

Attachments

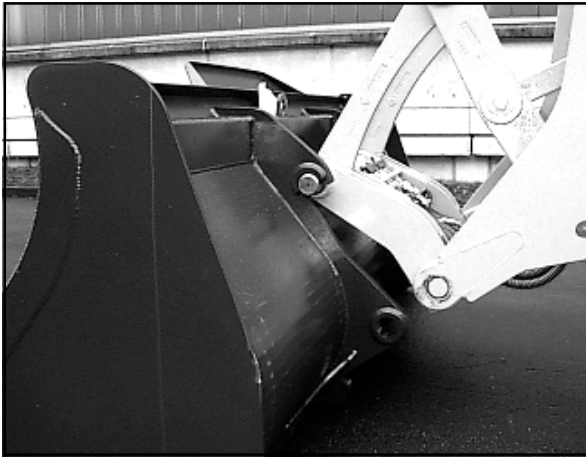


Fig. 6-1

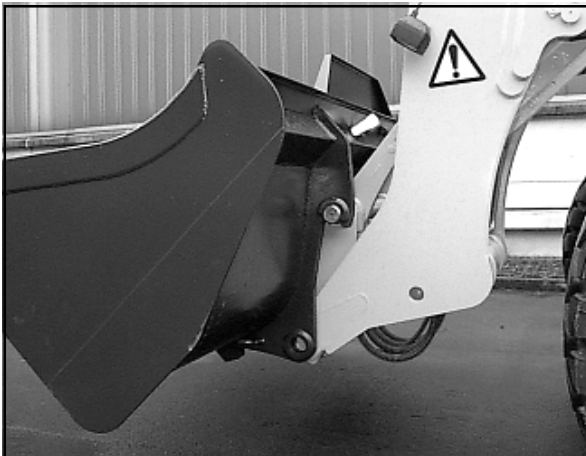


Fig. 6-2

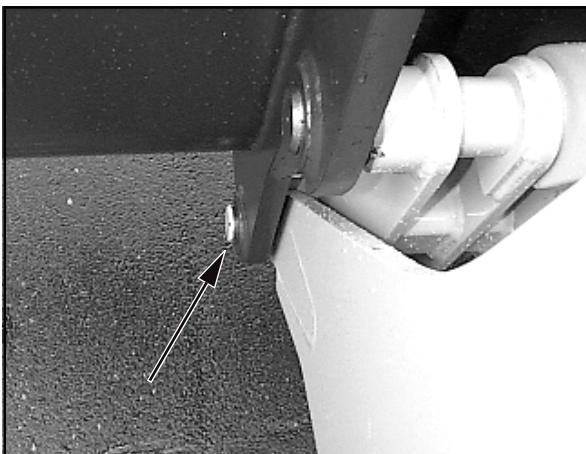


Fig. 6-3

6 Attachments

6.1 Coupling and uncoupling attachments without hydraulics

6.1.1 Standard/Light Material Bucket

Coupling

- (1) Lower the loader arms as far and possible and tilt the quick coupler.
- (2) Drive the loader up to the bucket (6-1).
- (3) Pick up the bucket using the quick coupler frame and, by simultaneously tilting the quick coupler, raise the bucket until the quick coupler is in line with it (6-2).
- (4) Use the auxiliary hydraulic system lever (4-6/5) to lock the bucket (6-3).



ATTENTION

Ensure that the engine is idling while locking the bucket in order to reduce the insertion speed of the lock pins and thus prevent leakages.

- (5) Check seating and ensure that the pins are locked left and right.



DANGER

The lock pins of the quick coupler must be inserted in the lifting holes on both sides of bucket and must protude visibly when viewed from the side (6-3/arrow).

Uncoupling

- (1) Place the bucket firmly on the ground.
- (2) Hold down the quick coupler release button (4-8/14) and at the same time unlock the bucket using the auxiliary hydraulics lever (4-6/5).



