

Attachments

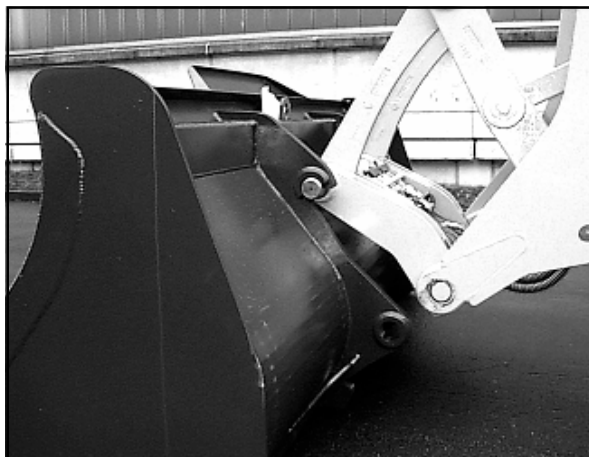


Figure 6-1

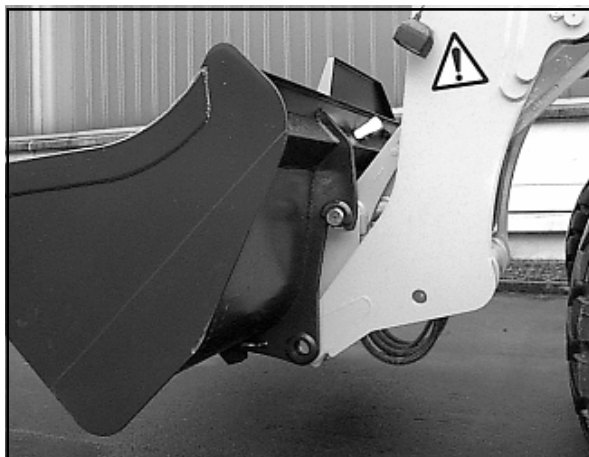


Figure 6-2

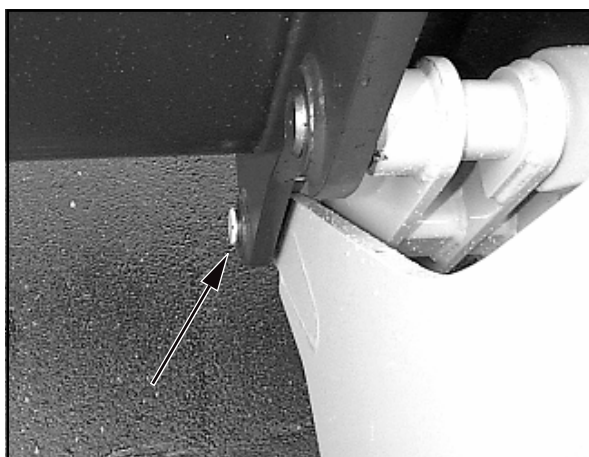


Figure 6-3

6 Attachments

6.1 Mounting and dismounting attachments without hydraulic connections

6.1.1 Standard/lightweight bucket

Mounting

- (1) Bring the bucket arm to its lowest position and tip the quick-change device.
- (2) Drive the loader up to the bucket (6-1).
- (3) Pick up the bucket using the quick-change device and, by simultaneously tilting the quick-change device, raise the bucket until the quick-change device is next to it (6-2).
- (4) Lock the bucket (6-3) with the hand lever for the auxiliary hydraulics (4-6/5).



CAUTION

The attachment may be locked only when the engine is at idling speed so that the extension speed of the locking bolts does not become too high and leaks are prevented.

- (5) Check that the device is mounted and locked correctly on both sides.



DANGER

The two bolts of the quick-change device must be in the bore holes of the bucket suspension and must be clearly visible (6-3/arrow).

Dismounting

- (1) Place the bucket firmly on the ground.
- (2) Press the release button for the quick-change device (4-8/8) and unlock the bucket with the hand lever for the auxiliary hydraulics (4-6/5).



