

# John Deere 470GLC (SN.from D473001) Excavator Operation & Test Technical Service Manual (TM14154X19)

## 470GLC Excavator Operation and Test

(PIN: 1FF470GX\_\_D473001—)



JOHN HARE



COLLECTION

### OPERATION & TEST TECHNICAL MANUAL 470GLC Excavator (PIN: 1FF470GX\_\_D473001—)

TM14154X19 01DEC18 (ENGLISH)

For complete service information also see:

470GLC Excavator Repair ..... TM14155X19



Worldwide Construction and  
Forestry Division

**Covers:** 470GLC,1FF470GX\_\_,\_D473001 (???)

**Type:** Service Manual

**Language:** English

**Pages:** 618

**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 470GLC (SN.from D473001) Excavator Operation & Test Technical Service Manual (TM14154X19)**

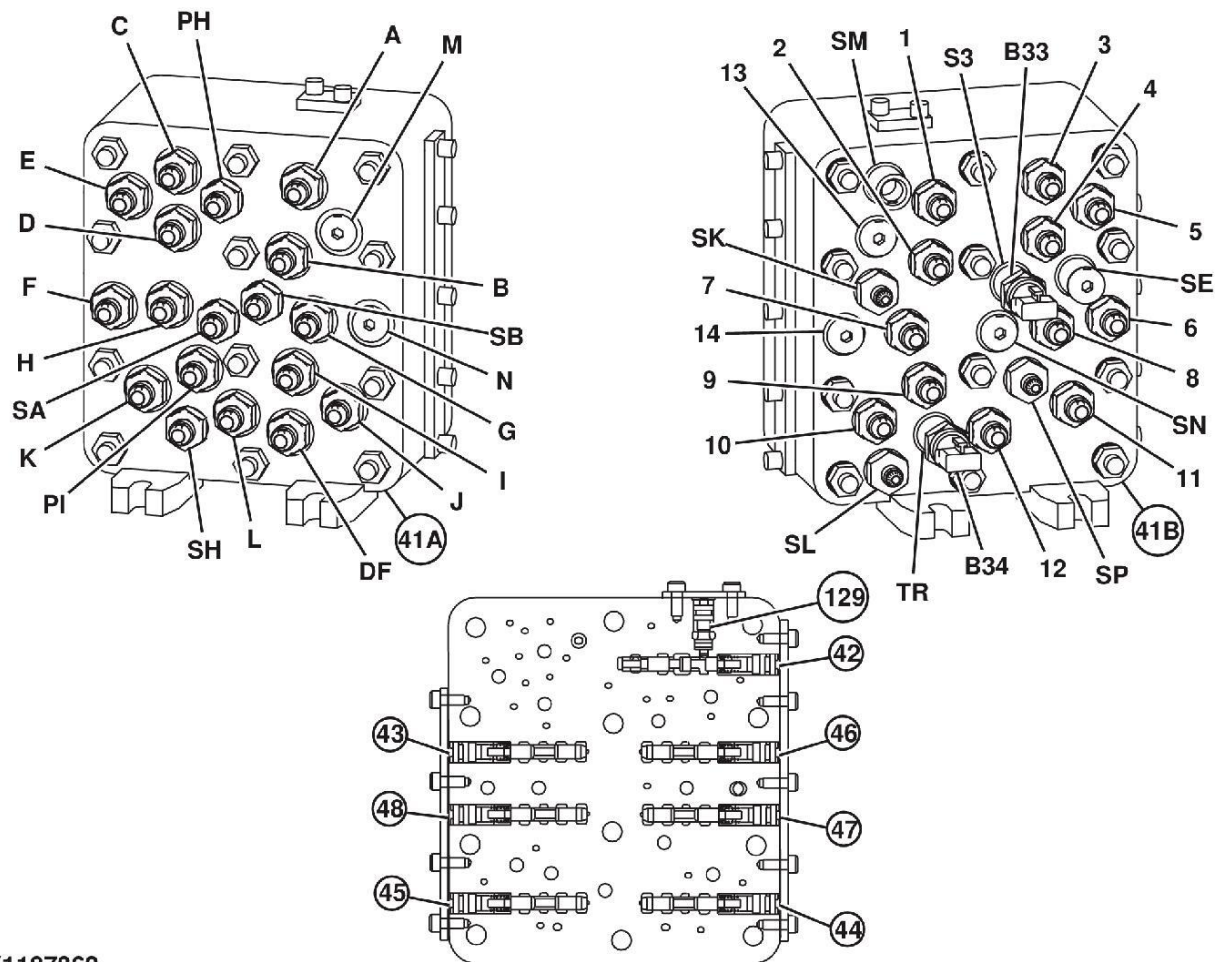
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**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.

## Pilot Signal Manifold Operation



## TX1187362

TX1187362-UN: Pilot Signal Manifold Pilot Valves and Ports

## LEGEND:

1, A-Boom Up	41B-Control Valve Side of Pilot Signal Manifold	PH-To Pilot Shutoff Solenoid Valve Manifold (port HT)
2, B-Boom Down	42-Boom Down Shockless Valve	PI-From Pilot Shutoff Solenoid Valve Manifold (port A4)
3, C-Arm Out	43-Arm 1 Flow Rate Pilot Valve (port SE)	S3-B33 Swing Pressure Sensor
4, D-Arm In	44-Travel Flow Combiner Pilot Valve (port SL)	SA-To Pilot Check Valve Manifold (port SA)
5, E-Swing Left	45-Swing Park Brake Release Pilot Valve (port SH)	SB-To Pilot Check Valve Manifold (port SB)
6, F-Swing Right	46-Bucket Flow Rate Pilot Valve (port SK)	SE-To Arm 1 Flow Rate Control Valve
7, G-Bucket Curl	47-Pump 2 Flow Rate Pilot Valve (port SB)	SH-To Right and Left Swing Park Brake SK-Plug
8, H-Bucket Dump	48-Pump 1 Flow Rate Pilot Valve (port SA)	SL-To Travel Flow Combiner Valve
9, I-Left Travel Forward	129-Orifice	SM-To Hydraulic Oil Tank
10, J-Left Travel Reverse	B33-Swing Pressure Sensor (marked S3)	SN-Plug (not used)
11, K-Right Travel Forward	B34-Travel Pressure Sensor (marked TR)	SP-To Solenoid Valve Manifold (port DP)
12, L-Right Travel Reverse	DF-To Hydraulic Oil Tank	TR-B34 Travel Pressure Sensor
13, M-Plug (auxiliary)		
14, N-Plug (auxiliary)		
41A-Pilot Control Valve Side of Pilot Signal Manifold		

## NOTE:

The numbers 1—14 and letters A—N, DF, TR, S3, SA, SB, SE, SH, SK, SL, SM, SN, SP, PH, and PI are next to the respective ports on the pilot signal manifold.

The pilot signal manifold is in the pilot system between the pilot control valves and the control valve and regulators. The manifold receives a pilot signal from the pilot control valves and sends the signal on multiple paths. One path is used to shift the spools in the control valve and the other routes pilot oil through pump 2 flow rate pilot valve (47) and pump 1 flow rate pilot valve (48). This is done simultaneously so there is little lag between operation of the pilot control valves, pump stroke, and function movement. The manifold also houses additional pilot valves that provide pilot oil for various other functions.

[See Hydraulic System Schematic.](#) (Group 9025-15.)



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