



# Service Repair Manual

## **Models**

# 14M3 Motor Grader

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Product: MOTOR GRADER

Model: 14M3 MOTOR GRADER N9S

Configuration: 14M Series 3 Motor Grader N9S00001-UP (MACHINE) POWERED BY C13 Engine

## Disassembly and Assembly 14M3 Motor Grader Power Train

Media Number -M0067666-01

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i06595544

## Rear Axle, Differential and Final Drive - Disassemble

SMCS - 3258-015; 3278-015; 3282-015-RE; 4050-015; 4068-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3940	Bracket As	4
B	140-7742	Sleeve	2
C	1U-9200	Lever Puller Hoist	1
D	154-6182	Forcing Bolt	3
	154-6360	Forcing Bolt <sup>(1)</sup>	3
		Reaction Plate 1/4 in. Steel	3
E	1D-4601	Bolt	2
	4K-0367	Full Nut	2
	150-1782	Crossblock	1
	5B-0637	High Idle Nut	1
	5F-7366	Forcing Screw	1
	1P-0520	Driver Gp	1
	3H-0465	Push-Puller Plate	2
F	439-3939	Link Bracket As	2

G	8B-7551	Bearing Puller Gp	1
	1P-5546	Crossarm	1
	3H-0465	Push-Puller Plate	2
	5F-7366	Forcing Screw	1
H	1U-6692	Socket Wrench As	1
J	154-6183	Forcing Bolt	3
K	1U-6405	Three Jaw Puller	1

<sup>(1)</sup> **154-6360** Forcing Bolt is used for the latest ring gear.

**Start By:**

- a. Remove the rear axle, differential, and final drive.

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**NOTICE**

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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**Note:** Inspect the O-ring seals. Replace the O-ring seals that are worn or damaged.

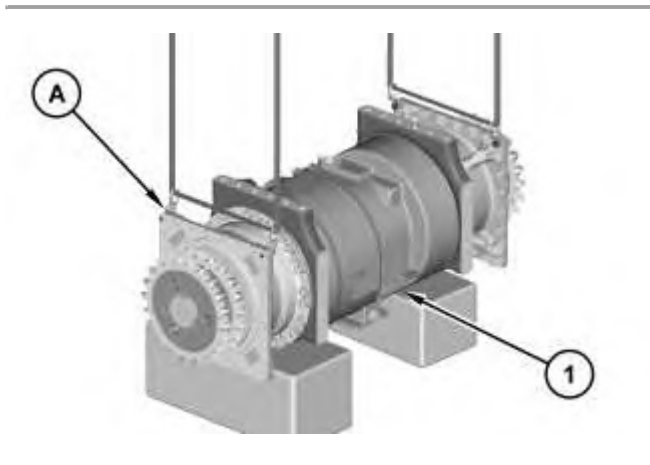
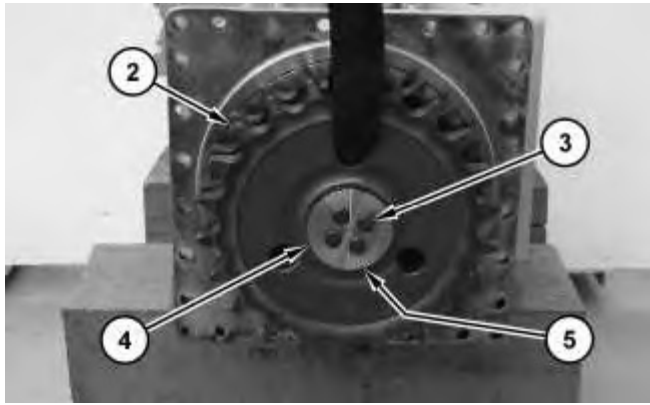


Illustration 1

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1. Use Tooling (A) and two suitable lifting devices to position rear axle, differential, and final drive (1) onto suitable cribbing. The weight of rear axle, differential, and final drive (1) is approximately 1588 kg (3500 lb).
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Illustration 2

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2. Attach Tooling (B) and a suitable lifting device onto sprocket (2). The weight of sprocket (2) is approximately 25 kg (55 lb).
3. Remove bolts (3), retainer (4), shims (5), and sprocket (2).

**Note:** Note the quantity and the order of shims (5).



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Illustration 3

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4. Attach Tooling (B) and a suitable lifting device onto sprocket (6). The weight of sprocket (6) is approximately 25 kg (55 lb).
  5. Remove sprocket (6).
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Illustration 4

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6. Remove bearing cone (7).

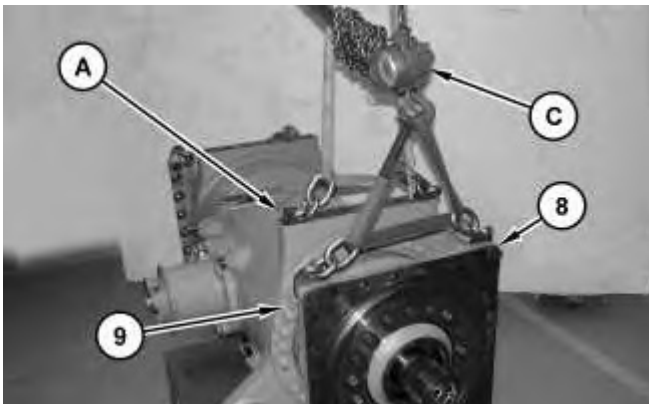


Illustration 5

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7. Attach Tooling (A), Tooling (C), and two suitable lifting devices onto final drive housing (8). The weight of final drive housing (8) is approximately 254 kg (560 lb). Remove nuts (9).

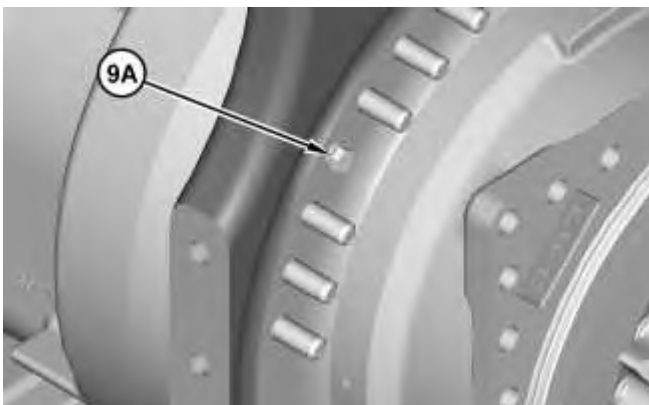


Illustration 6

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