



Service Repair Manual

Models

140G Motor Grader

Product: MOTOR GRADER

Model: 140G MOTOR GRADER 81V

Configuration: 140G MOTOR GRADER 81V01031-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly 12G,130G & 140G MOTOR GRADERS VEHICLE SYSTEMS

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SEN71420015

Wheel Spindles And Wheel Spindle Housings

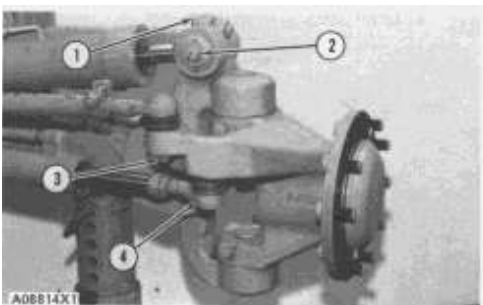
SMCS - 4205-11; 4205-12

Remove Wheel Spindles And Wheel Spindle Housing

Tools Needed		A	B
1P3075	Puller Group	1	
5F7340	Pulling Adapter		1
5F7353	Washer		1
5F7351	Nut		1
5F7366	Screw		1
7F9540	Puller Assembly		1
5P3100	Pump Group (or electric)		1
5P4197	Spacer		1

start by:

a) remove front wheels

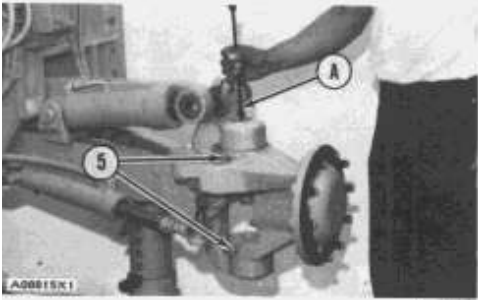


1. Install the lock pin in the wheel lean bar and the front axle. Remove the nut, washer and bolt (1) that hold the lock in position. Remove the lock.

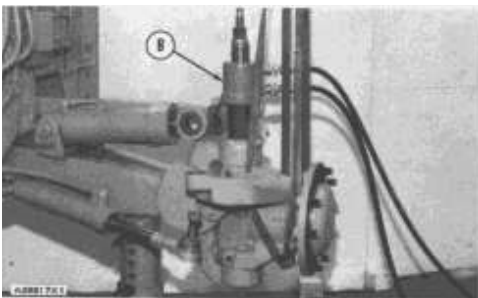
2. Remove bolt (2), the washer and the retainer. Remove the pin from the wheel lean cylinder. Do not remove the pin from the wheel lean arm. Start the engine. Move the cylinder rod into the wheel lean cylinder. Shut off the engine.

3. Remove the cotter pin from the steering tie rod pin. Loosen nut (3) until it is even with the end of the steering tie rod pin. Hit the nut with a hammer to loosen the pin from its taper. Move the steering tie rod away from the wheel spindle housing.

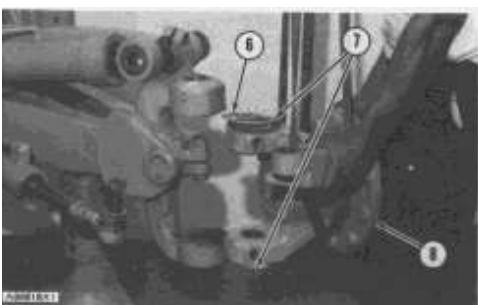
4. Repeat Step 3 for steering cylinder (4).



5. Remove the plug from the top and the bottom of the wheel lean arm with tooling (A). Remove the nuts, washers and bolts (5).



6. Fasten a hoist to the wheel spindle housing. Remove the pins from the wheel spindle housing and the wheel lean arm with tooling (B).



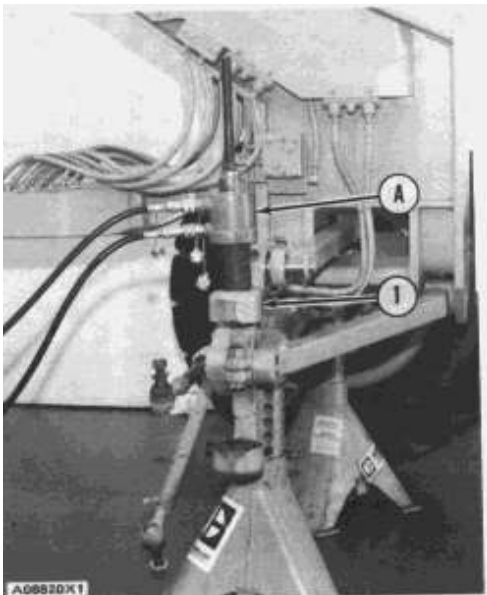
7. Remove wheel spindle and wheel spindle housing (8). Weight is 415 lb. (187 kg). Remove thrust pack (6) from the wheel lean arm. Remove the O-ring seals and seals (7) from the wheel spindle housing.

