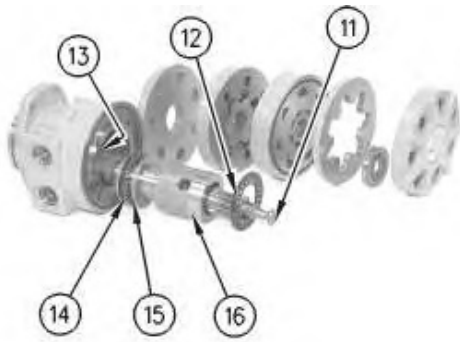


Illustration 8

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9. Remove shaft (16). If the gerotor motor (circle drive) is equipped with needle bearing (13), use Tooling (A) (not shown) in order to remove needle bearing (13). Remove two races (15) and bearing (14) from the motor assembly.
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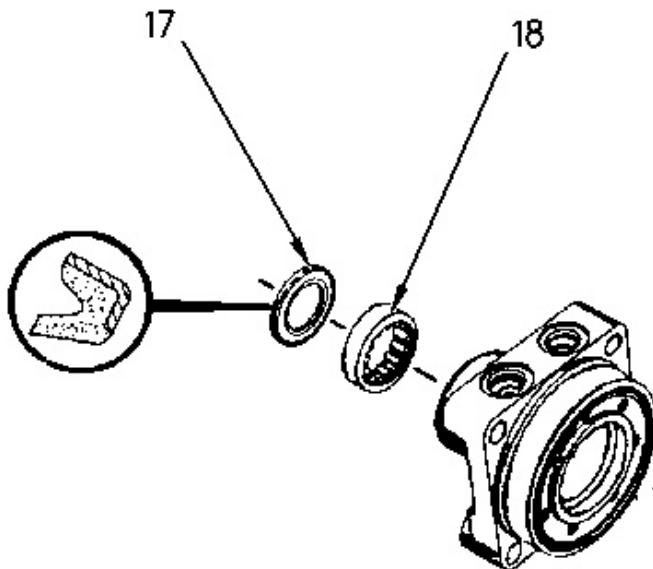


Illustration 9

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