

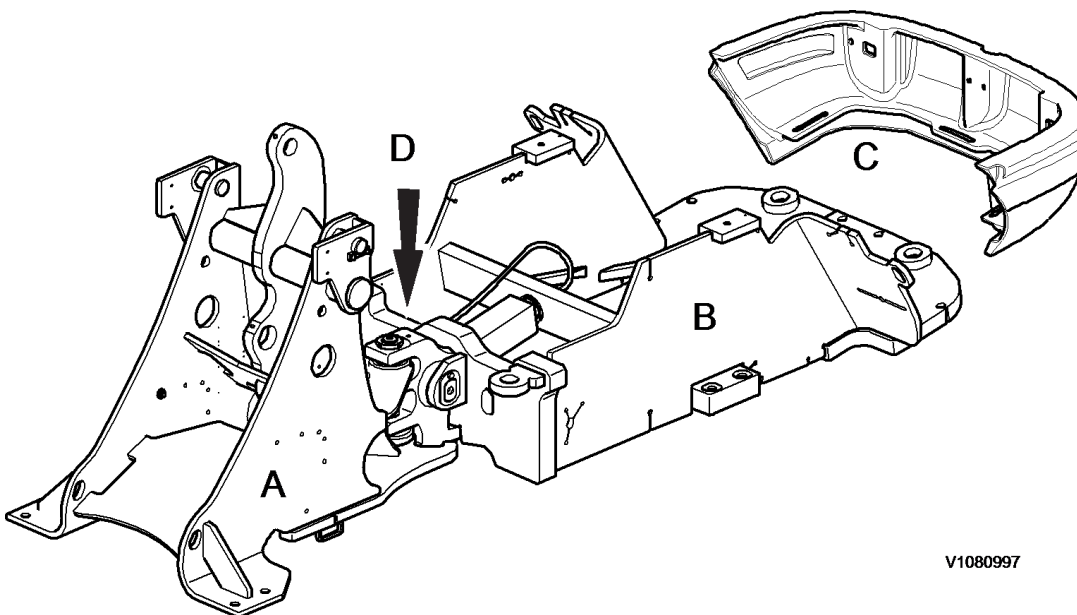
Document Title: <b>Frame and track unit, description</b>	Function Group: <b>700</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L25F [GB]</b>			

## Frame and track unit, description

The front frame is built as an open box profile on which is attached the lifting bracket that serves as a carrier for the fast change device with the working tools required. The front frame also fixes the front axle.

The rear frame consists of two frame carriers. The front frame carrier supports the resiliently mounted cab and fixes the rear axle. The engine and counterweight are attached to the rear frame carrier.

The front frame is connected to the rear via the articulated joint. All fixing surfaces between the frames and components are machined to guarantee perfect fit and connection.



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**Figure 1**  
**Frame parts**

- A. Front frame
- B. Rear frame
- C. Counterweight
- D. Frame joint bearing

Document Title: <b>Frame joint, separating machine</b>	Function Group: <b>741</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L25F [GB]</b>			

## Frame joint, separating machine

Op nbr 741-001

[9993791 Puller bolt](#)

[11666013 Pump](#)

[11666054 Jack](#)

[11666172 Lifting eye](#)

[11666137 Socket](#)

[080 E-tool Sleeve](#)

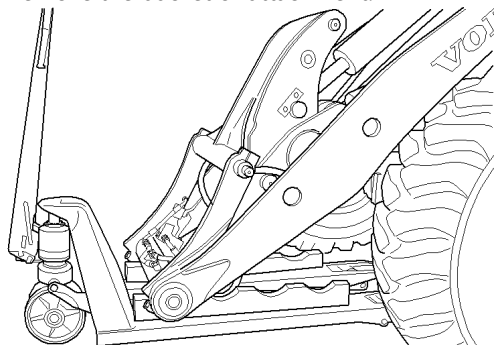
[080 E-tool Cab support](#)



### **WARNING**

The work involves handling heavy components - failure to stay alert may result in severe crushing injuries.

