

**INSPECT, REMOVE, AND INSTALL  
DISCHARGE VALVE SEATS**

1. Vise discharge seats (B) with your finger accessing seat through the discharge valve bore. This should be done before inspection since if an valve seat may give impression of seat damage.

2. Visually inspect discharge valve seats (B) for pitting or damage.

**IMPORTANT:** Pitting is critical for sealing. DO NOT remove discharge valve seats unless replacement is absolutely necessary.

3. Install special screw (A) into seat through piston bore and JCH306-1 Installer and Removal Tool (A) through discharge valve bore.

4. Install a slide hammer and adapter into the tool and remove seat.



5. Install new discharge valve seats (B) using JCH306-1 Installer and Removal Tool (A). Drive seat into housing until flange of tool is against face of housing.



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**REMOVE AND INSTALL PUMP SHAFT**

**IMPORTANT:** Pistons must be installed in the original bore if reused.

1. Remove piston assemblies. (See Remove and Inspect Piston Assemblies, this group.)

2. Remove pressure compensator housing (and auxiliary gear-driven charge pump if so equipped on single bank pump) and secondary housing on double bank pump. (See Remove and Install Pressure Compensator Housing, this group.)

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**IMPORTANT:** Discharge valves must be installed in the original bore.

3. Remove discharge valve assemblies and place in a parts bin.

4. Remove the secondary bank pump using a hammer to remove bearing cap. Lift shaft from primary housing on double bank pump.



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5. Replace oil seal (and guard ring and backup ring on non-ventilated pumps) before installing pump shaft. (See Remove and Install Oil Seal/Pump Disassembled, this group.)

6. Install pump shaft in primary housing using JCH304 Spine Protector to prevent seal damage.

**NOTE:** Install bearing cap on single bank pump bearing cap partially away from bearing cone. Installation of sleeve and pressure compensator housing will properly align bearing cap and cone.



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# John Deere Ctm7 Technical Component Manual

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## **John Deere Ctm7 Technical Component Manual:**

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