

John Deere TIMBERJACK 810D, 1010D, 1110D, 1410D, 1710D Wheeled Forwarder Technical Service Manual-tm2123

Wheeled Forwarders 810D,
1010D, 1110D, 1410D,
1710D Diagnostic and
Repair



TECHNICAL MANUAL

**Wheeled models 810D (SN: WJ810D001405-); 1010D (SN: WJ1010D003505-);
1110D (SN: WJ1110D001125-); 1410D (SN: WJ1410D000475-); 1710D (SN:
WJ1710D000375-)**

TM2123 22 FEB 05 (ENGLISH)

For complete service information also see:

LCS - Service Display	TM2157
Technical Manual - TMC	TM2155
PowerTech 8.1 L Diesel Engines	CTM86
Alternators and Stators	
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TM2123

Covers: 1010D,WJ1010D003505),1110D,WJ1110D001125),1410D,WJ1410D

Type: Service Manual

Language: English

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This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere TIMBERJACK 810D, 1010D, 1110D, 1410D, 1710D Wheeled Forwarder Technical Service Manual-tm2123**

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.

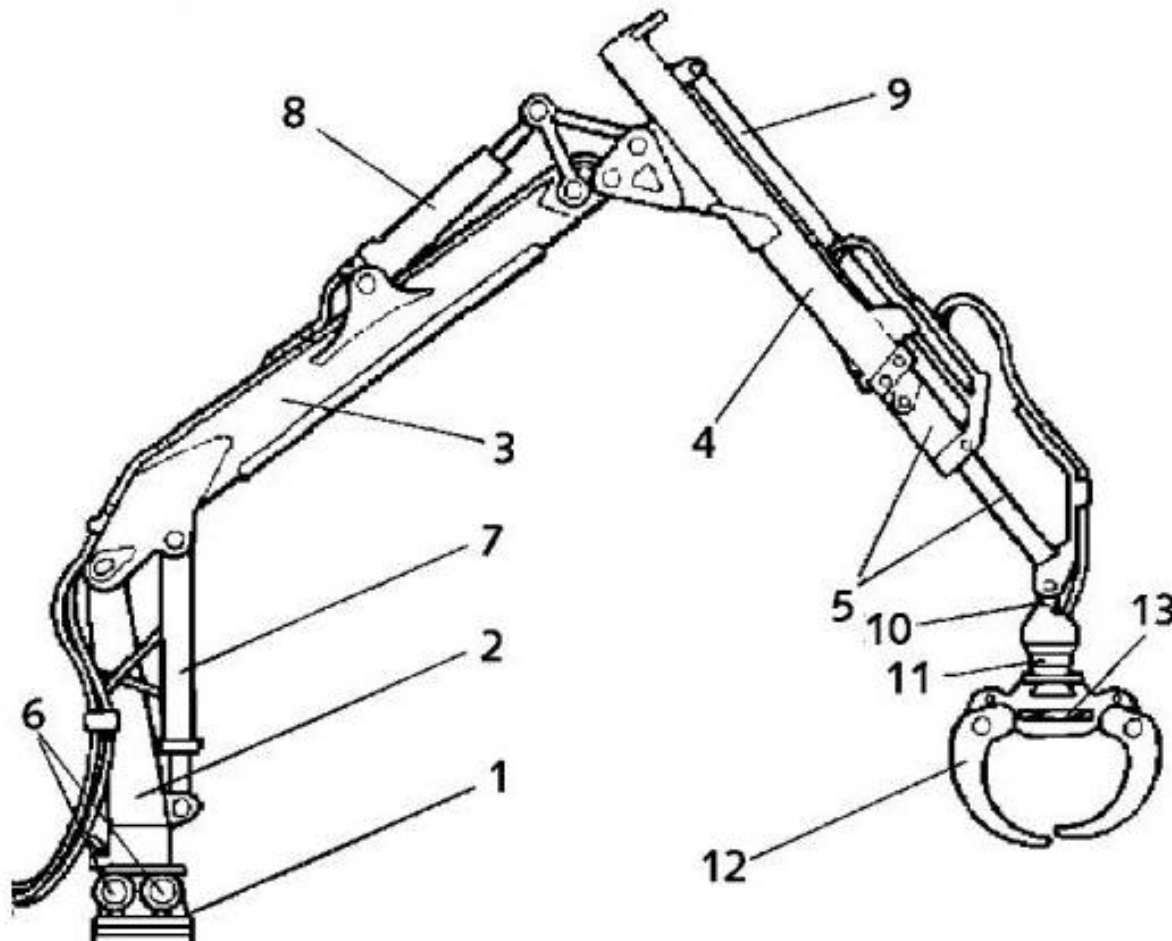
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Group 3710 - Forwarder Booms

Theory of Operation



Forwarders Boom

LEGEND:

1	Base
2	Tower
3	Main boom
4	Outer boom
5	Extension boom
6	Slewing cylinder
7	Main boom cylinder
8	Outer boom cylinder
9	Extension boom cylinder
10	Link
11	Rotator
12	Grapple
13	Grapple cylinder

The forwarder is equipped with a hydraulic boom boom with grapple which is used to load cut timber into the log bunk.

The boom has five cylinders which may require periodic maintenance or repair. The slew rotation cylinders at the base of the tower rotate the entire boom up to 190° from center in either direction (380° total slewing angle). The main boom cylinder, mounted on the tower, raises and lowers the boom and jib sections together. The jib cylinder, mounted on the main boom, raises and lowers the jib section of the boom. The extension cylinder, mounted inside the jib extends and retracts the extension boom. The grapple cylinder, mounted on the grapple, opens and closes the grapple.

The boom is controlled using joysticks on the armrests of the seat. The left joystick controls jib boom Up / Down, slew rotation and extension boom extend retract. The right joystick controls main boom Up / Down, grapple rotation. The Seat Direction Switch on the seat pedestal enables the boom controls only when the seat is facing the rear.

When the boom's main boom is raised, the frame brake is automatically engaged. The frame brake provides stability by locking the front and rear frame together, preventing them from tilting independently. The frame brake can be disengaged by a switch on the dashboard.



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