ATTENTION

- Ensure that the engine is idling while locking the bucket in order to reduce the retraction speed of the lock pins and thus prevent leakages.
- Ensure that an attachment is fitted before engaging the hydraulic quick coupler.

- (3) Roll the quick coupler off and reverse away from it.



NOTE

The type plate is on the back of the bucket on the right-hand side of the box beam.

6.1.2 Fork-lift attachment



NOTE

- Fig. 6-4 shows the vehicle with the fork-lift attachment at full stretch.
- For coupling and uncoupling procedures please refer to the description of the standard/light material bucket in section 6.1.1.



DANGER

- The lock pins of the quick coupler must be inserted in the lifting holes on both sides of fork-lift attachment and must protrude visibly when viewed from the side (6-5/arrow).
- Spread the load evenly across both fork tines and ensure that the load cannot slide or fall off.
- Align the load with the heel of the fork and tilt the fork-lift attachment slightly up.
- Ensure that the fork tines must be equidistant from the center (6-6/arrows) and lock them in place.
- When moving loads ensure that the fork-lift is raised only slightly above the ground!
- When moving loads, avoid quick acceleration, braking, and steering manoeuvres.



ATTENTION

- In case of equipment with pipe burst protection (opt.), engaging the fork-lift cushioning (4-8/15) will deactivate the pipe burst protection mechanism.
- The driver may not leave the vehicle while the fork-lift is attached.
- Ensure that the engine is idling while locking or unlocking the fork-lift attachment in order to reduce the insertion/retraction speed of the lock pins and thus prevent leakages.
- Ensure that an attachment is fitted before engaging the hydraulic quick coupler.



NOTE

- To ensure that the fork tines are properly locked, both locking levers must be flush with the fork-lift coupler frame.
- The type plate is on the back of the top fork-lift coupler frame.



