



Service Repair Manual

Models

18M3 MOTOR GRADER

Product: MOTOR GRADER

Model: 18M3 MOTOR GRADER N9A

Configuration: 18M Series 3 Motor Grader N9A00001-UP (MACHINE) POWERED BY C13 Engine

Disassembly and Assembly 16M Series 3 and 18M Series 3 Motor Graders Power Train

Media Number -UENR6763-02

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i06891653

Service Brake (Wheel Spindle) - Assemble

SMCS - 4002-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Bracket	2
B	1P-2420	Transmission Repair Stand	1
C	140-7742	Sleeve	2
F	169-0503	Installation Kit	1
	1U-8698 ⁽¹⁾	Duo-Cone Seal Installer As	1
	1U-6441 ⁽²⁾	Duo-Cone Seal Installer As	1
G	1U-8846	Gasket Sealant	1
H	9S-3263	Loctite 243	1
J	8T-4132	Nut	6
	-	M16 - 2.00 × 180mm Bolt	3
K	6V-7030	Micrometer Depth Gauge Gp	1
L	6V-2055	Grease	1

⁽¹⁾ For a Duo-cone Seal with a diameter of 160.09 ± 0.58 mm (6.303 ± 0.023 inch)

⁽²⁾ For a Duo-cone Seal with a diameter of 191.26 ± 0.25 mm (7.529 ± 0.009 inch)

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

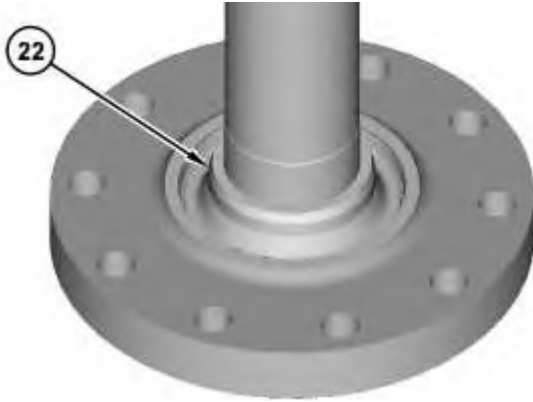


Illustration 1

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1. Install spacer (22).



Illustration 2

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2. Raise the temperature of bearing cone (21). Install bearing cone (21). Ensure that bearing cone (21) is seated correctly against the spacer.
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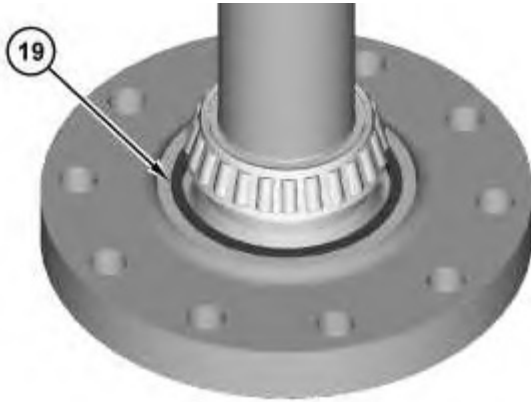


Illustration 3

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3. Use Tooling (F) to install the second half of Duo-Cone seal (19). Refer to Disassembly and Assembly, "Duo-Cone Conventional Seals - Install".

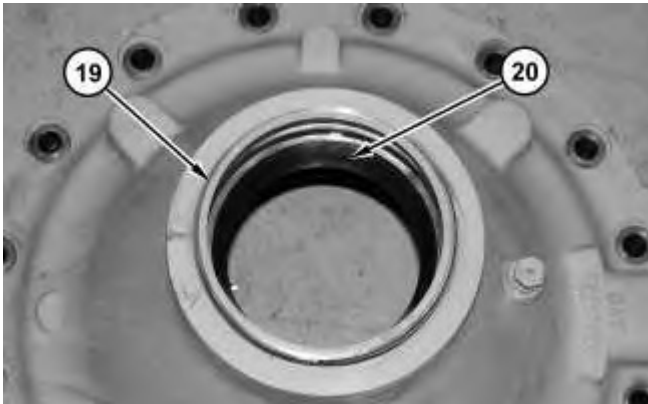


Illustration 4

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4. Lower the temperature of bearing cup (20). Install bearing cup (20). Ensure that bearing cup (20) is seated correctly. Use Tooling (F) to install the first half of Duo-Cone seal (19). Refer to Disassembly and Assembly, "Duo-Cone Conventional Seals - Install".

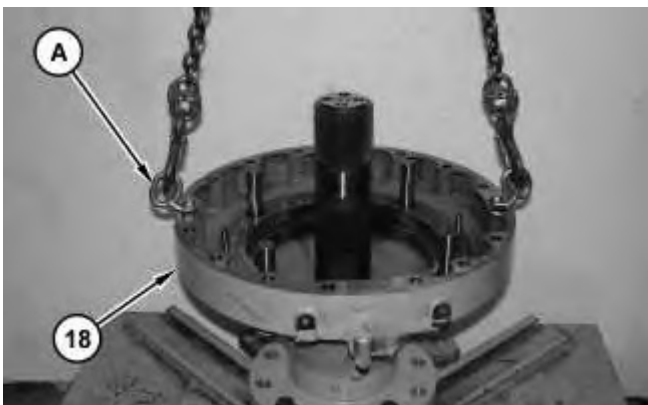


Illustration 5

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5. Use Tooling (A) and a suitable lifting device to install housing (18). Apply Tooling (L) onto the bores of housing (18). The weight of housing (18) is approximately 75 kg (165 lb).



Illustration 6

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Illustration 7

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6. Install seals (17).

Note: Some machines require the seals to be installed on the piston, while others require the seals to be installed in the housing.



Illustration 8

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