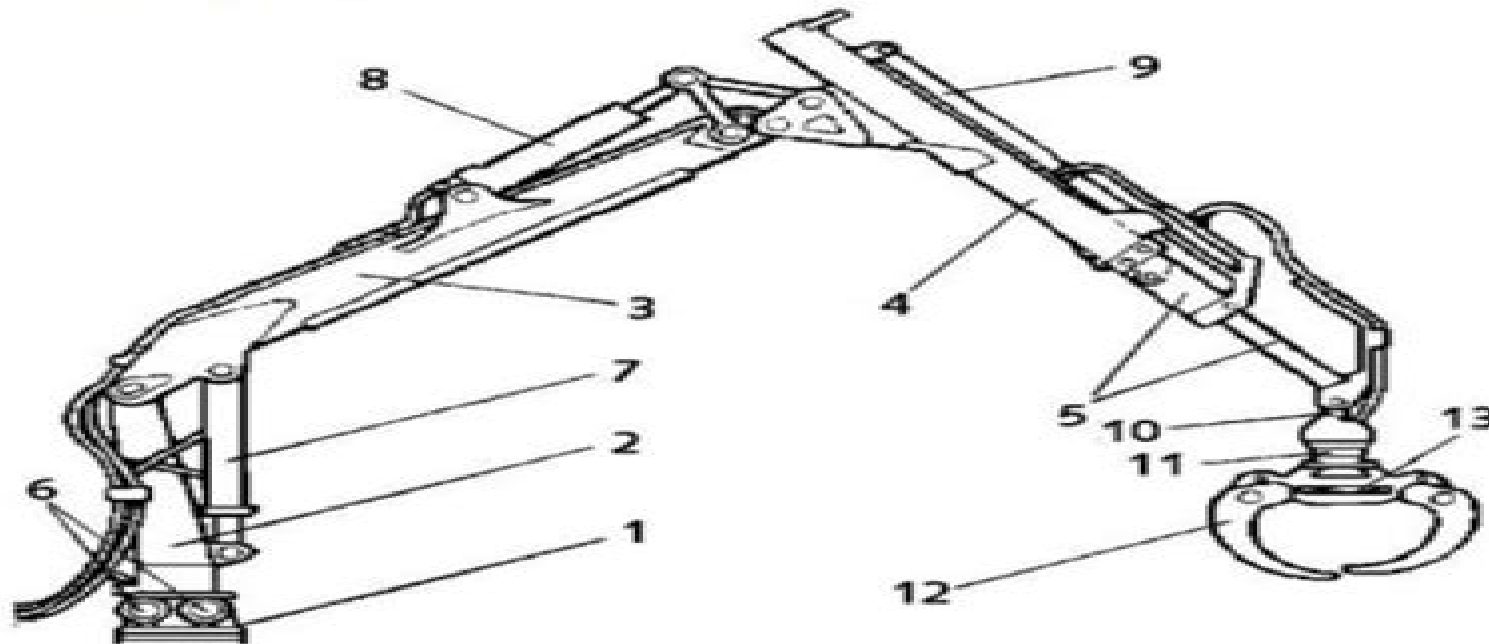


Group 3710 - Forwarder Booms

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 slow 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.

Timberjack Parts Manual 1110d

Wolfgang Guggemos



Timberjack Parts Manual 1110d:

The Northern Logger and Timber Processor ,2007

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