Fig. 6-4

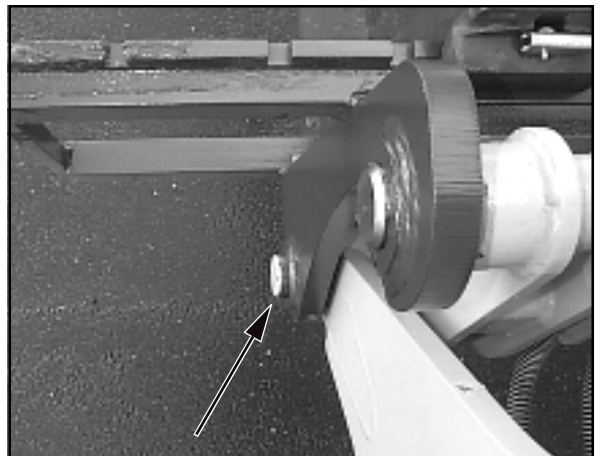


Fig. 6-5

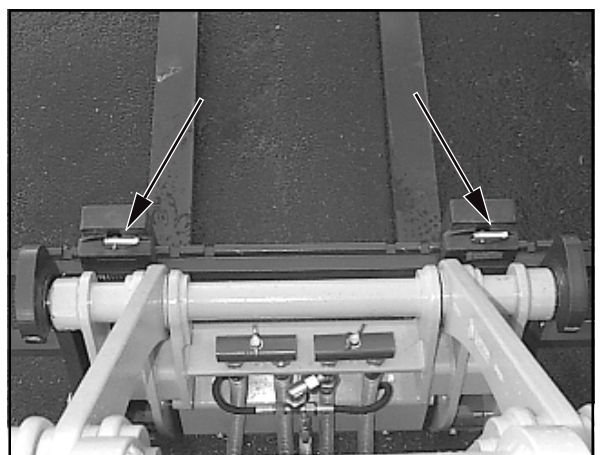


Fig. 6-6



Fig. 6-7



Fig. 6-8

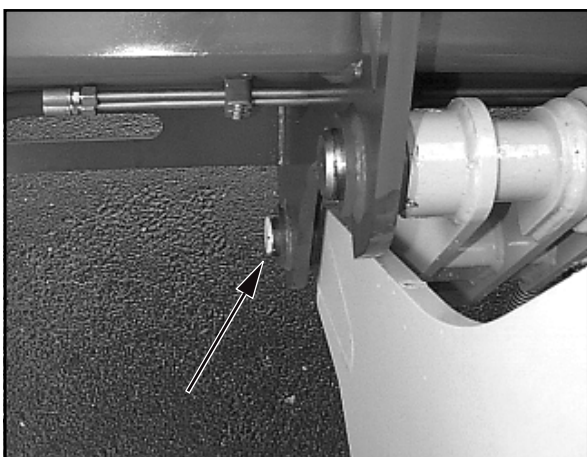


Fig. 6-9

6.1.3 Lifting Hook



NOTE

- For coupling and uncoupling procedures please refer to the description of the standard/light material bucket in section 6.1.1.
- The type plate is on the top right of the lifting hook coupler frame.



DANGER

- The lock pins of the quick coupler must be inserted in the lifting holes on both sides of fork-lift attachment and must protrude visibly when viewed from the side.
- Ensure that the safety lock on the lifting hook is working.



ATTENTION

- In case of equipment with pipe burst protection (opt.), engaging lifting hook cushioning (4-8/15) will deactivate the pipe burst protection mechanism.
- Ensure that the engine is idling while locking or unlocking the lifting hook in order to reduce the insertion/retraction speed of the lock pins and thus prevent leakages.
- Ensure that an attachment is fitted before engaging the hydraulic quick coupler.

6.2 Coupling and uncoupling attachments with hydraulics

6.2.1 Multi-purpose bucket

Coupling

- (1) Lower the loader arms as far and possible and tilt the quick coupler.
- (2) Drive the loader up to the bucket (6-7).
- (3) Pick up the bucket using the quick coupler frame and, by simultaneously tilting the quick coupler, raise the bucket until the quick coupler is in line with i (6-8).
- (4) Use the auxiliary hydraulic system lever (4-6/5) to lock the bucket (6-9).



ATTENTION

Ensure that the engine is idling while locking the bucket in order to reduce the insertion speed of the lock pins and thus prevent leakages.

- (5) Check seating and ensure that the pins are locked left and right.



DANGER

The lock pins of the quick coupler must be inserted in the lifting holes on both sides of bucket and must protrude visibly when viewed from the side (6-9/arrow).

- (6) Stop the engine.
- (7) Release the pressure on the hydraulic hoses by moving the auxiliary hydraulics lever (4-6/5) back and forth.
- (8) Unscrew and remove the protective shield on the right-hand connector of the quick coupler (6-10/arrow).
- (9) Attach the protective shield to the box beam of the quick coupler (6-11/2).
- (10) Flip up the protective lids on the quick fit coupling sleeves of the multi-purpose bucket (6-11/1) and firmly press onto the quick coupler hose (6-11).



ATTENTION

When attaching hydraulic hoses pay attention to cleanliness of the joint and ensure that connectors are seated properly.

Uncoupling

- (1) Place the bucket firmly on the ground.
- (2) Stop the engine.
- (3) Release the pressure on the hydraulic hoses by moving the auxiliary hydraulics lever (4-6/5) back and forth.
- (4) Follow the coupling procedure in reverse order, the exception being that you need to press the quick coupler release button (4-8/14) to release the multi-purpose bucket.



ATTENTION

- Ensure that the engine is idling while unlocking the multi-purpose bucket in order to reduce the insertion/retraction speed of the lock pins and thus prevent leakages.
- To release a connector from the corresponding coupler line up the grooves in the grip ring (6-12/arrows) with the cams on the coupling sleeve (you will feel it snap into place), and then pull firmly upward.
- Ensure that an attachment is fitted before engaging the hydraulic quick coupler.



