



Operation and Maintenance Manual

416C BACKHOE LOADER

S/N 1WR00001-08115



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◀Product: BACKHOE LOADER

Model: 416C BACKHOE LOADER 1WR

Configuration: 416C Backhoe Loader Center Pivot, Parallel Lift 1WR00001-08115 (MACHINE) POWERED BY 3054 Engine

Operation and Maintenance Manual HYDRAULIC BROOM FOR CATERPILLAR BACK

Media Number -KEBU6901-00

Publication Date -20/ 03/ 1997

Date Updated -10/ 10/ 2001

Application

- * The hydraulic broom is installed by means of a Quick Coupler to the front of a wheel loader, toolcarrier or backhoe loader.
- * The Quick Coupler allows the operator to switch attachments in 30 seconds or less without leaving the cab.
- * Two direct acting hydraulic motors, installed on either side, drive the brush at 175-230 rpm.
- * During sweeping it is possible to hydraulically adjust the angle of the broom by means of a hydraulic cylinder that receives oil from an electrically operated selector valve. The same hydraulic function from the carrier machine is used as the one used to drive the brush motors
- * The mechanically adjustable suspension system provides a constant and evenly applied pressure of the broom against the ground. This results in minimal brush wear and makes the brush insensitive to unevenness, grooves, kerbstones etc.
- * Different types of brushes, conventional or tufted, steel or polypropylene can be installed.

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Broom mounting procedure

NOTE: Before installing or removing an attachment to or from the quick coupler make sure that it's diverter valve is in the "Coupler" position.

1. Install the broom to the loader's Quick Coupler and engage coupler's locks. Follow the Operating and Maintenance instructions that were supplied with the coupler.

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Broom release procedure

1. Raise loader arms until the broom is slightly elevated and level with the ground.
2. Lower and secure the broom parking supports in their lower storage position.
3. Put the diverter valve in the "Coupler" position and disengage the coupler locking pins.

NOTE: The brush can be deformed if the supports are not used when the broom is parked.

4. Lower the loader arms and put the broom on the ground.
5. Disconnect the broom wiring connector from the carrier machine's wiring harness.
6. Disconnect the broom hydraulic lines.
7. Disengage coupler and carrier machine.

NOTE: When disconnecting the broom from the carrier machine, the coupler locking pins must be released before the broom is lowered to the ground!

Neglecting this may cause damage to the brooms suspension system.

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Caution

The broom should be positioned on it's parking supports that should be in their lowered storage position.

2. Connect the broom hoses to the Quick Disconnect Couplers on the coupler. Turn the diverter valve into the "Attachment" position. (If equipped)
3. Connect the broom wiring connector to the wiring harness provided on the machine.
4. Raise loader arms until the broom is slightly elevated.
5. Secure the parking supports in their raised operating position.
6. Start the broom by moving the control handle of the carrier machine's third valve to the locking position.
7. Check the brush rotation. If the brush rotates in the opposite direction, shift the locking position of the control lever of the third valve or, with control valve closed, reverse the broom's hydraulic connections.

NOTE: A lever locking kit may be required in case the loader is not already equipped. Contact the Caterpillar dealer to inquire if the kit is available for your machine.



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