

# John Deere 444JR Forklift 4WD Loader (SN. 620388-) Service Repair Technical Manual (TM11203)

640H and 648H Skidde  
(SN. -630435) Diagnostic



JOHN HARE



COLLECTION

## OPERATION AND TEST MANUAL

Cable models 640H; Grapple models 648H

TM10312 30 JUN 15 (ENGLISH)

### For complete service information also see:

JDLINK (MTG) Technical Manual	TM114519
640H and 648H Skidder (SN. -630435)	TM10313
Alternators and Starting Motors	CTM77
TM1V1200 - 1400 Series Inboard Planetary Gears	CTM442
60 and 6000 Winches	CTM41
PowerTech 4045, 4045A, 4045B, 4045C, 4045D, 4045E, 4045F, 4045G, 4045H, 4045I, 4045J, 4045K, 4045L, 4045M, 4045N, 4045O, 4045P, 4045Q, 4045R, 4045S, 4045T, 4045U, 4045V, 4045W, 4045X, 4045Y, 4045Z, 4045AA, 4045AB, 4045AC, 4045AD, 4045AE, 4045AF, 4045AG, 4045AH, 4045AI, 4045AJ, 4045AK, 4045AL, 4045AM, 4045AN, 4045AO, 4045AP, 4045AQ, 4045AR, 4045AS, 4045AT, 4045AU, 4045AV, 4045AW, 4045AX, 4045AY, 4045AZ, 4045BA, 4045BB, 4045BC, 4045BD, 4045BE, 4045BF, 4045BG, 4045BH, 4045BI, 4045BJ, 4045BK, 4045BL, 4045BM, 4045BN, 4045BO, 4045BP, 4045BQ, 4045BR, 4045BS, 4045BT, 4045BU, 4045BV, 4045BW, 4045BX, 4045BY, 4045BZ, 4045CA, 4045CB, 4045CC, 4045CD, 4045CE, 4045CF, 4045CG, 4045CH, 4045CI, 4045CJ, 4045CK, 4045CL, 4045CM, 4045CN, 4045CO, 4045CP, 4045CQ, 4045CR, 4045CS, 4045CT, 4045CU, 4045CV, 4045CW, 4045CX, 4045CY, 4045CZ, 4045DA, 4045DB, 4045DC, 4045DD, 4045DE, 4045DF, 4045DG, 4045DH, 4045DI, 4045DJ, 4045DK, 4045DL, 4045DM, 4045DN, 4045DO, 4045DP, 4045DQ, 4045DR, 4045DS, 4045DT, 4045DU, 4045DV, 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Super Caddy Oil Cleanup Product	
DF180 Series Powershift Transmissions	
40 and 4000 Winches	CTM25
120 Series Hydraulic Cylinders	CTM114319
125 Series Hydraulic Cylinders	CTM109319
PowerTech 4.5L & 6.8L Diesel Engines Tier 1/Stage I, Tier 2/Stage II, Tier 3/Stage IIIA, Tier 3/Stage IIA, Tier 3/Stage III, (Base Engine)	CTM104
JDLINK/ZXLINK Machine Monitoring System	CTM10006



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This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 444JR Forklift 4WD Loader (SN. 620388-) Service Repair Technical Manual (TM11203)**

