



# Service Repair Manual

## **Models**

# 12M 3 AWD MOTOR GRADER

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Product: MOTOR GRADER

Model: 12M 3 AWD MOTOR GRADER N9P

Configuration: 12M Series 3 Motor Grader-All Wheel Drive N9P00001-UP (MACHINE) POWERED BY C9.3 Engine

## Disassembly and Assembly

### 12M Series 3, 140M Series 3 and 160M Series 3 Motor Graders Power Train

Media Number -UENR3483-02

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i05471731

## 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	138-7575	Link Bracket	4
B	140-7742	Sleeve	2
C	1U-9200	Lever Puller Hoist	1
D	154-6182	Forcing Bolt	3
E	138-7574	Link Bracket	2
F	8B-7551	Bearing Puller Gp	1
	1P-5546	Crossarm	1
	3H-0465	Push-Puller Plate	2
	5F-7366	Forcing Bolt	1
G	292-4949	Socket Wrench As	1
H	154-6183	Forcing Bolt	3
J	1U-6405	Three Jaw Puller	1

### Start By:

- a. Remove the rear axle.

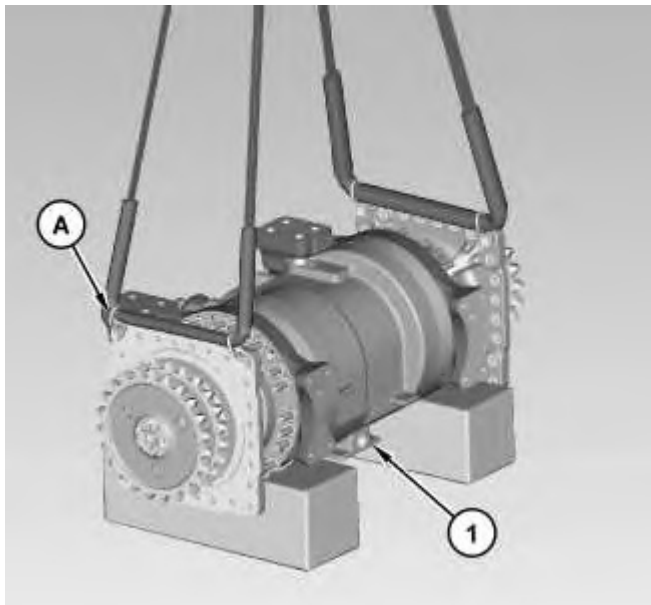


Illustration 1

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1. Use Tooling (A), Tooling (B), and two suitable lifting devices in order to position rear axle (1) onto suitable blocking. The weight of rear axle (1) is approximately 1089 kg (2400 lb).

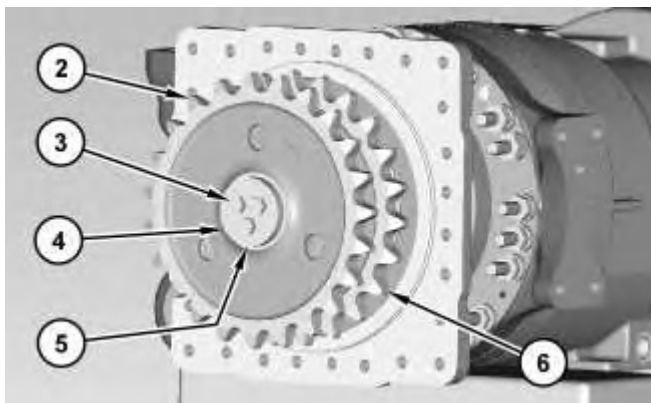


Illustration 2

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2. Remove bolts (3), retainer (4), shims (5), sprocket (2), and sprocket (6).

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

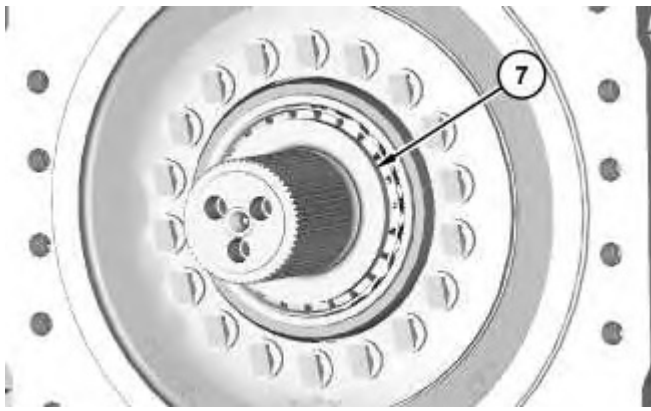


Illustration 3

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3. Remove bearing cone (7).