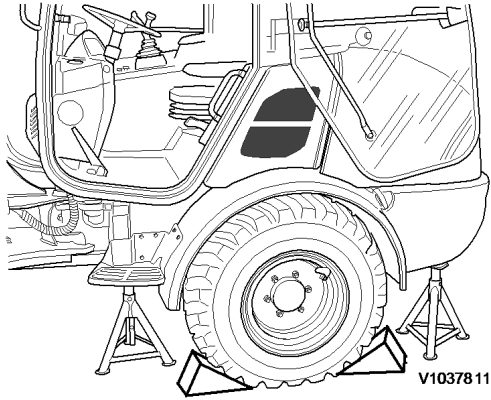
1. Remove the bucket or attachment.



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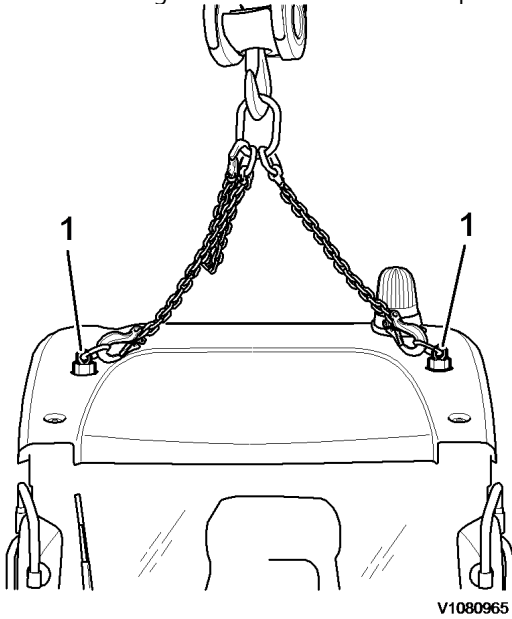
**Figure 1**

2. Place the machine in service position and place the lifting bracket on a flexible surface. Depressurize the hydraulic system.
3. Turn OFF the battery disconnect switch.
4. Block the wheels with wedges and position suitable supports under the rear frame.



**Figure 2**

5. Remove the right-hand and left-hand side panel of the cab.



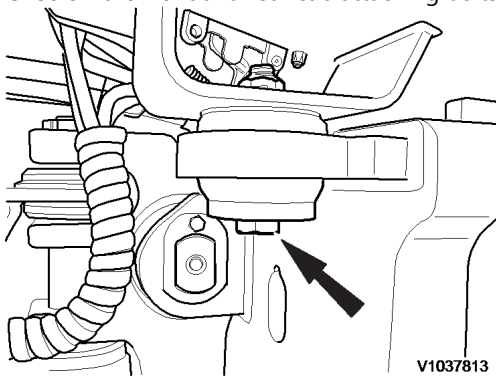
**Figure 3**

6. Unscrew the cab roof lock screws and screw in the lifting eyes (1). Hoist the cab with a crane hoist.

**NOTE!**

Use secure lifting equipment with sufficient capacity.

7. Unscrew the front and rear cab attaching bolts.



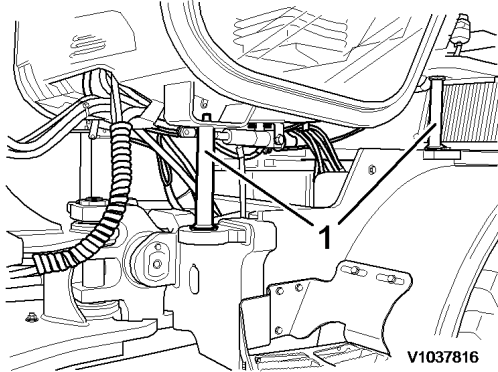
**Figure 4**

8. Slowly raise the cab and remove the rubber bushing.

**NOTE!**

When raising the cab, make sure that no hoses or cables are ripped off.

9. Rest the cab on the cab supports (1). [080 E-tool Cab support](#).



**Figure 5**

10. Remove cable tie and detach all hydraulic lines at the front frame.

**NOTE!**

Place suitable catchment container below to catch escaping oil.



