



# Service Repair Manual

## **Models**

# 12M 2 MOTOR GRADER

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Product: MOTOR GRADER

Model: 12M 2 MOTOR GRADER F9M

Configuration: 12M Series 2 Motor Grader F9M00001-UP (MACHINE) POWERED BY C9.3 Engine

## Disassembly and Assembly

### 12M Series 2, 140M Series 2 and 160M Series 2 Motor Graders Power Train

Media Number -KENR8899-03

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i06013976

## 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	Link Bracket	4
B	140-7742	Sleeve	2
C	386-6031	Lever Puller Hoist	1
D	154-6182	Forcing Bolt	3
E	439-3939	Link Bracket	2
F	8B-7551	Bearing Puller Gp	1
	1P-5546	Crossarm	1
	3H-0465	Push-Puller Plate	2
	5F-7366	Forcing Screw	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.

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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.

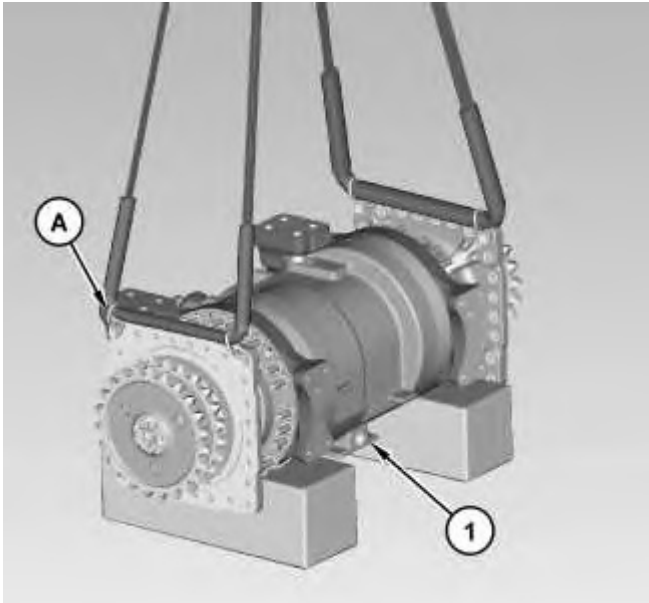


Illustration 1

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1. Use Tooling (A) , 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).

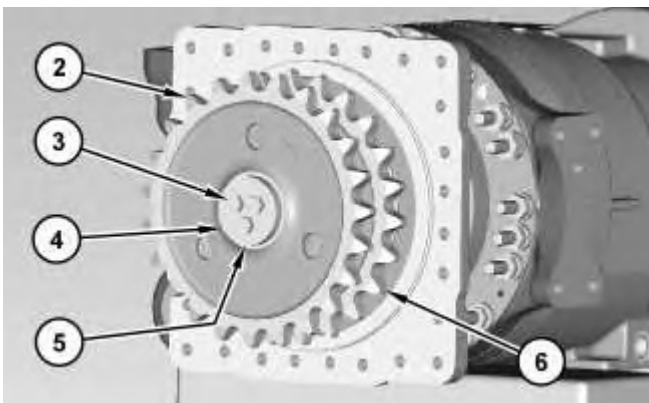


Illustration 2

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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) .

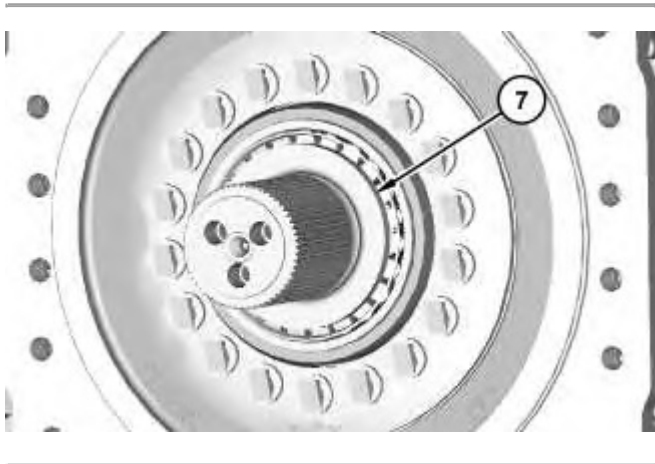


Illustration 3

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3. Remove bearing cone (7) .

