



Service Repair Manual

Models

160H Motor Grader

Product: MOTOR GRADER

Model: 160H MOTOR GRADER 2FM

Configuration: 160H Motor Grader 2FM00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly 12H, 140H and 160H Motor Graders Machine Systems

Media Number -SEN8549-06

Publication Date -01/10/2011

Date Updated -12/10/2011

i01584480

Blade Lift - Remove

SMCS - 5219-011; 5222-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-3175	Double Acting Cylinder	1
	4C-5809	Electric Hydraulic Pump	1
	5P-4184	Tool Stud	1
	9U-6832	Nut	1
	4K-0684	Hard Washer	1
	1P-1837	Bearing Puller Adapter	1
	9S-8546	Installer	1
B	6V-3175	Double Acting Cylinder	1
	4C-5809	Electric Hydraulic Pump	1
	9S-8546	Installer	1
	6V-2078	Stud	1
	1P-1834	Adapter	1
	1A-1935	Full Nut	1
	5P-8250	Washer	1

Start By:

- A. Remove the centershift cylinder. Refer to Disassembly and Assembly, "Centershift Cylinder - Remove" for the correct procedure.
- B. Remove the blade lift cylinder. Refer to Disassembly and Assembly, "Blade Lift Cylinder - Remove" for the correct procedure.

Note: Cleanliness is an important factor. Before the removal procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal components.

- 1. Release the centershift lock pin from the centershift lock bar.

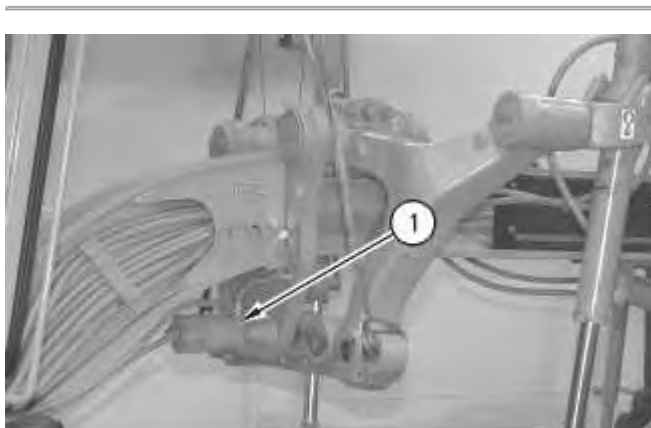


Illustration 1

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Typical Example

- 2. Position suitable lifting slings to the locator holes at the ends of the bar assembly. Secure the lifting slings to a hoist. The weight of the bar assembly is 73 kg (160 lb).

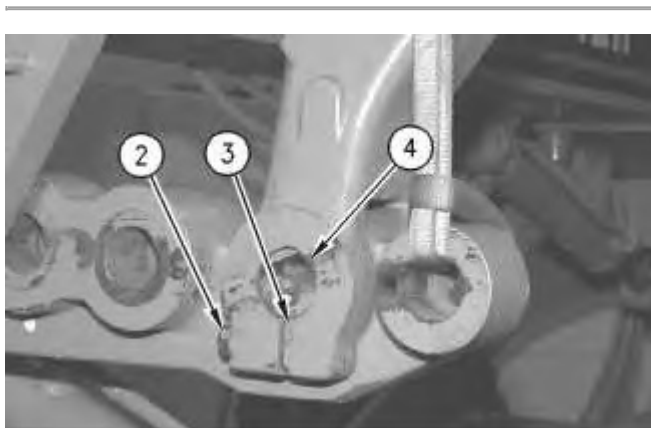


Illustration 2

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- 3. Remove two bolts (2) from the blade lift arm that is on the right side of the machine.