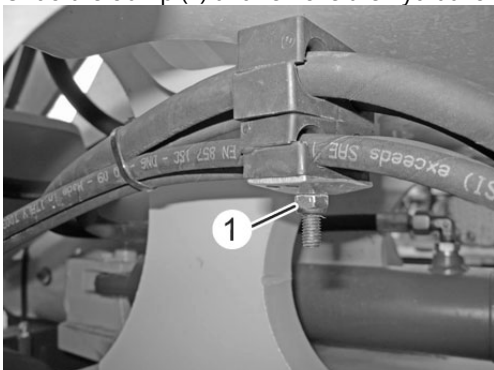
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**Figure 6**

**NOTICE**

**When a hose has been disconnected, plug both the hose and the connection immediately. The hoses should be marked for correct connection.**

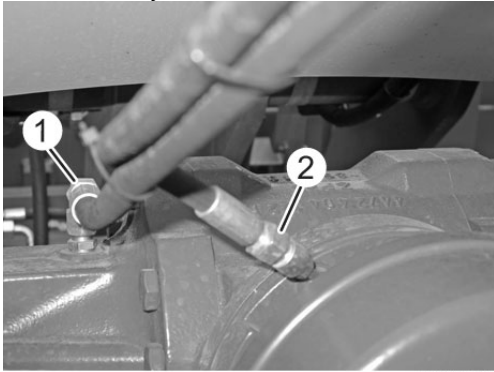
11. Detach electrical cable connections to the front frame.
12. Undo the clamp (1) and remove the hydraulic lines to the steering cylinders.



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**Figure 7**

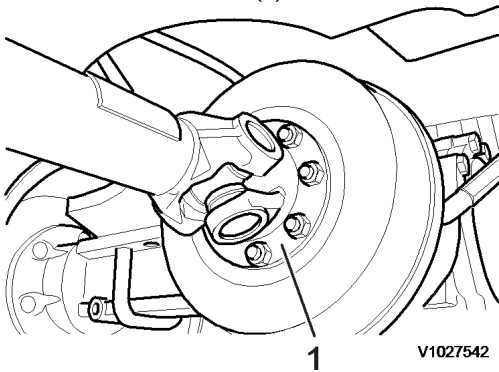
13. Remove the hydraulic line (1) of the differential lock and (2) brake at the front axle.



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**Figure 8**

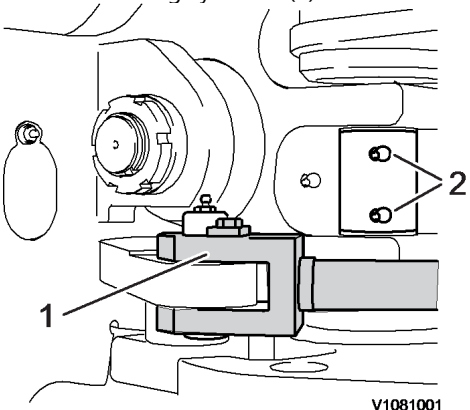
14. Remove the handbrake actuation wire.
15. Remove universal shaft (1) at brake drum.



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**Figure 9**

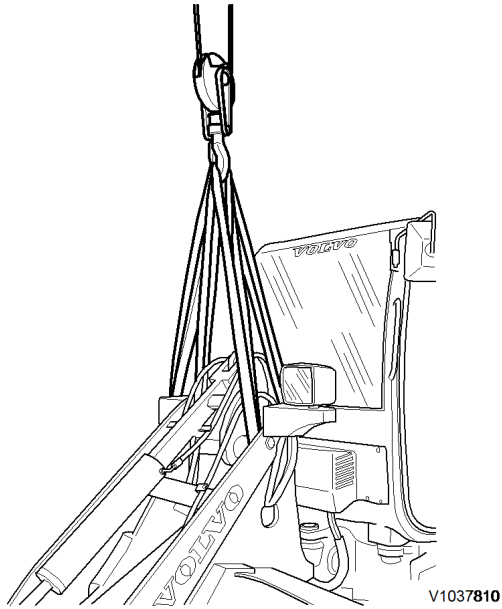
16. Remove steering cylinders (1).



V1081001

**Figure 10**

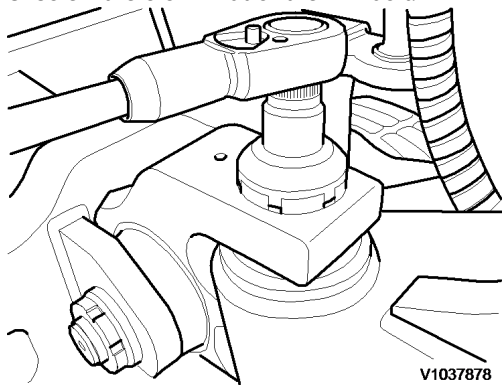
17. Remove the grease nipple (2) at the link bolt.
18. Suspend the front frame from a crane using suitable hoisting equipment.



