


# John Deere 624H 4WD Loader and TC62H Tool Carrier Loader Service Repair Technical Manual (tm1640)

624H 4WD Loader and  
TC62H Tool Carrier Loader  
Repair





**REPAIR TECHNICAL MANUAL**

**4WD Loaders models 624H, Tool Carrier Loaders models TC62H**


TM1640 28 MAR 07 (ENGLISH)

**For complete service information also see:**

|  |        |
|--|--------|
| 624H 4WD Loader and TC62H Tool Carrier Loader Diagnostic                           | TM1639 |
| Alternators and Starting Motors  | CTM77  |
| Super Caddy Oil Cleanup Procedure  | CTM310 |
| TeamMate III 1000, 1200, and 1400 Series On-board Planetary Axles                  | CTM150 |
| PowerTech 4.5L & 5.8L Engines Tier 2/Stage II, Tier 3/Stage IIIA, Tier 3/Stage IIB | CTM104 |

**PDF**  **DOWNLOAD** 

John Deere Construction and Forestry  
Printed by Belgreen



TM1640

**Covers:** 624H,TC62H

**Type:** Service Manual

**Language:** English

**Pages:** 634

**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 624H 4WD Loader and TC62H Tool Carrier Loader Service Repair Technical Manual (tm1640)**

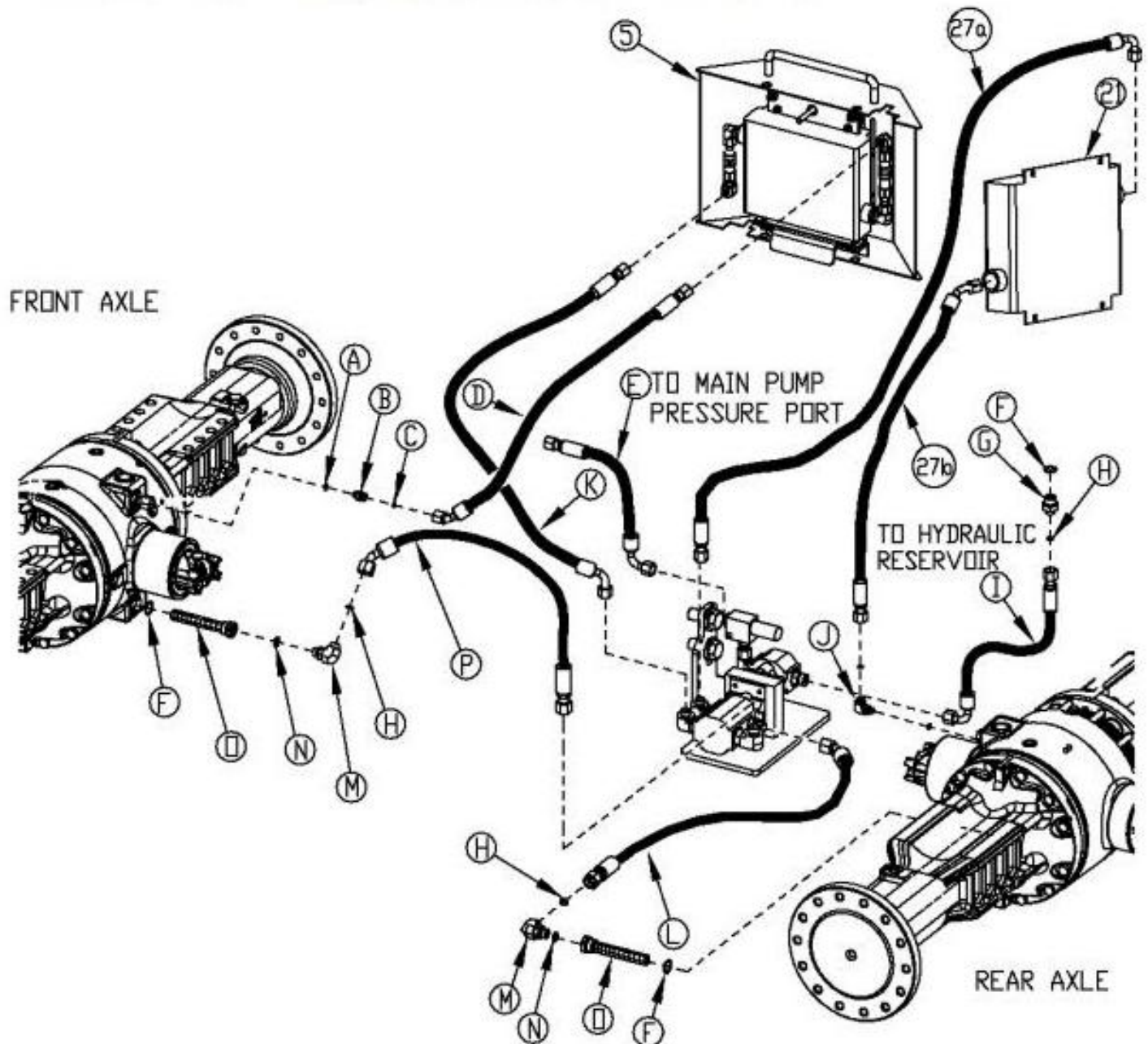
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**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.