CAUTION

- The attachment may be locked only when the engine is at idling speed so that the retraction speed of the locking bolts does not become too high and leaks are prevented.
- The hydraulic quick-change device must only be locked when an attachment has been mounted.

- (3) Tilt the quick-change device and reverse out.



NOTE

The type plate is on the rear of the bucket, on the right-hand side of the cross arm.

6.1.2 Fork-lift attachment



NOTE

- Figure 6-4 shows the loader with the fork-lift attachment in the topmost bucket arm position.
- Mounting and dismounting are carried out in the same way as for the standard/lightweight bucket (section 6.1.1).



DANGER

- The two bolts of the quick-change device must be in the holes on both sides of the fork-lift attachment suspension and must be clearly visible (6-5/arrow).
- Distribute the load equally on both fork tines and secure it against moving and falling off.
- Let the load rest against the rear of the fork and tilt the fork-lift attachment.
- Position both fork tines at an equal distance from the centre (6-6/arrows) and lock them.
- Moving loads on the forks is only permitted close to the ground!
- Avoid abrupt acceleration, braking or steering movements when handling loads.



CAUTION

- You must not actuate the lifting device suspension (4-8/9) of loaders with pipe break protection (option) since this would disable the pipe break protection.
- The driver must not leave the loader if the attachment has not been lowered.
- The fork-lift attachment may be locked/unlocked only when the engine is at idling speed so that the insertion/retraction speed of the locking bolts does not become too high and leaks are prevented.
- The hydraulic quick-change device must only be locked when an attachment has been mounted.



NOTE

- The fork tines are locked correctly when the two tiltable locking levers fully rest on the fork carrier.
- The type plate is on the rear of the upper fork carrier.



