

7.6 Lubrication work

Preparing lubrication

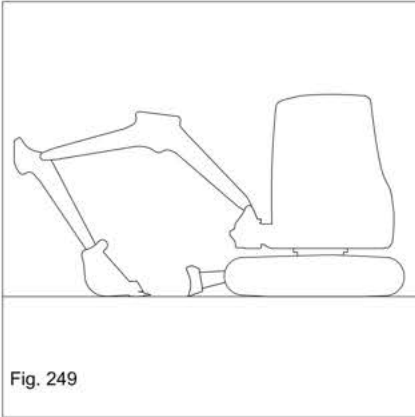


Fig. 249

1. Stop the vehicle on firm, level, and horizontal ground.
2. Position the boom straight ahead at the center of the vehicle.
3. Lower the boom and the stabilizer blade to the ground.
4. Stop the engine.
5. Operate the control lever repeatedly to release the pressure in the hydraulic system.
6. Raise the control lever base.
7. Remove the starting key and carry it with you.
8. Safely store all loose objects inside the machine.
9. Close the windows and doors.
10. Close and lock all covers.
11. Attach a warning label to the control elements (for example "Machine being serviced, do not start").
12. Wait at least 10 minutes after stopping the engine!

Live ring (ball bearing)

DANGER

Danger of crushing during lubrication!

Serious crushing hazard causing death or serious injury!

- ▶ Park the machine as shown in [Fig. 249](#).
- ▶ Do not rotate the upper carriage.
- ▶ Do not tilt the upper carriage.



Fig. 250

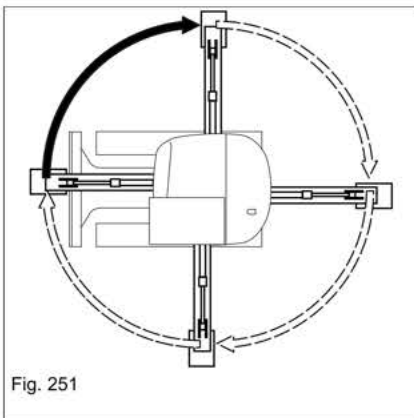


Fig. 251

1. Park the vehicle on firm, level, and horizontal ground.
2. Lower the boom and the stabilizer blade to the ground.
3. Stop the engine, remove the starting key and carry it with you.
4. Apply grease to lubrication point **10** with two strokes of the grease gun.

5. Start the engine, raise the boom and the stabilizer blade.
6. Rotate the upper carriage by 90°.
7. Repeat steps 2 – 6 three times until the upper carriage is back in its initial position.
8. Rotate the upper carriage several times by 360°.



Information

Keep the lubrication points clean and remove ejected grease.

Live ring gears

DANGER

Danger of crushing during lubrication!

Serious crushing hazard causing death or serious injury!

- ▶ Park the machine as shown in [Fig. 249](#).
- ▶ Do not rotate the upper carriage.
- ▶ Do not tilt the upper carriage.

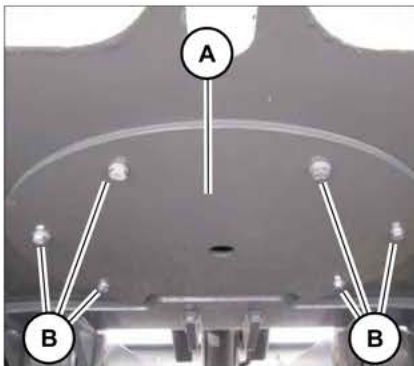


Fig. 252

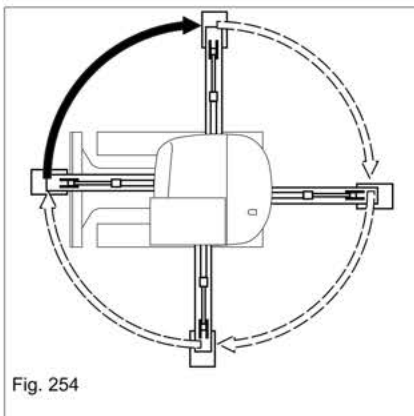
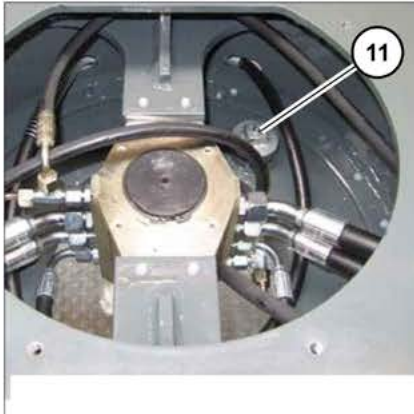


Fig. 254

The lubrication point is located on the lower side of the travel gear.