## Axle Recirculation System With Optional Oil Coolers



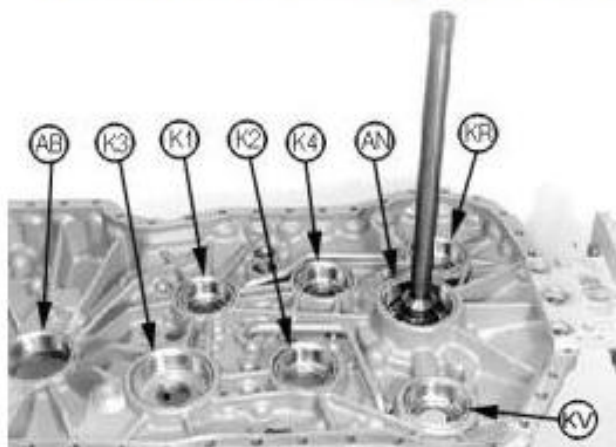
T118027

### Axle Recirculation System with Optional Oil Coolers

#### LEGEND:

- 3 Front Axle Oil Cooler
- 21 Rear Axle Oil Cooler
- 27a Rear Axle Oil Cooler Top Port-to-Rear Axle Recirculation Inlet Port Hydraulic Hose
- 27b Right Front Recirculation Pump Port-to-Rear Axle Oil Cooler Bottom Port Hydraulic Hose
- A O-Ring (2 used)
- B O-Ring Adapter
- C O-Ring (2 used)
- D Front Axle Recirculation Inlet Port-to-Front Axle Oil Cooler Upper Port Hydraulic Hose
- E Recirculation Pump Motor Inlet Port-to-Main Pump Pressure Port Hydraulic Hose
- F O-Ring (3 used)
- G ORFS Straight Thread Fitting
- H O-Ring (3 used)
- I Recirculation Pump Motor Outlet Port-to-Hydraulic Reservoir Hydraulic Hose
- J ORFS Elbow
- K Left Front Recirculation Pump Port-to-Front Axle Oil Cooler Lower Port Hydraulic Hose
- L Right Rear Recirculation Pump Port-to-Rear Axle Recirculation Outlet Port Hydraulic Hose

## Install Clutches, Input and Output Shafts



### LEGEND:

|    |                           |
|----|---------------------------|
| KV | Low Range Forward Clutch  |
| KR | Reverse Clutch            |
| K1 | First Speed Clutch        |
| K2 | Second Speed Clutch       |
| K3 | Third Speed Clutch        |
| K4 | High Range Forward Clutch |
| AN | Input                     |
| AB | Output                    |

### Bearing Outer Race Installation

#### IMPORTANT:

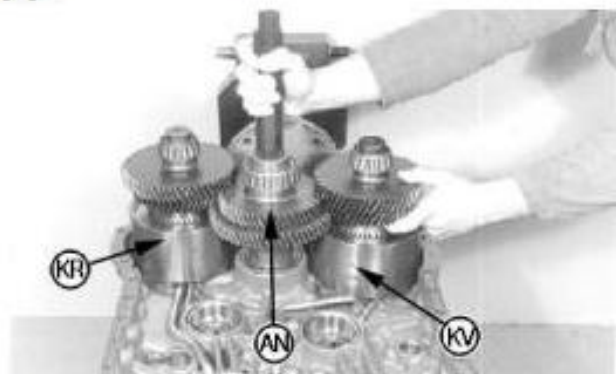
High tolerance bearings are used in all clutch pack applications. Use only John Deere sourced bearings when replacing.

#### →NOTE:

If bearings are reused, they must be assembled in same bores.

[1] - Insert all bearing outer races into the housing cover until contact is obtained.

[2] -



### LEGEND:

|    |                          |
|----|--------------------------|
| KV | Low Range Forward Clutch |
| KR | Reverse Clutch           |
| AN | Input                    |

### KR, KV and Input Shaft Installation

Insert clutch-KR, input shaft and clutch-KV into the housing cover.

[3] -



### LEGEND:

|    |                           |
|----|---------------------------|
| K4 | High Range Forward Clutch |
|----|---------------------------|

### Clutch K4 Installation

Install clutch-K4.

[4] -



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