V1037810

**Figure 11**

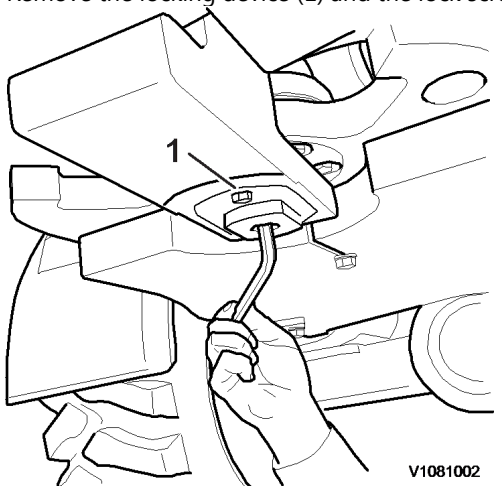
19. Unscrew the crown nut of the link bolt.



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**Figure 12**

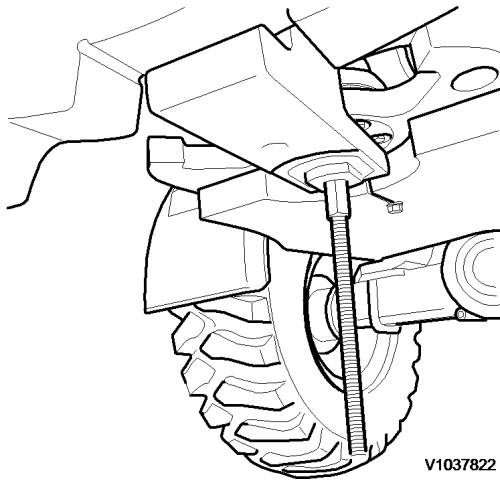
20. Remove the locking device (1) and the lock screw at the link bolt.



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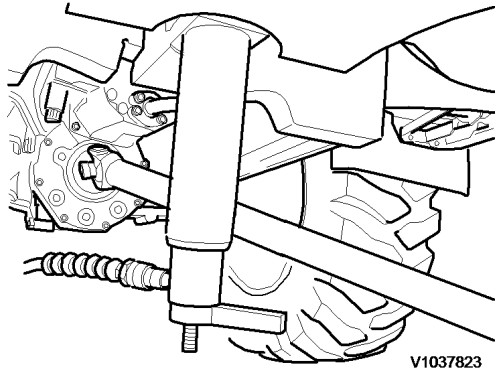
**Figure 13**

21. Fit extractor bolts.



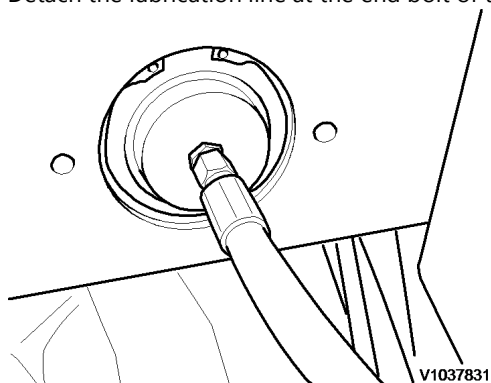
**Figure 14**

22. Slide the sleeve over the threaded rod. [080 E-tool Sleeve](#).



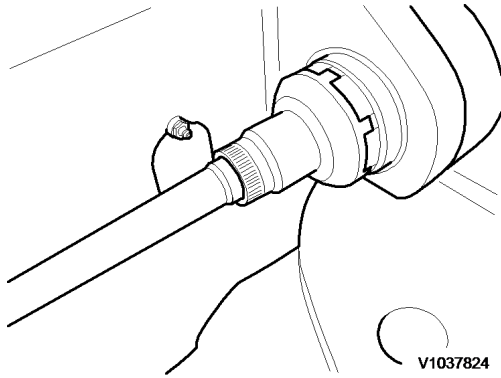
**Figure 15**

23. Fit puller and pump, and secure with extractor bolts.
24. Remove the link bolt.
25. Separate front frame from rear frame.
26. Detach the lubrication line at the end bolt of the oscillating hitch.