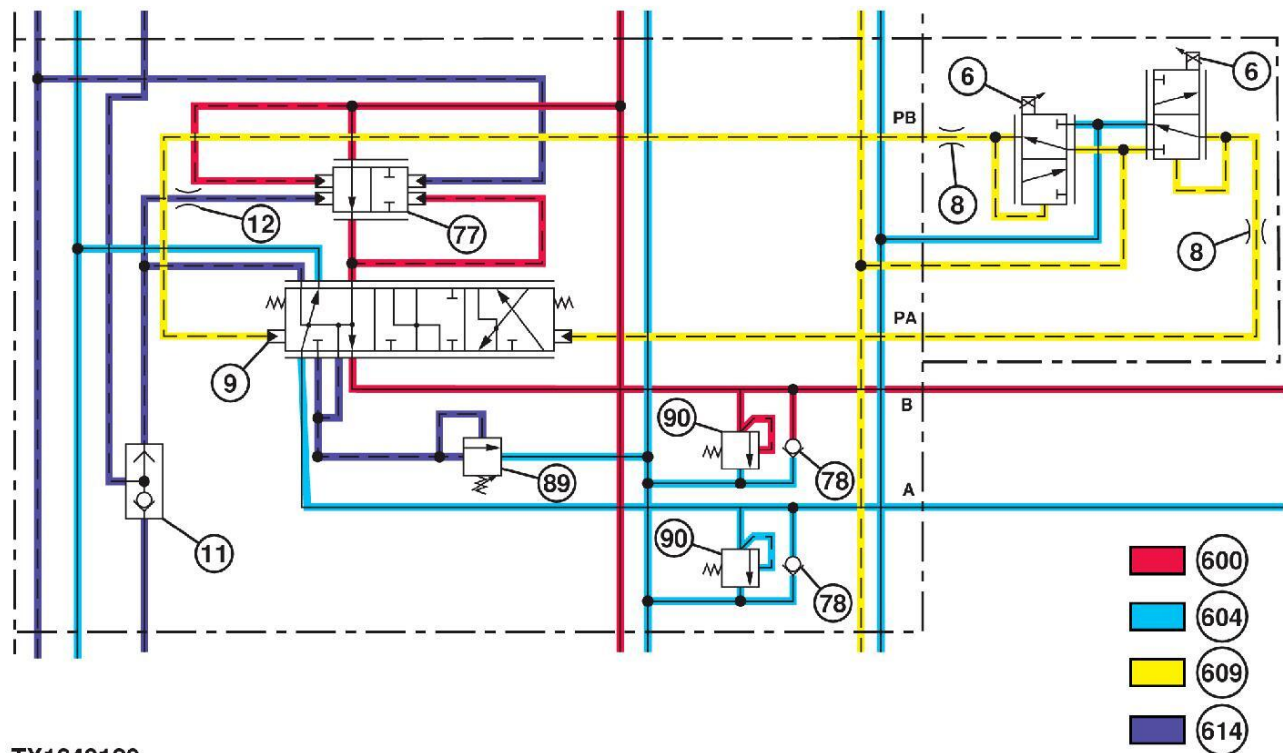
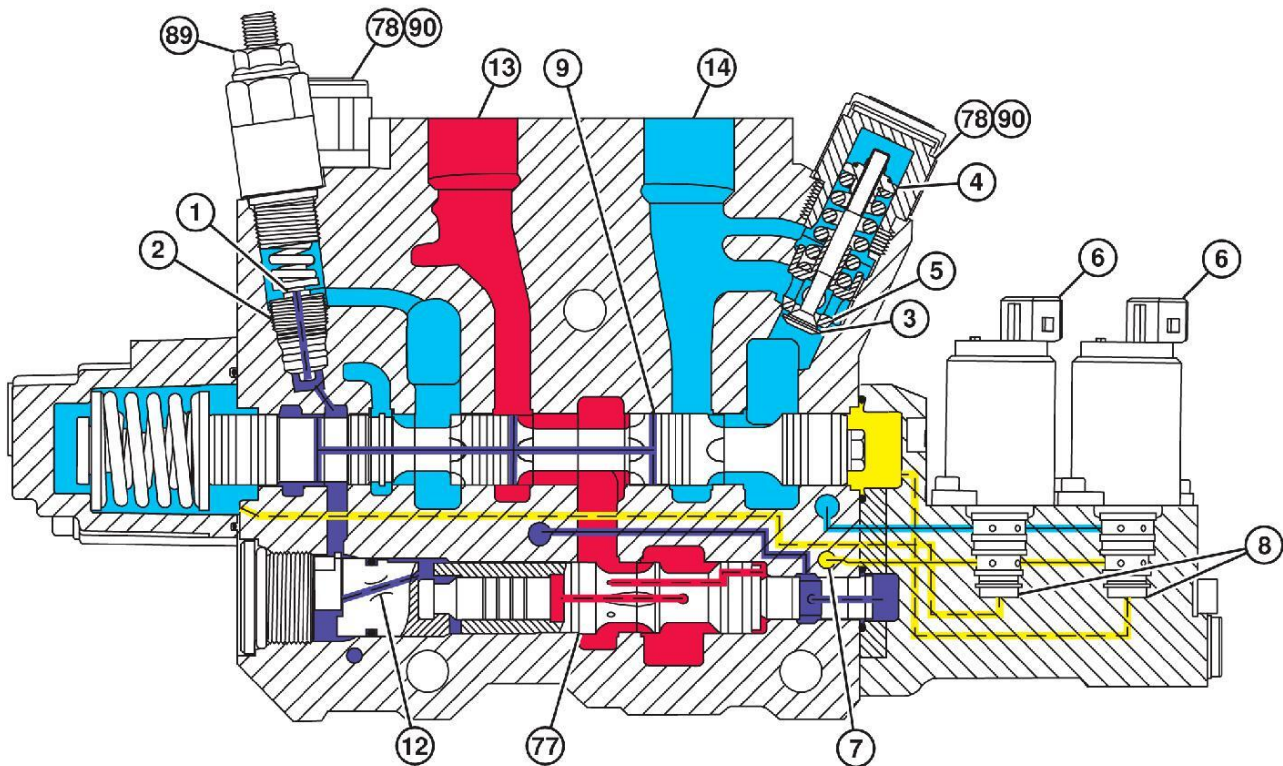
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**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
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- 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.

# Theory of Operation



## TX1243120

TX1243120-UN: Directional Valve Section (with feed reducer, port B shown activated)

### LEGEND:

- 1-Poppet
- 2-Poppet Orifice
- 3-Relief Poppet
- 4-Relief Spring Seat
- 5-Relief Spring
- 6-Relief Spring Seat
- 7-Relief Spring
- 8-Relief Spring
- 9-Control Valve Spool
- 11-Priority Check Valve
- 12-Orifice
- 13-Port B
- 14-Port A
- 78-Circuit Relief Valve (2 used, with anticavitation, if equipped)
- 89-Circuit Relief Valve (2 used, with anticavitation, if equipped)
- 90-Circuit Relief Valve (2 used, with anticavitation, if equipped)
- 600-High-Pressure Oil
- 604
- 609
- 614



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