



# Service Repair Manual

## **Models**

140M Series 3 Motor Grader

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Product: MOTOR GRADER

Model: 140M 3 MOTOR GRADER N9D

Configuration: 140M Series 3 Motor Grader N9D00001-UP (MACHINE) POWERED BY C9.3 Engine

## Disassembly and Assembly

### 12M Series 3, 140M Series 3 and 160M Series 3 Motor Graders Machine Systems

Media Number -UENR3488-02

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i05467189

## Articulation Cylinder - Remove and Install - Left Side

SMCS - 5265-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	311-1362	Vacuum Cap	1
B	1P-1832	Adapter	1
	4C-9633	Puller Stud	1
	1A-1935	Full Nut	1
	6V-3160	Double Acting Cylinder	1
	9S-5565	Pin Puller Sleeve As	1
	350-7768	Electric Hydraulic Pump Gp (115V)	1
	350-7769	Electric Hydraulic Pump Gp (230V)	1

#### Start By:

- a. Release the system pressure.



**When you are using hydraulic cylinders and puller studs, always ensure that the rated capacity of the puller stud meets or exceeds the rated capacity of the hydraulic cylinder. If the puller stud does not meet or**

**exceed the rated capacity of the hydraulic cylinder, a sudden failure of the puller stud could occur. The sudden failure of the puller stud could result in personal injury or death.**

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## **NOTICE**

**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, PERJ1017, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat<sup>®</sup> products.**

**Dispose of all fluids according to local regulations and mandates.**

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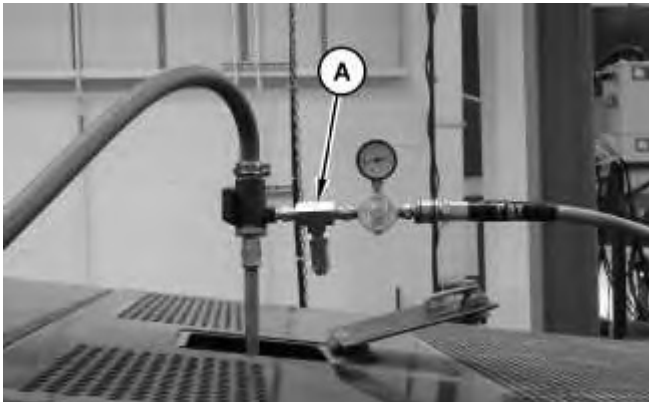


Illustration 1

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1. Install Tooling (A) onto the hydraulic tank. Attach an air supply hose onto Tooling (A). Apply 138 kPa (20 psi). This procedure will pull a vacuum on the hydraulic system.
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Illustration 2

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2. Open door assembly (1) on the left side.

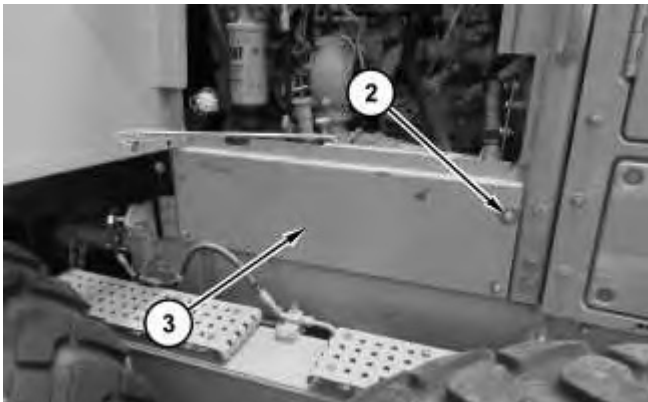


Illustration 3

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3. Remove bolts (2) and reposition panel assembly (3).

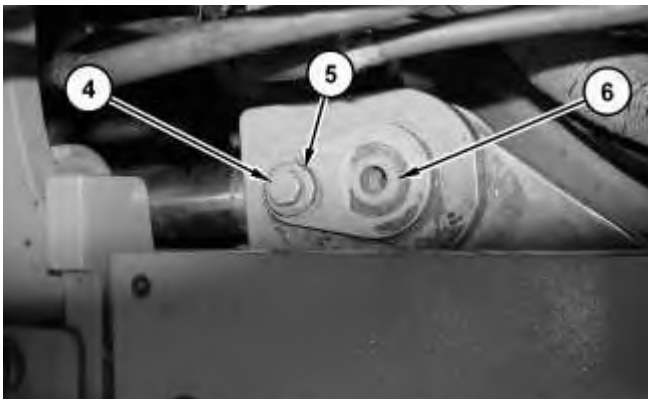


Illustration 4

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4. Remove bolt (12), bushing (13), and pin assembly (14).

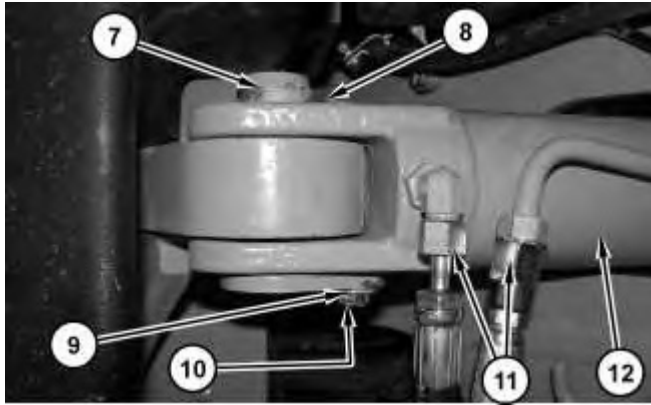


Illustration 5

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5. Disconnect hose assemblies (11). Remove cotter pin (8), bolt (10), and bushing (9). Remove pin assembly (7). The weight of articulation cylinder (12) is approximately 34 kg (75 lb). Use two people in order to remove articulation cylinder (12).



Illustration 6

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6. Remove seal assemblies (13).

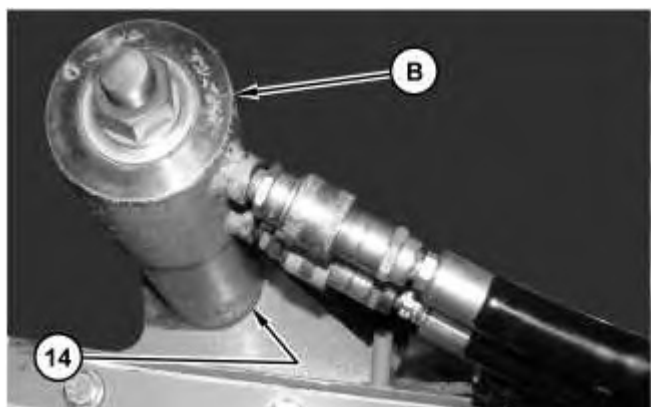


Illustration 7

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