NOTE

The type plate is on the back right of the bucket underneath the box beam.

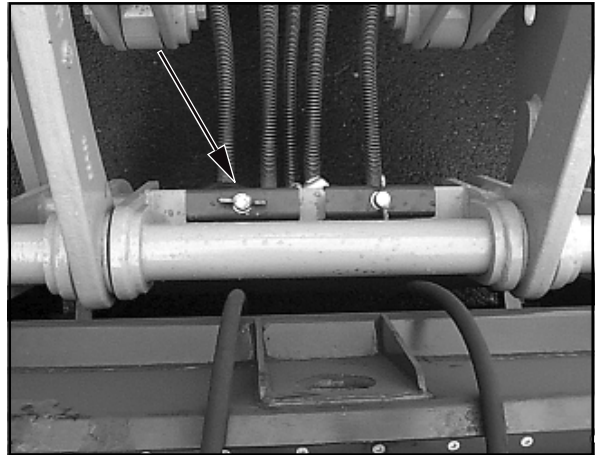


Fig. 6-10

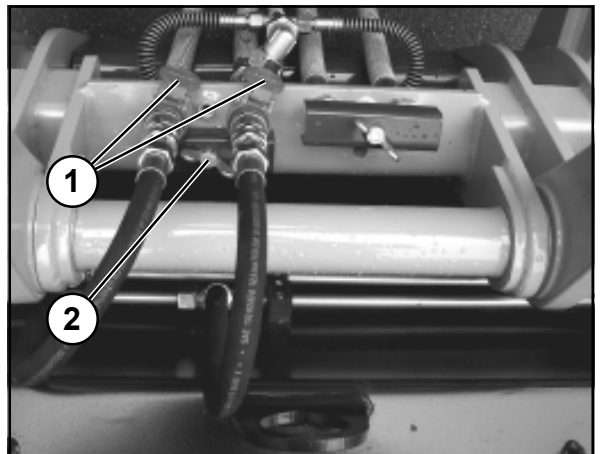


Fig. 6-11

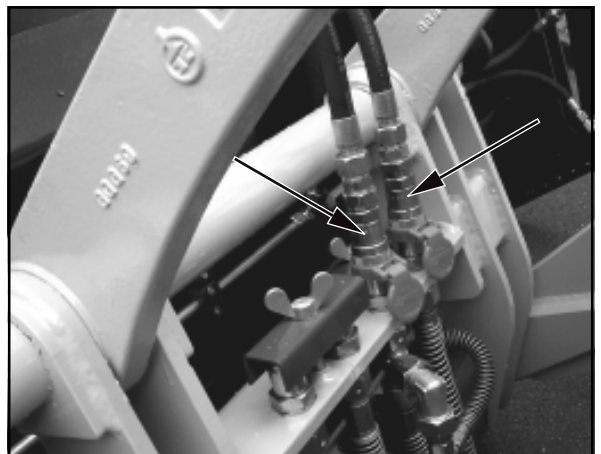


Fig. 6-12



Fig. 6-13

Notes on using the multi-purpose bucket

The multi-purpose bucket can be used for:

- blading (6-13)



Fig. 6-14

- clamming (6-14)



Fig. 6-15

- grapping (6-15) and for
- digging like a normal bucket.

6.2.2 Front-end excavator

Coupling

For coupling and uncoupling procedures please refer to the description of the multi-purpose bucket in section 6.2.1 (1) ... (10), except that **all four** hydraulic hose sleeves on the front-end excavator need to be attached to the connectors on the quick coupler assembly.

Ensure that the hoses on the right of the front-end excavator are attached to the connectors on the right of the quick coupler assembly and that both hoses on the left of the front-end excavator are attached to the connectors on the left of the quick coupler assembly. Make sure that the hoses do not cross.



NOTE

If you cross attach the hydraulic hoses, the motion of the front-end excavator boom and bucket will not correspond to the description on plate (2-1/5).



