John Deere 4555, 4560, 4755, 4760, 4955, 4960 Tractors Diagnosis and Tests Service Manual (tm1461)

4555, 4755, 4955 and 4560, 4760, 4960 Tractors Operation and Test



John Deere Waterloo Works TM1461 (21MAY01)

Covers: 4555,4560,4755,4760,4955,4960

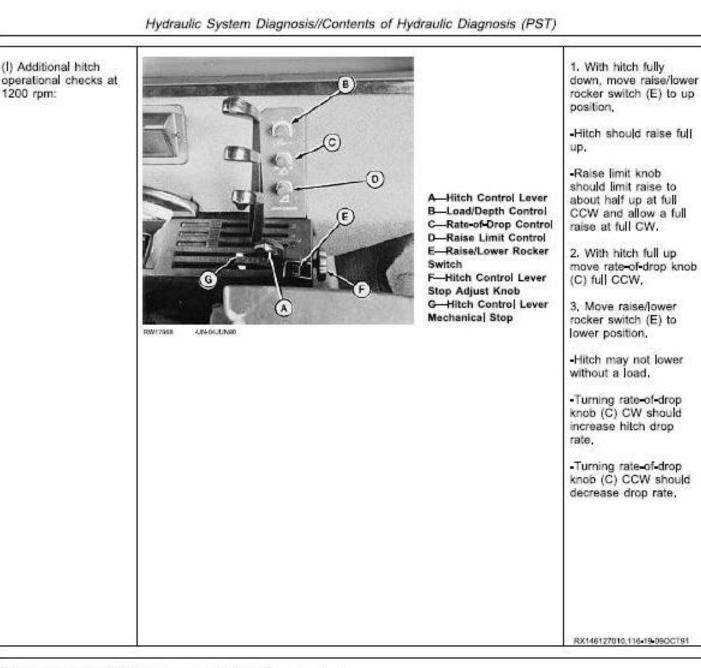
Type: Service Manual Language: English Pages: 1000 Format: PDF Features: Bookmarked, searchable, printable Compatibility: Windows/Mac/Tablet/Mobile This service manual contains important information for the maintenance, troubleshooting and servicing of the John Deere 4555, 4560, 4755, 4760, 4955, 4960 Tractors Diagnosis and Tests Service Manual (tm1461)

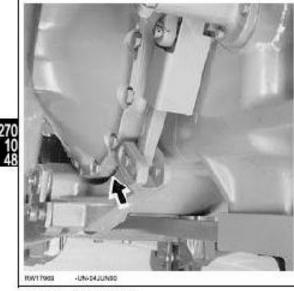
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

Contents:

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
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- Body Panels
- Disassembly and Assembly
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- 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.





4. Optional:

With load/depth knob full CW, move hitch control lever rearward to slightly raise hitch.

Using a 60-90 cm (2-3 ft) pry bar between draft arm and transmission case forward of right-hand axle housing, pry down on draft arm.

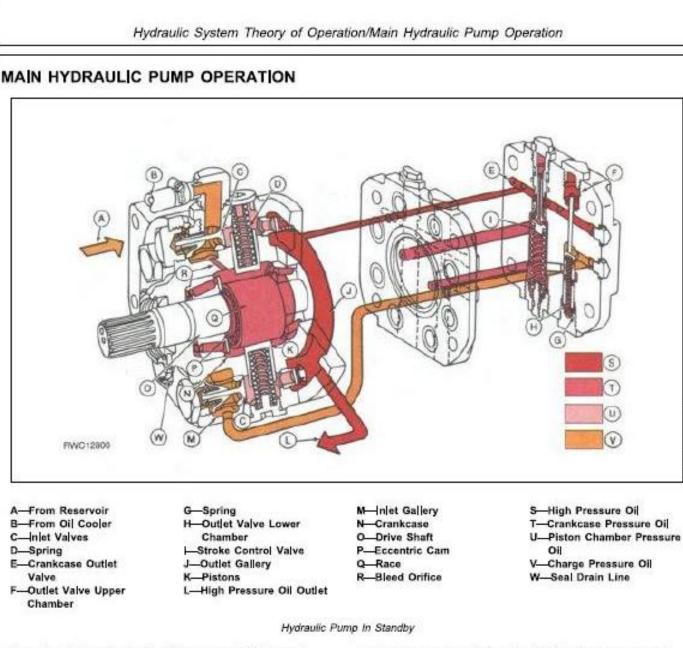
 Hitch should raise slightly with a down pressure and return to starting height when pressure is released.

Operate external raise/lower switch at rear left-hand fender to verify switch will slowly raise and lower hitch.

TM1461 (21MAY01)

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Oil cooler (B) and/or hydraulic reservoir (A) supply charge oil to main pump. Annular inlet gallery (M) allows oil to surround each of eight inlet valves (C). Within the pump crankcase (N), pump drive shaft (O) and eccentric cam (P) rotate, moving race (Q). Eight pistons (K) extend into crankcase.

When there is no demand for oil, pump is on standby and no oil is being pumped. Pressure in outlet gallery (J) remains at 17 500 kPa (175 bar) (2550 psi). Pressure oil from outlet gallery flows into the upper chamber (F) and holds crankcase valve closed against spring (G). Increased pressure opens stroke control valve (I) and oil is admitted to crankcase. This increased volume of oil holds pistons outward from race against spring (D) pressure.Pistons are now stationary and pump no oil.

A bleed orifice (R) in pump housing allows a small amount of oil to leak from crankcase to inlet gallery. When crankcase pressure lowers, pump goes back into stroke to make up oil loss. This occurs several times a minute to maintain a small flow which cools and lubricates pump components.

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