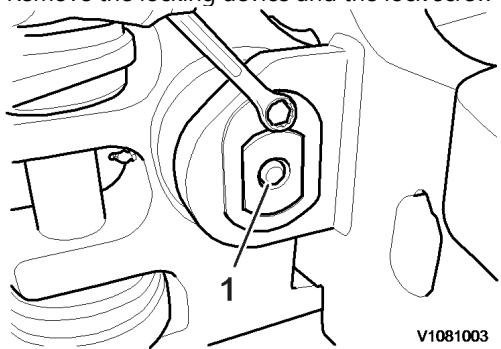
**Figure 16**

27. Unscrew the crown nut of the horizontal link bolt.



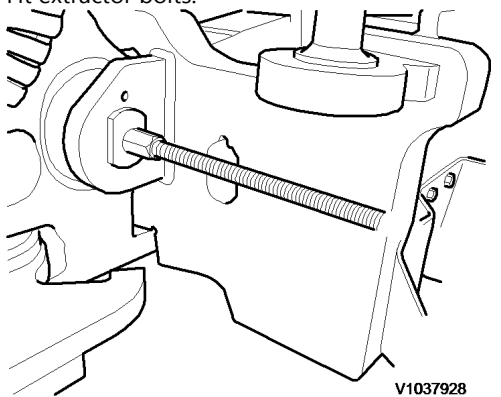
**Figure 17**

28. Remove the locking device and the lock screw (1).



**Figure 18**

29. Fit extractor bolts.



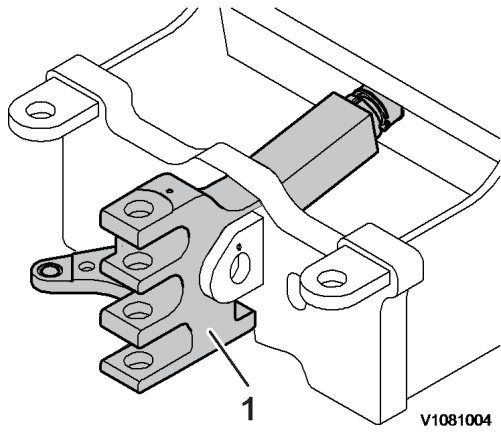
**Figure 19**

30. Slide the sleeve over the threaded rod. [080 E-tool Sleeve](#).
31. Fit puller and pump, and secure with extractor bolts.
32. Remove the link bolt.
33. Remove rubber dampers.
34. Using suitable hoisting equipment, remove the oscillating hitch (1) from the rear frame.

**NOTE!**

Oscillating hitch, weight approx. 100 kg (220 lb).





**Figure 20**

Document Title: <b>Frame joint, assembly of separated machine</b>	Function Group: <b>741</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L25F [GB]</b>			

## Frame joint, assembly of separated machine

Op nbr 741-002

[11666137 Force wrench insert for grooved nuts](#)

[173 Hydraulic oil level check](#)

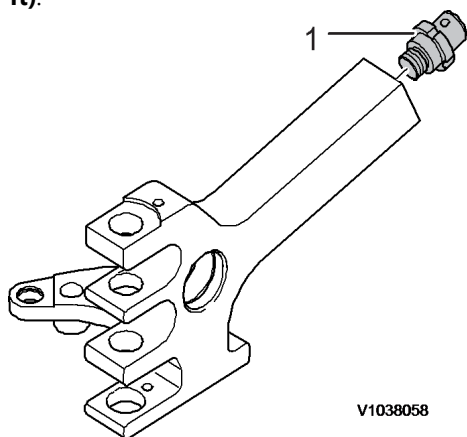


**The work involves handling heavy components - failure to stay alert may result in severe crushing injuries.**

### NOTE!

Freeze the link bolt approx. 12 hours before fitting.

1. Fit the rear end bolt (1) with Loctite 270 in the oscillating hitch and tighten. Tightening torque **1500 Nm (1106 lbf ft)**.

