

John Deere 6700 Self-Propelled Sprayer Service Repair Technical Manual (TM1742)

6700 Self-Propelled
Sprayer Repair



REPAIR TECHNICAL MANUAL Self-Propelled Sprayers models 6700

TM1742 08 MAY 13 (ENGLISH)

For complete service information also see:

6700 Self-Propelled Sprayer Diagnostic	TM1834
Series 300, 3029, 4039, 4045, 6059 and 6068 Diesel Engines	CTM8
Alternators and Starting Motors	CTM77
CTM441 - Machine Connection Information	CTM441
PowerTech 4.5L and 6.0L Diesel Engines Fuel Systems	CTM207
120 Series Hydraulic Cylinders	
PowerTech 4.5L & 6.0L Diesel Engines	
IIIA, Tier 3/Stage IIA Tier 3/Stage IIB	
100 Series Hydraulic Cylinders	

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TM1742

Covers: 6700

Type: Service Manual

Language: English

Pages: 560

Format: PDF

Features: Bookmarked, searchable, printable

Compatibility: Windows/Mac/Tablet/Mobile

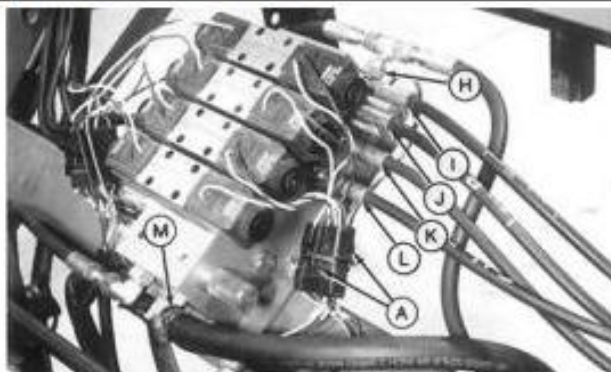
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 6700 Self-Propelled Sprayer Service Repair Technical Manual (TM1742)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

Contents:

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

**Left Side**

Disconnect four wiring connectors (A).

→NOTE:

There is a (0.046 in.) orifice plate in fitting (H). Retain orifice for use in valve installation.

[7] - Disconnect hoses (C—M).

[8] - Remove four cap screws, and boom valve.

[9] - Make repairs as necessary. (See procedure in this group.)

[10] - Install selector valve using four cap screws.

[11] -

IMPORTANT:

Always use new O-rings.

→NOTE:

Install (0.046 in.) orifice (B) in fitting (H) during hose connection.

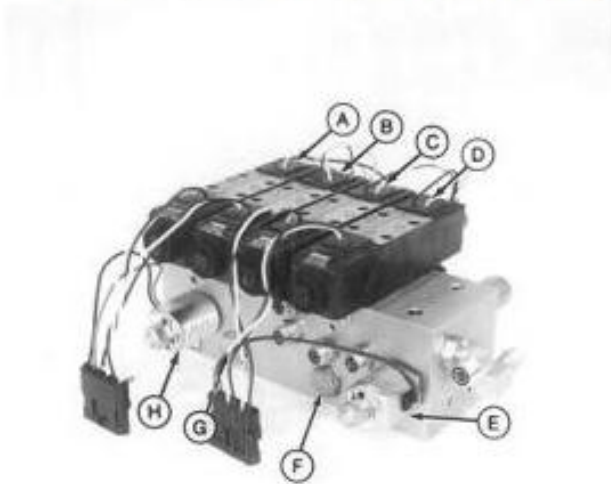
Connect hoses (C—M) using new O-rings.

[12] - Connect wiring connectors.

[13] - Fill reservoir to center of sight glass with recommended oil. (See FUELS AND LUBRICANTS in Section 10, Group 15.)

[14] - Start engine. Operate controls. Check for leaks.

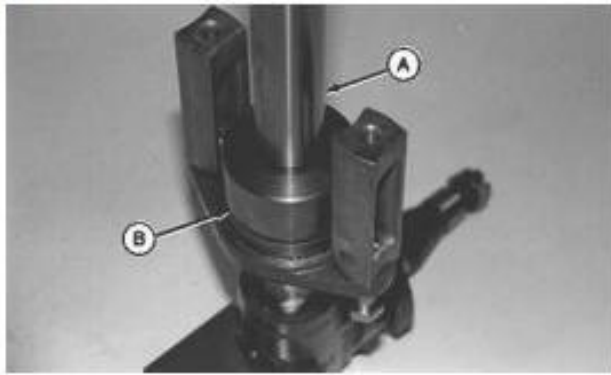
Disassemble Boom Control Hydraulic Valve—18.3 m (60 ft) Boom

**LEGEND:**

A	Left Level Solenoid
B	Left Fold Solenoid
C	Right Level Solenoid
D	Right Fold Solenoid
E	Pressure/Dump Solenoid
F	Right Unfold Check Valve
G	Left Unfold Check Valve
H	Boom Raise Solenoid Valve
I	Boom Lower Solenoid Valve
J	Left Fold Check Valve
K	Right Fold Check Valve
L	Boom Circuit Relief Valve

Boom Control Hydraulic Valve Components

[21] -



LEGEND:

- A Shaft
- B Lower End Cap

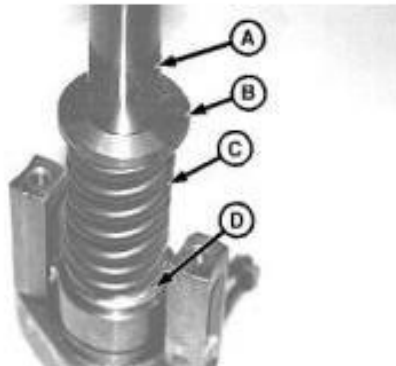
Apply Grease to Shaft

Apply John Deere PT507

Number	Name	Use
• PT507 (us)	Multi-Purpose Lithium Grease	To coat spindle shaft and related parts during assembly.

multi-purpose grease to shaft (A) and install lower end cap (B).

[22] -



LEGEND:

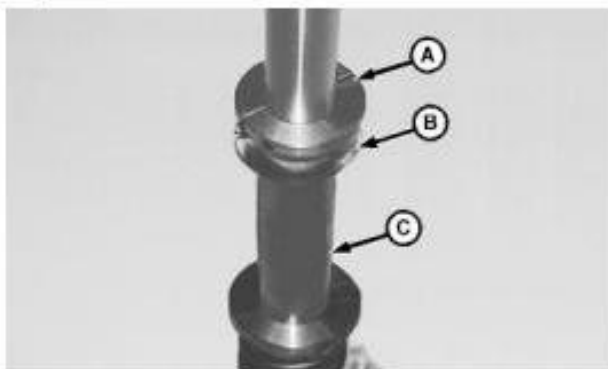
- A Shaft
- B Thick Washer
- C Small Spring
- D Thin Washer

Install Washers and Spring on Shaft

Thin washer (D) has been replaced with a thrust washer.

[23] - Install thin washer (D), small spring (C), and thick washer (B), on shaft (A) as shown.

[24] -



LEGEND:

- A Two-Piece Clamp
- B Thin Washer
- C Spacer

Install Spacer, Washer, and Clamp

Install spacer (C), thin washer (B), and two-piece clamp (A). Tighten clamp cap screws evenly so gap between clamp halves are the same on both sides. Tighten cap screws to specification.

Item	Measurement	Specification
Two-Piece Clamp Cap Screws	Torque	41 N·m (30 lb-ft)

[25] -



Thank you very much
for your reading.
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to get more information.