4. Remove lock (3) and remove pin (4) that holds the blade lift arm to the bar assembly.

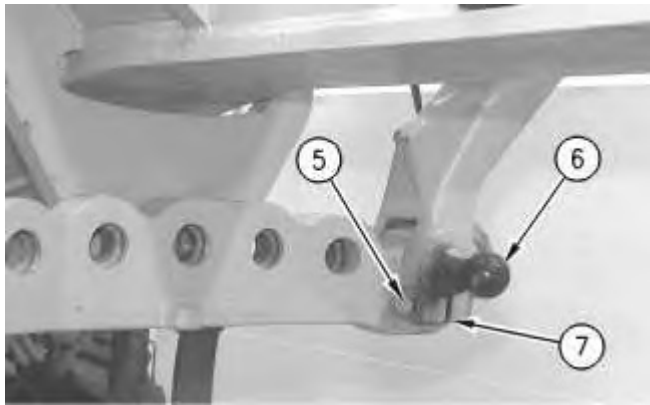


Illustration 3

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5. Remove two bolts (5) from the blade lift arm that is on the left side of the machine.
6. Remove pin (6) and remove lock (7) that holds the blade lift arm to the bar assembly.
7. Remove the bar assembly.
8. Position suitable lifting slings around the blade lift arm. Secure the lifting slings to a hoist. The weight of the blade lift arm is 97 kg (214 lb).

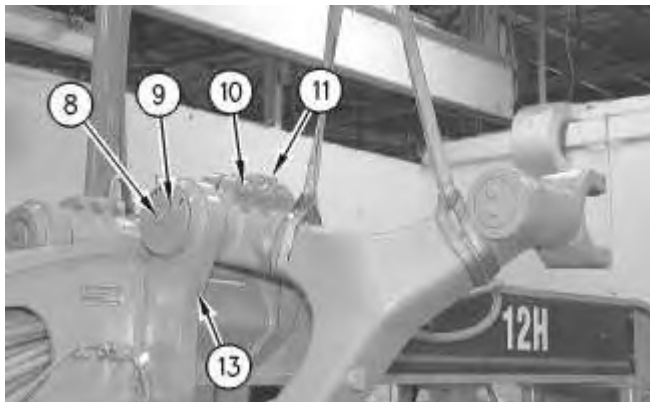


Illustration 4

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9. Remove the blade lift cylinder. Refer to Disassembly and Assembly, "Blade Lift Cylinder - Remove" for the proper procedure.
10. Remove bolt (8) from plate (9) .
11. Remove plate (9) from the frame and the pin.
12. Remove three bolts (10) from the arm assembly.

13. Remove lock (11) from the frame and the pin.

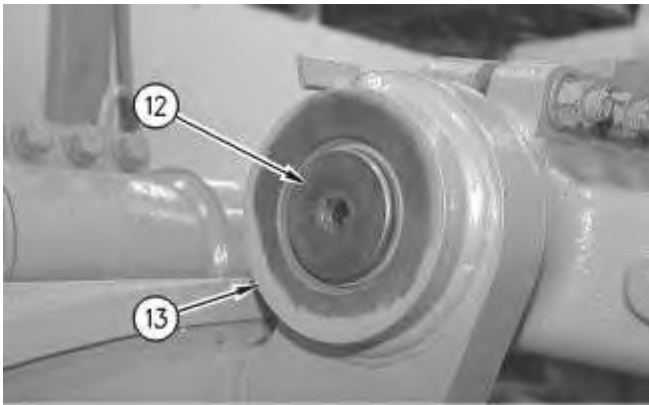


Illustration 5

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14. Remove pin (12) that holds the top of the lift arm to machine frame (13) .

15. Remove the blade lift arm from the machine.

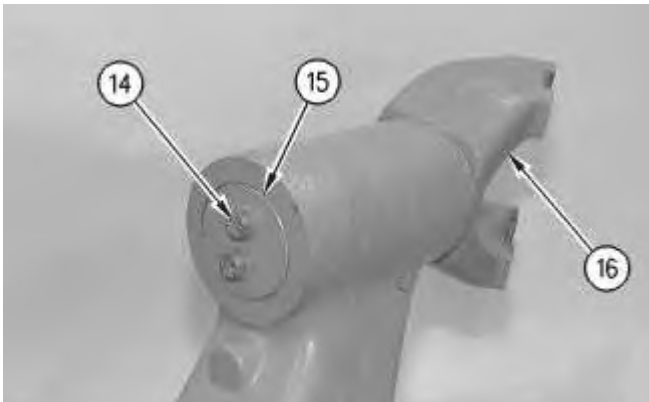


Illustration 6

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