1. Drive the machine over a pit.
2. Lower the stabilizer blade to the ground.
3. Lower and support the boom to prevent it from lowering into the pit.
4. Stop the engine, remove the starting key and carry it with you.

Remove cover **A** by means of six screws **B** on the lower side.

5. Apply grease to lubrication point **11** with five strokes of the grease gun.
6. Start the engine, raise the boom and the stabilizer blade.

7. Rotate the upper carriage by 90°.
8. Repeat steps 2 – 7 three times until the upper carriage is back in its initial position.
9. Remove cover **A**.

Vertical Digging System live ring gear (option)

DANGER

Danger of crushing during lubrication!

Serious crushing hazard causing death or serious injury!

- ▶ Park the machine as shown in [Fig. 249](#).
- ▶ Do not rotate the upper carriage.
- ▶ Do not tilt the upper carriage.

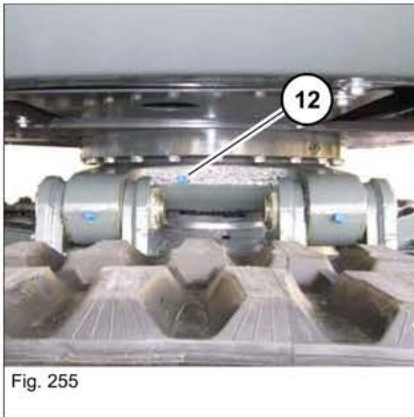


Fig. 255

The lubrication point is located at the right on the console.

1. Park the vehicle on firm, level, and horizontal ground.
2. Lower the stabilizer blade to the ground.
3. Lower the boom and the stabilizer blade to the ground.
4. Stop the engine, remove the starting key and carry it with you.
5. Apply grease to lubrication point **12** with five strokes of the grease gun.
6. Start the engine, raise the boom and the stabilizer blade.

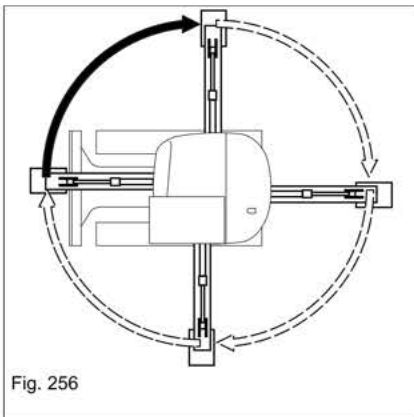


Fig. 256

7. Rotate the upper carriage by 90°.
8. Repeat steps 2 – 7 three times until the upper carriage is back in its initial position.
9. Remove cover **A**.

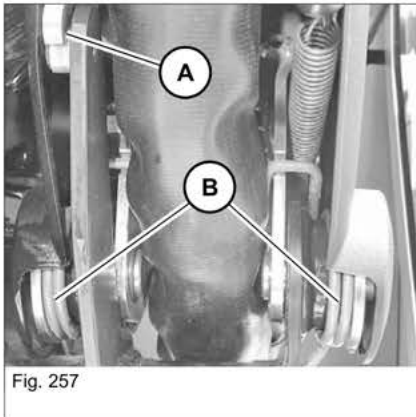
Control lever base

! **CAUTION**

Crushing hazard in the area of the moving parts of the control lever base.

There is a risk of serious injury in the area of the moving parts.

- ▶ Stay clear (extremities, clothing) of the moving parts.



1. Stop and park the vehicle. Stop the engine. See "Preparing lubrication".
2. Raise the control lever base.
3. Spray fluid grease onto guide lever **A**.
4. Spray fluid grease on both sides of the double spring **B**.
5. Raise and lower the control lever base several times.

i **Information**

Keep the lubrication points clean and remove ejected grease.

PowerTilt/PowerTilt with Easy Lock (option) when used in water

- Apply grease to the lubrication points before using in water.
- After using in water, apply grease to the lubrication points to remove all water.