Figure 6-4

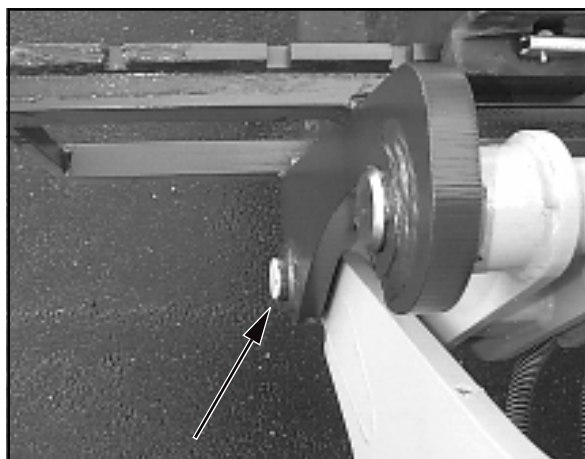


Figure 6-5

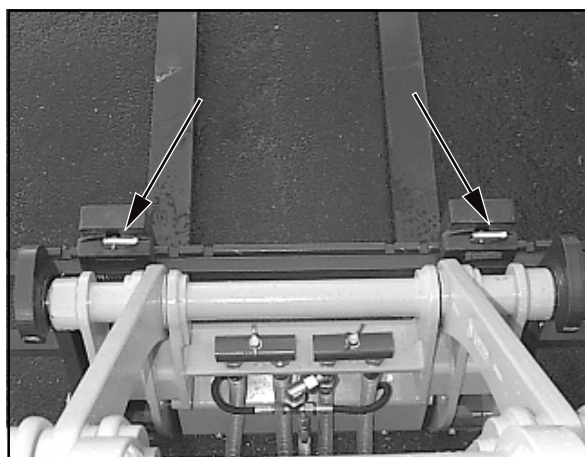


Figure 6-6



Figure 6-7



Figure 6-8

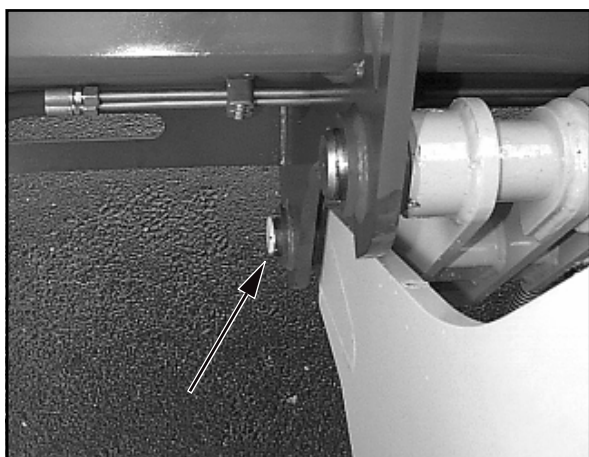


Figure 6-9

6.1.3 Lifting hook



NOTE

- Mounting and dismounting are carried out in the same way as for the standard/lightweight bucket (section 6.1.1).
- The type plate is on the upper side of the crane hook support, on the right-hand side.



DANGER

- The two bolts of the quick-change device must be in the holes on both sides of the lifting hook attachment suspension and must be clearly visible.
- Check the safety flap of the crane hook for proper functioning.



CAUTION

- You must not actuate the lifting device suspension (4-8/9) of loaders with pipe break protection (option) since this would disable the pipe break protection.
- The lifting hook attachment may be locked/unlocked only when the engine is at idling speed so that the insertion/retraction speed of the locking bolts does not become too high and leaks are prevented.
- The hydraulic quick-change device must only be locked when an attachment has been mounted.

6.2 Mounting and dismounting attachments with hydraulic connections

6.2.1 Multi-purpose bucket

Mounting

- (1) Bring the bucket arm to its lowest position and tip the quick-change device.
- (2) Drive the loader up to the bucket (6-7).
- (3) Pick up the bucket using the quick-change device and, by simultaneously tilting the quick-change device, raise the bucket until the quick-change device is next to it (6-8).
- (4) Lock the bucket (6-9) with the hand lever for the auxiliary hydraulics (4-6/5).



CAUTION

The attachment may be locked only when the engine is at idling speed so that the extension speed of the locking bolts does not become too high and leaks are prevented.

(5) Check that the device is mounted and locked correctly on both sides.



DANGER

The two bolts of the quick-change device must be in the bore holes of the bucket carrier and must clearly protrude (6-9/arrow).

(6) Shut down the engine.

(7) Depressurise the hydraulic lines by moving the hand lever for the auxiliary hydraulics (4-6/5) to and fro.

(8) Unscrew the right cover from the coupling of the quick-change device (6-10/arrow).

(9) Fasten the cover to the cross arm of the quick-change device (6-11/2).

(10) Swing up the protective flaps of the quick-change couplings on the multi-purpose bucket (6-11/1) and connect them with the hoses of the quick-change device (6-11) by tightly pushing them in.



CAUTION

When making connections, make sure that the hydraulic connections are clean and completely connected.

Dismounting

(1) Place the multi-purpose bucket firmly on the ground.

(2) Shut down the engine.

(3) Depressurise the hydraulic lines by moving the hand lever for the auxiliary hydraulics (4-6/5) to and fro.

(4) Dismounting takes place in the reverse order of mounting. However, to unlock the multi-purpose bucket, the release button for the quick-change device (4-8/8) must be used.



CAUTION

- The attachment may be locked only when the engine is at idling speed so that the retraction speed of the locking bolts does not become too high and leaks are prevented.
- To separate the coupling sockets from the coupling plugs, make the notches on the knurled collars (6-12/arrows) match the noses on the coupling sockets (can be distinctly felt to engage) and then firmly pull upwards.
- The hydraulic quick-change device must only be locked when an attachment has been mounted.



NOTE

The type plate is on the rear of the bucket, on the right-hand side beneath the cross arm.

