



Service Repair Manual

Models

12M 2 MOTOR GRADER

Product: MOTOR GRADER

Model: 12M 2 MOTOR GRADER R9S

Configuration: 12M Series 2 Motor Grader R9S00001-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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i05493253

Gear Group (All Wheel Drive) - Disassemble

SMCS - 4351-015-YW

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	140-7742	Sleeve	2
B	1U-9200	Lever Puller Hoist	1
	140-7742	Sleeve	1
	138-7575	Link Bracket	3
C	1P-2420	Transmission Repair Stand	1
D	1P-1859	Retaining Ring Pliers	1
E	154-6182	Forcing Bolt	2
F	1P-0820	Hydraulic Puller	1
	5P-9605	Stud	2
	3H-0468	Puller Plate	2
	350-7768	Electric Hydraulic Pump Gp (115V)	1
	350-7769	Electric Hydraulic Pump Gp (230V)	
	198-4904	Bearing Driver	1
	150-1782	Crossblock	1

Start By:

- a. Remove the gear assembly.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Put orientation and location marks on all fittings for installation purposes.

Note: Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Precision components can be damaged by contaminants or by dirt. Perform disassembly procedures on a clean work surface. Keep components covered and protected at all times.

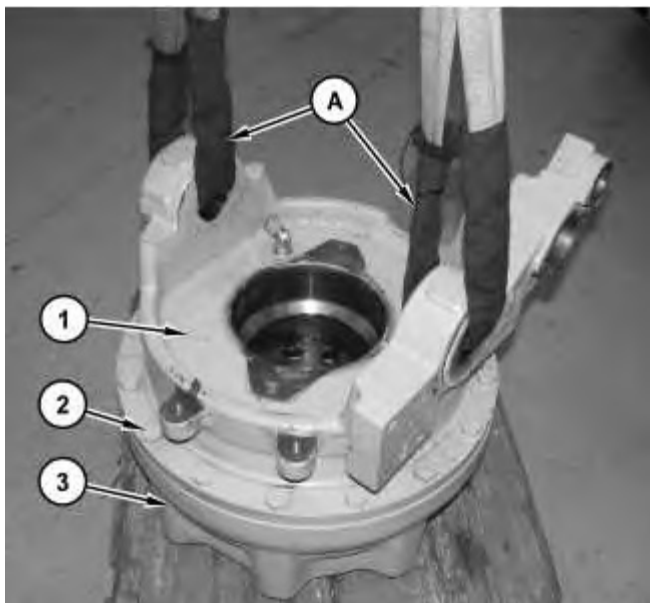


Illustration 1

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1. Attach Tooling (A) and a suitable lifting device to gear assembly (1). The weight of gear assembly (1) is approximately 181 kg (400 lb).
 2. Remove bolts (2).
 3. Use Tooling (A) and the suitable lifting device in order to separate gear assembly (1) from cover assembly (3). Remove Tooling (A).
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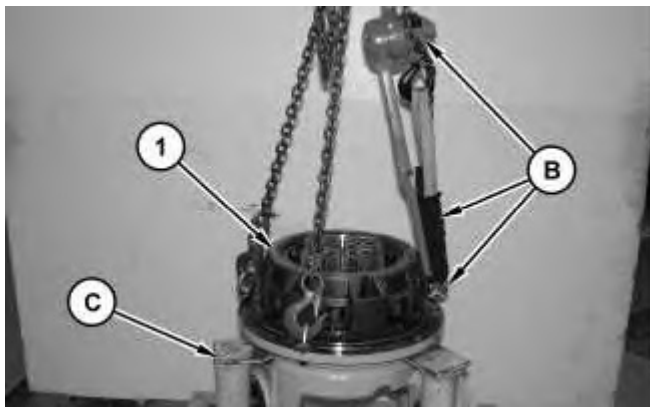


Illustration 2

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4. Attach Tooling (B) to gear assembly (1). The weight of gear assembly (1) is approximately 181 kg (400 lb). Use Tooling (B) and the suitable lifting device in order to position gear assembly (1) onto Tooling (C).

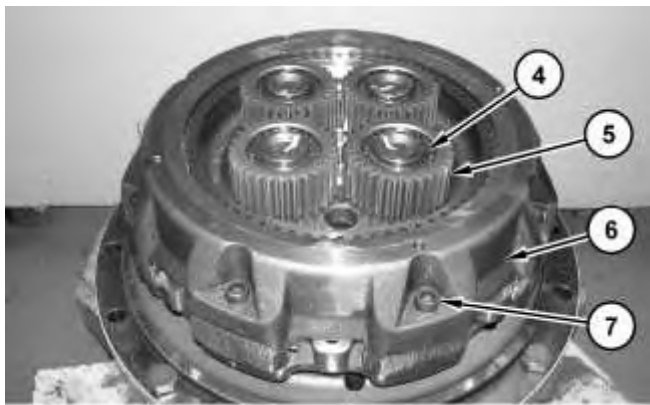


Illustration 3

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Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

5. Use Tooling (D) in order to remove retaining ring (4). Remove gear (5). Repeat this step for the remaining gears.
6. Remove bolts (7) in order to remove ring (6).

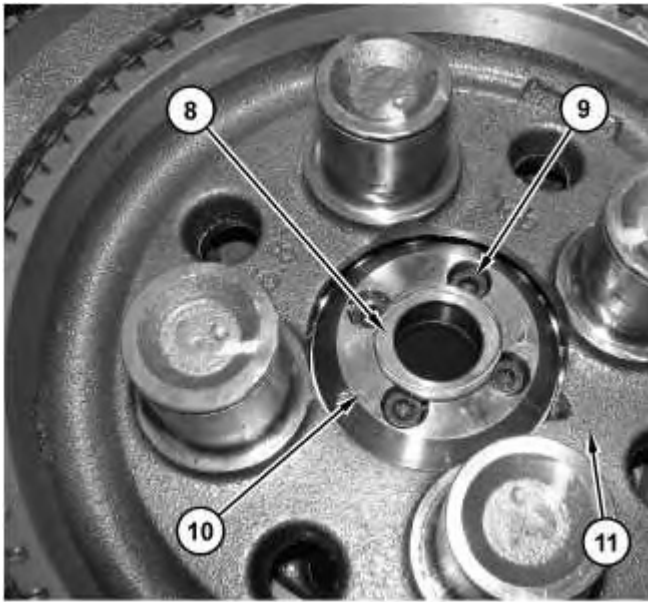


Illustration 4

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7. Remove pad (8).
8. Remove bolts (9) and plate (10).
9. Remove first reduction (11).



Illustration 5

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10. Remove clutch plates and friction discs (12). Remove springs (13).

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