



Service Repair Manual

Models

12H Motor Grader

Product: MOTOR GRADER

Model: 12H MOTOR GRADER CBK

Configuration: 12H Motor Grader CBK00001-UP (MACHINE) POWERED BY C-9 Engine

Disassembly and Assembly 12H, 140H and 160H Motor Graders Power Train

Media Number -REN4108-16

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Transmission - Disassemble

SMCS - 3002-015; 3030-015; 3159-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	1
B	154-6181	Forcing Screw	2
C	6V-5221	Bolt	1
D	4C-8156	Fixture	1
E	6V-3918	Bolt	1
F	4C-8157	Fixture	2
G	1U-6405	Three Jaw Puller	1
H	1U-6341	Threaded Rod	1
J	5P-7970	Nut	1
K	9U-7479	Compressing Tube	1
L	5B-0637	High Idle Nut	1
	5F-7353	Washer	1
	1B-4207	Full Nut	2
	5F-7369	Puller Leg	2
	3H-0465	Push-Puller Plate	2

	5F-7366	Screw	1
	5P-4808	Cap	2
	1U-9895	Crossblock	1
	9S-9151	Block	2
M	1B-4206	Nut	4
	8B-7552	Bolt	2
N	1U-6343	Threaded Rod	1
P	6V-8149	Nut	1
Q	2P-8312	Pliers	1
	1P-2326	Screw	1
	1P-2325	Head	1
R	3H-0462	Bolt and Nut	4
	8H-0709	Strap	4
	5F-7373	Jaw	3
S	3E-3882	Eyebolt	1

Start By:

- a. Remove the transmission control valve. Refer to Disassembly and Assembly, "Transmission Control Valve - Remove".
 - b. Remove the parking brake. Refer to Disassembly and Assembly, "Parking Brake - Remove".
 - c. Remove the transmission speed sensor.
 - d. Remove the transmission oil pump. Refer to Disassembly and Assembly, "Gear Pump (Transmission Charging and Scavenge) - Remove".
 - e. Remove the transmission magnetic screen base. Refer to Disassembly and Assembly, "Magnetic Screen - Remove and Install".
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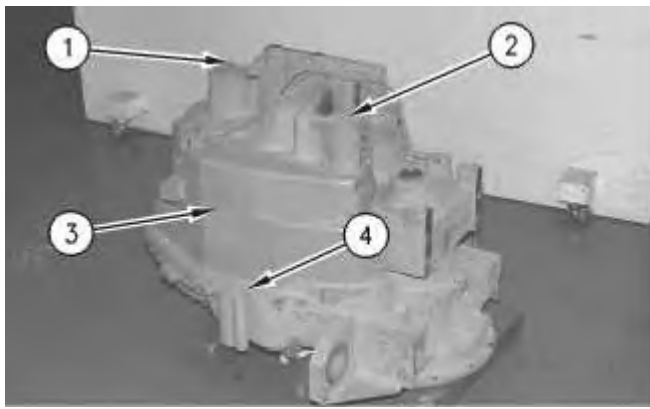


Illustration 1

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1. Place transmission (1) level on the floor.
2. Remove 12 bolts (2), four covers, and the O-ring seals from transmission case assembly (3).
3. Remove 41 bolts (4) from the transmission case assembly (3).



Illustration 2

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Note: Identify the location of seal carrier (5) in the transmission case assembly (3) for assembly purposes.

4. Remove two bolts (6) from seal carrier (5).
5. Install Tooling (A) (not shown) in seal carrier (5). Remove seal carrier (5) and the three ring seals from the transmission case assembly bore (7).
6. Repeat Step 4 through Step 5 on the three remaining seal carriers (5).

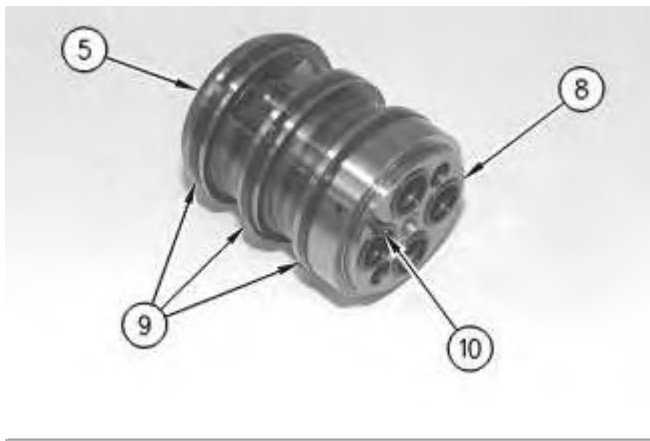


Illustration 3

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7. Remove seal rings (9) from seal carrier (5).
8. Remove three or four seals (8) from seal carrier (5).
9. Remove spring pin (10) from seal carrier (5).
10. Repeat Step 7 and Step 9 for the remaining three seal carriers (5).

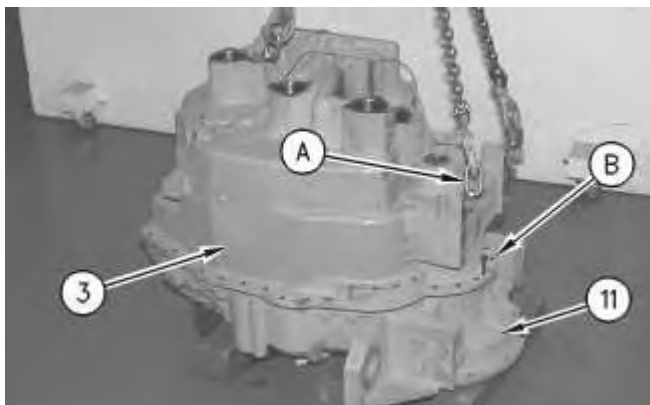


Illustration 4

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11. Install Tooling (B) in the transmission case assembly (3). Tighten Tooling (B) evenly to separate transmission case assembly (3) from transmission cover assembly (11).
12. Attach Tooling (A) to transmission case assembly (3). Position a lifting device to Tooling (A). Secure the lifting device to a hoist. Slowly raise the transmission case assembly (3) from the transmission cover assembly (11). Be careful not to bind the transmission case assembly (3) during separation.

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