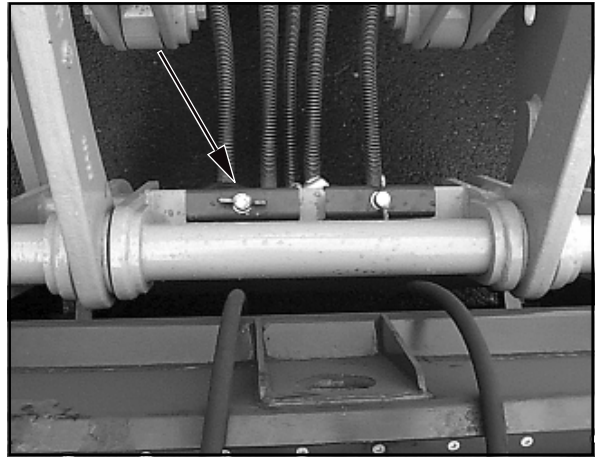


Figure 6-10

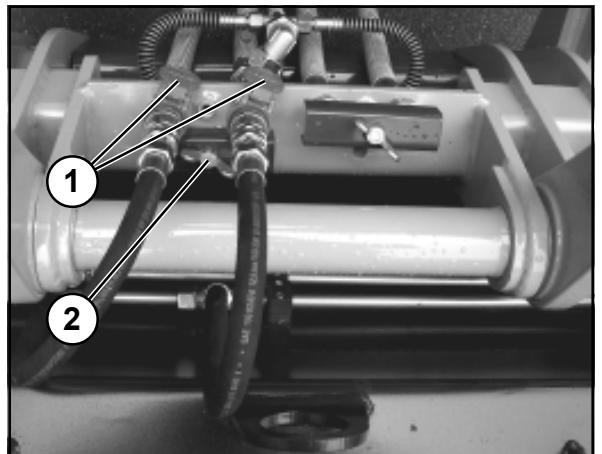


Figure 6-11

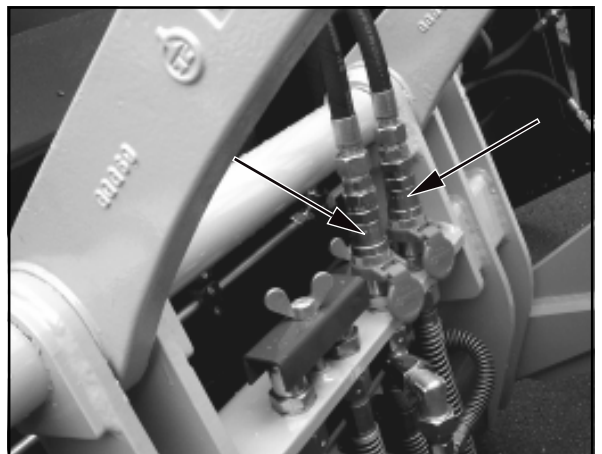


Figure 6-12



Figure 6-13

Notes on the application of the multipurpose bucket

The multi-purpose bucket can be used for:

- peeling (6-13)



Figure 6-14

- scraping (6-14)



Figure 6-15

- grabbing (6-15) and

- in bucket operation.

6.2.2 Front-end excavator

Mounting

The front-end excavator is mounted in a manner similar to the multi-purpose bucket [(section 6.2.1 (1) ... (10)], except that **all four** hydraulic hoses of the front-end excavator must be connected to the four quick-change couplings of the quick-change device.

While doing so, make sure the two right hoses on the front-end excavator arm connect to the right coupling plugs on the quick-change device and the two left hoses on the front-end excavator arm connect to the left coupling plugs on the quick-change device. The hoses must never cross.



NOTE

Improper connection of the hydraulic hoses may mean that movements of the front-end excavator arm and/or the shovel do not correspond to the symbols in the sign (2-1/5).



DANGER

The two bolts of the quick-change device must be in the bore holes of the front-end excavator suspension and must be clearly visible (6-16/ arrow).



CAUTION

- The front-end excavator may be locked only when the engine is at idling speed so that the extension speed of the locking bolts does not become too high and leaks are prevented.
- When making connections, make sure that the hydraulic connections are clean and completely connected.