8. Remove the bearings from the wheel lean arm.

9. Repeat Steps 1 through 8 for the other wheel spindle and wheel spindle housing.

Install Wheel Spindles And Wheel Spindle Housings

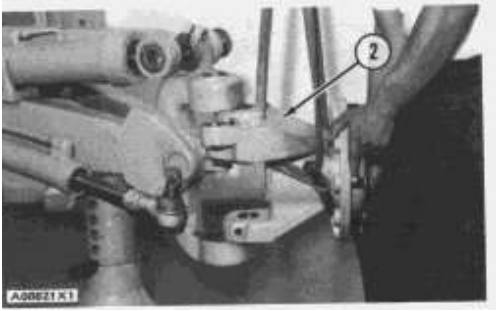
Tools Needed		A	B	C
5P4197	Spacer	1		
1P543	Nut	1		
1P1833	Pulling Adapter	1		
5F7353	Washer	1		
9S5559	Nut	1		
7F9540	Puller Assembly	1	1	
5P3100	Pump Group (or electric)	1	1	
1H3109	Leg		2	
1H3107	Puller Assembly		1	
5F7343	Bearing Puller Assembly		1	
L-1774	Spacer		6	
1P510	Driver Group			1



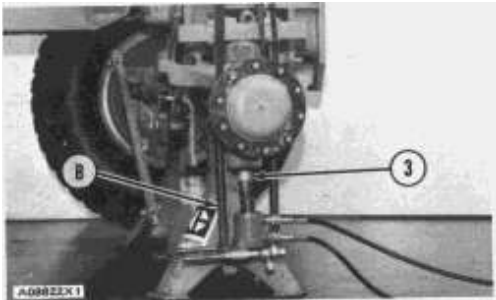
1. Install the bearings in wheel lean arm (1) with tooling (A). Install the bearings even with the surface that is toward the center of the wheel lean arm.

NOTICE

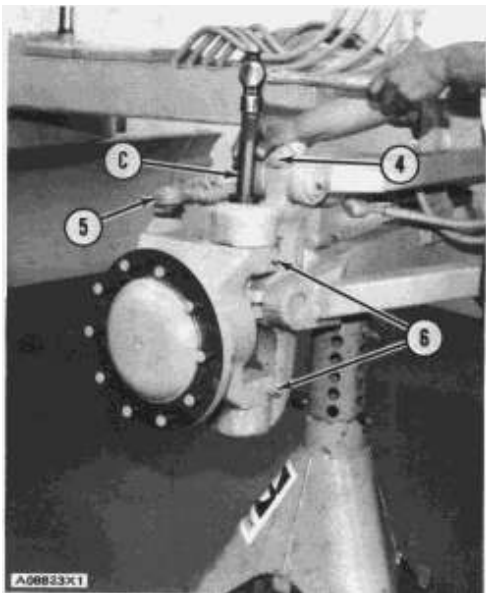
Tooling (A) must be used when the bearings are installed to prevent causing damage.



2. Install new O-ring seals and new seals in the top and the bottom of wheel spindle housing (2). Fasten a hoist to the housing. Put it in position on the wheel lean arm. Install the thrust pack between wheel spindle housing (2) and wheel lean arm (1) at the upper junction.



3. Lower the temperature of the two pins that hold the wheel spindle housing to the wheel lean arm. Install pins (3) with tooling (B). Make sure the groove in the pin is in alignment with the opening in the wheel spindle housing.



4. Install the bolts, washers and nuts (6) that hold the pins to the wheel spindle housing. Install the plugs in the wheel lean arm with tooling (C).

5. Start the engine. Move the wheel lean cylinder rod into position over the pin that holds the cylinder rod to the wheel lean arm and the wheel lean bar. Install the pin in the cylinder rod. Install the bolt, washer and the retainer on the end of the pin.

6. Install the lock, nut, washer and bolt (4). Tighten the bolt to a torque of 185 ± 10 lb.ft. (254 ± 14 N·m). Remove the lockpin from the wheel lean bar and the front axle.

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