DANGER

The lock pins of the quick coupler must be inserted in the lifting holes on both sides of the front-end excavator attachment and must protrude visibly when viewed from the side.



ATTENTION

- Ensure that the engine is idling while locking the front-end excavator in order to reduce the insertion speed of the lock pins and thus prevent leakages.
- When attaching hydraulic hoses pay attention to cleanliness of the joint and ensure that connectors are seated properly.



Fig. 6-16

Uncoupling

For uncoupling procedures see the description of the multi-purpose bucket (section 6.2.1), however, ensure that all four hydraulic hoses of the front-end excavator are disconnected from the four connectors on the quick coupler.



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- Ensure that the engine is idling while unlocking the front-end excavator in order to reduce the retraction speed of the lock pins and thus prevent leakages.
- Ensure that an attachment is fitted before engaging the hydraulic quick coupler.



NOTE

The type plate is on the right of the arm near the coupler frame.

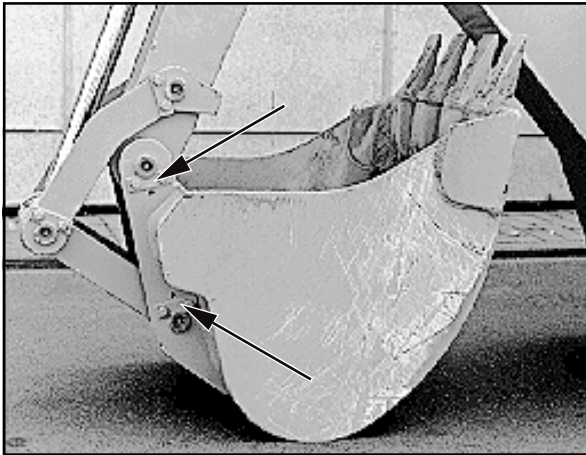


Fig. 6-17

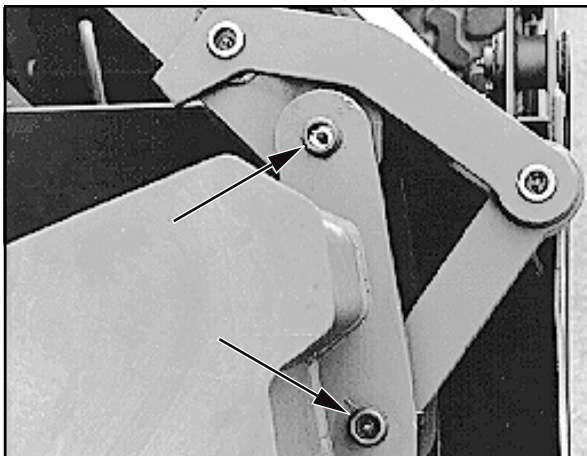


Fig. 6-18

6.2.2.1 Changing a bucket

- (1) Lift and mechanically prop up bucket arm [e.g. by inserting the bucket arm support (option) (1-1/arrow)] and lower bucket arm until it rests on the bucket arm support.
- (2) Move the front-end loader into a position where the bucket heel is flush with the ground.
- (3) Switch off the engine.
- (4) Release the pressure on the hydraulic hoses by moving the auxiliary hydraulics lever (4-6/5) back and forth.
- (5) Close both stop valves (1-2/1 and 1-2/2).
- (6) Unscrew the safeguards for the bolts (size 19) (6-17/arrows).
- (7) Knock out the bearing pin (6-18/arrows) and remove the bucket.
- (8) Follow these steps in reverse order to attach a bucket.



NOTE

The type plate for the bucket is on the outside left.

6.3 Using other attachments



DANGER

1. Use only those attachments described in this manual.
2. Be aware that we cannot approve attachments we have not supplied ourselves. Using non-approved products may adversely affect the constructional and active or passive safety features of your equipment. We accept no responsibility for damage caused by using non-approved products.