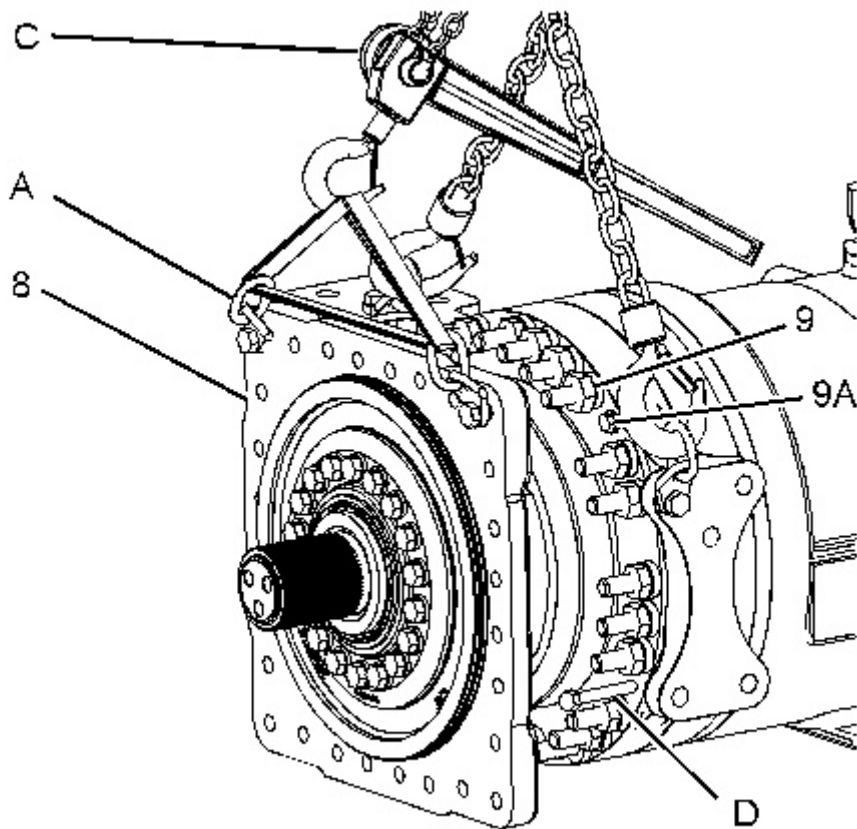


Illustration 4

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4. Attach Tooling (A), Tooling (C), and two suitable lifting devices onto final drive housing (8). The weight of final drive housing (8) is approximately 191 kg (420 lb). Remove nuts (9) and bolts (9A).
5. Use Tooling (D) in order to remove final drive housing (8).

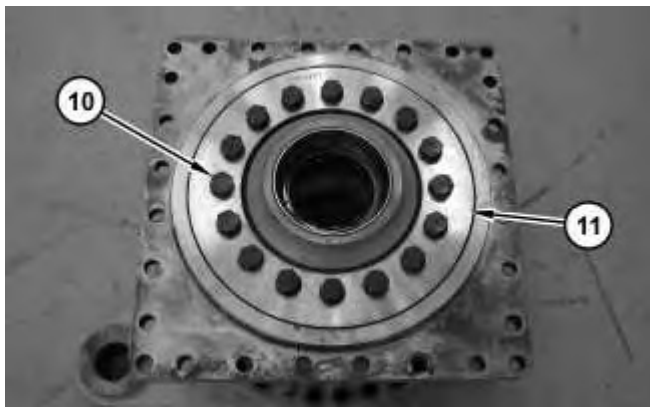


Illustration 5

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6. Remove bolts (10). Remove retainer (11).

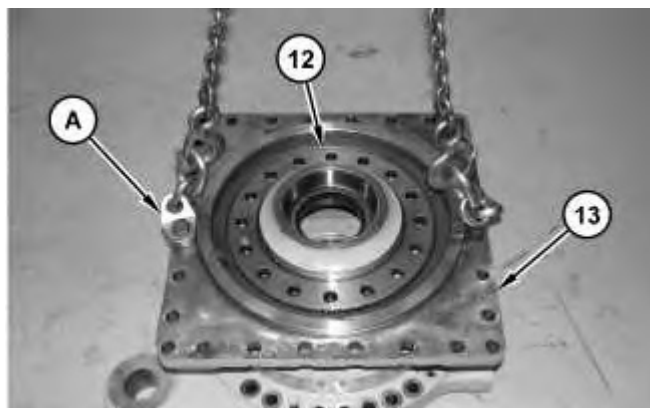


Illustration 6

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7. Remove shims (12). Use Tooling (A) and a suitable lifting device in order to remove housing (13). The weight of housing (13) is approximately 54 kg (120 lb).

**Note:** Note the quantity and the order of shims (12).



Illustration 7

g01352292

8. Remove thrust washer (14). Remove wear sleeves (15).

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