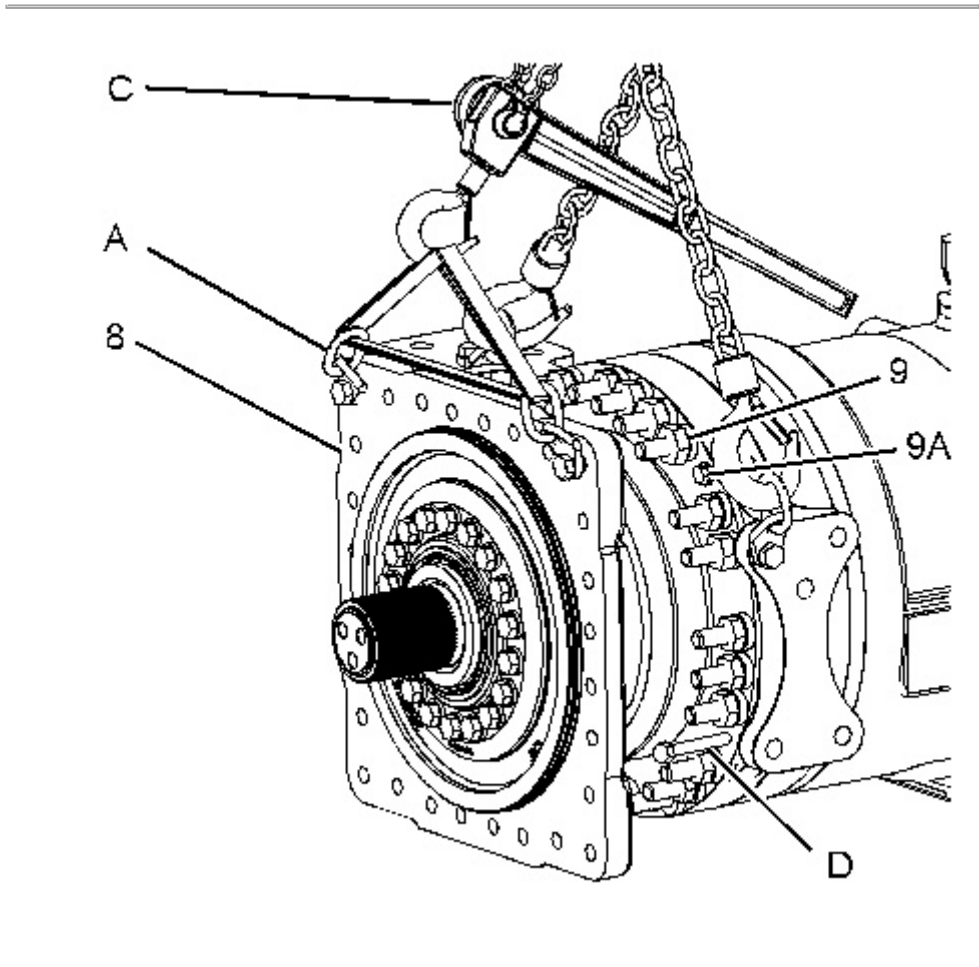


Illustration 4

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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) .

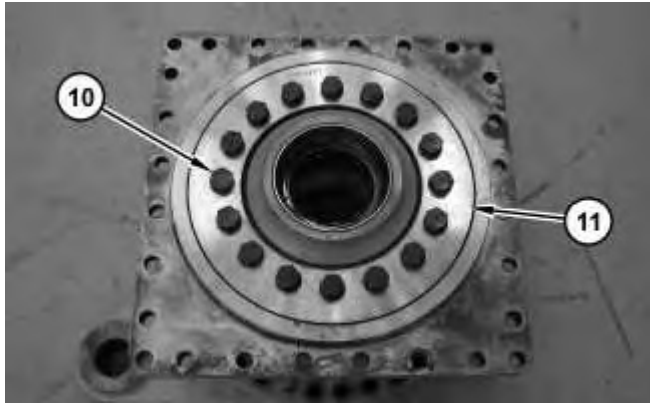


Illustration 5

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

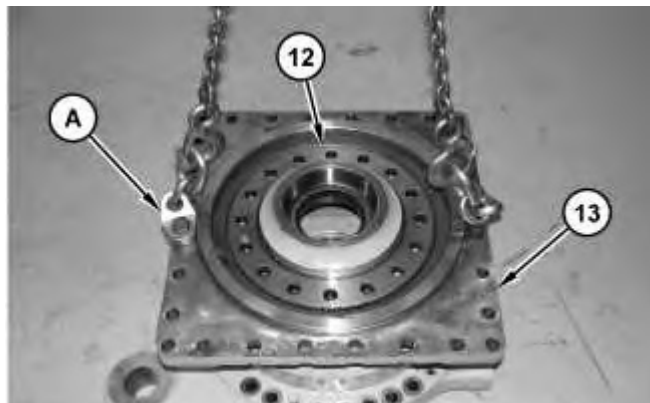


Illustration 6

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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) .

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