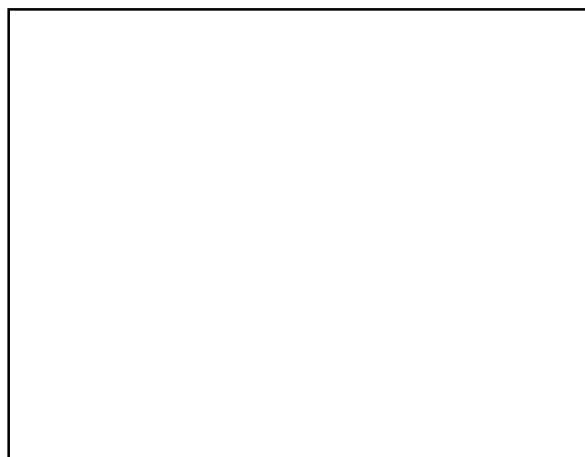


Figure 6-16

Dismounting

The front-end excavator is dismounted in a manner similar to the multi-purpose bucket (section 6.2.1), except that the four hydraulic hoses of the front-end excavator must be disconnected from the four quick-change coupling plugs of the quick-change device.



CAUTION

- The front-end excavator may be unlocked only when the engine is at idling speed so that the retraction speed of the locking bolts does not become too high and leaks are prevented.
- The hydraulic quick-change device must only be locked if an attachment has been mounted.



NOTE

The type plate is on the right-hand side of the shovel, near the support.

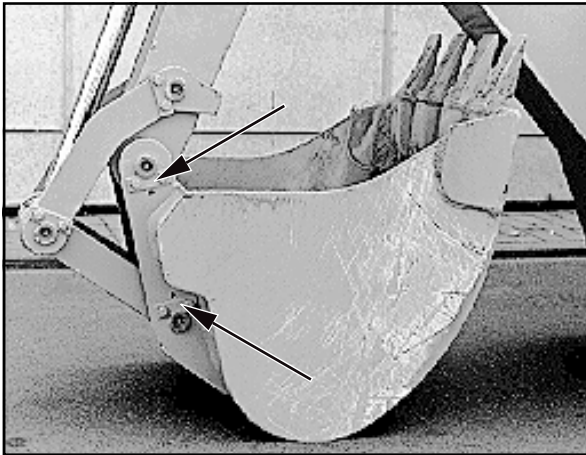


Figure 6-17

6.2.2.1 Shovel replacement

- (1) Lift and mechanically prop up the bucket arm [e.g. by inserting the bucket arm support (option) (1-1/arrow)] and lower the bucket arm until it rests on the bucket arm support.
- (2) Position the front-end excavator so that the rear of the shovel lies on the ground.
- (3) Shut down the engine.
- (4) Depressurise the hydraulic lines by moving the hand lever for the auxiliary hydraulics (4-6/5) to and fro.
- (5) Close both ball block valves (1-2/1 and 1-2/2).
- (6) Unscrew the bolt retainer (size 19) (6-17/arrows).
- (7) Knock out the bearing bolts (6-18/arrows) and remove the shovel.
- (8) Mounting is in the reverse order.



NOTE

The type plate of the shovel is on the left outer side.

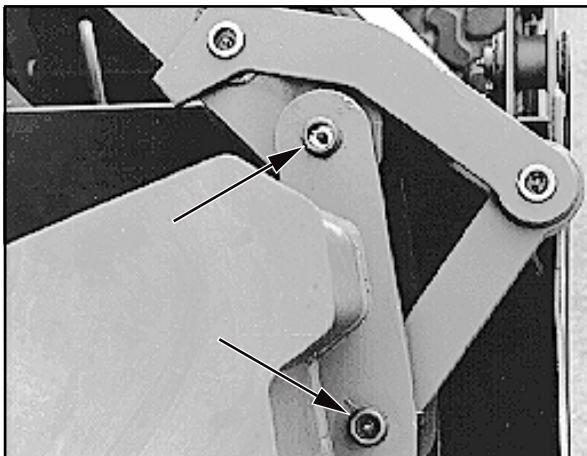


Figure 6-18

6.3 Use of additional attachments



DANGER

1. Only those attachments described in these operating instructions may be used.
2. We emphasise that attachments that are not supplied by us are also not tested and approved by us. Use of such products can under certain conditions adversely affect the present constructional qualities of your loader and thus limit the active and passive driving safety. The manufacturer cannot be held responsible for damage that occurs through the use of such products.