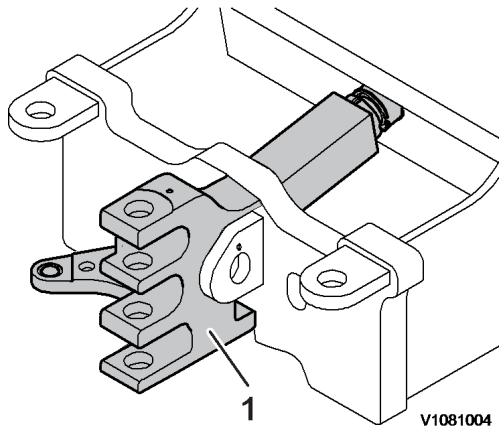


**Figure 1**

2. Using suitable hoisting equipment, install the oscillating hitch (1) in the rear frame.

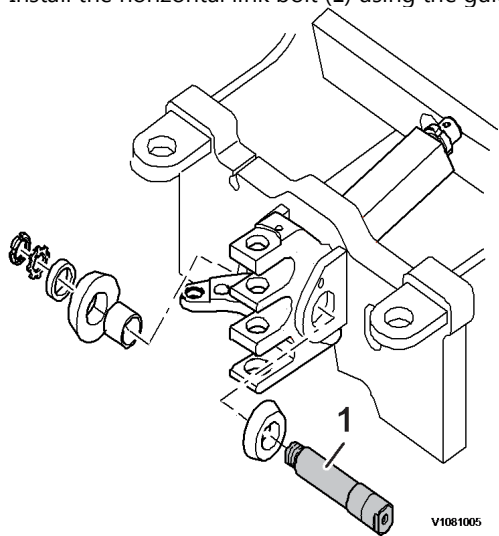
### NOTE!

Oscillating hitch, weight approx. 100 kg (220 lb).



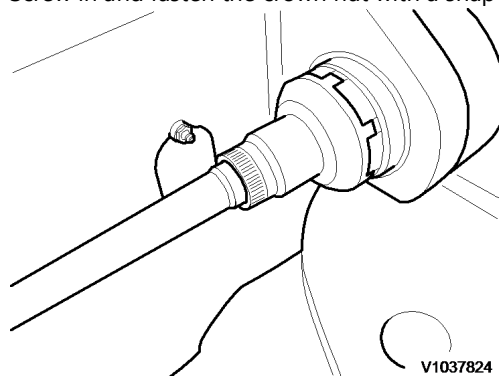
**Figure 2**

3. Install the horizontal link bolt (1) using the guide bolt [080 E-tool Guide bolts](#).



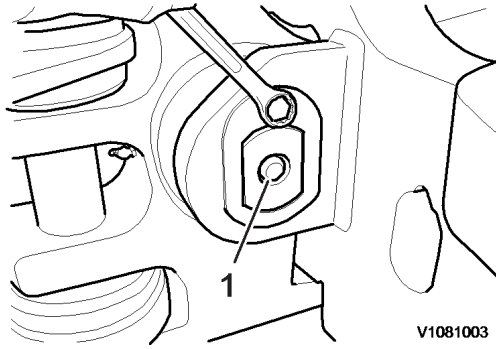
**Figure 3**

4. Screw in and fasten the crown nut with a snap ring. Tightening torque **400 Nm (295 lbf ft)**.



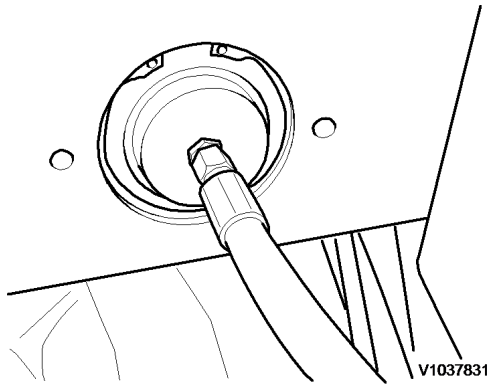
**Figure 4**

5. Fit the locking device and the lock screw (1).



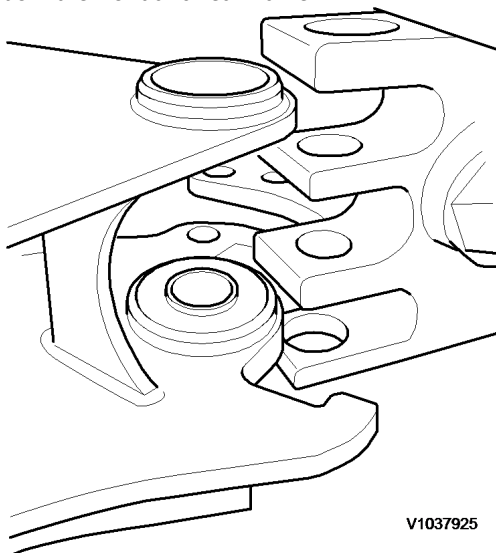
**Figure 5**

6. Attach the lubrication line at the end bolt of the oscillating hitch.



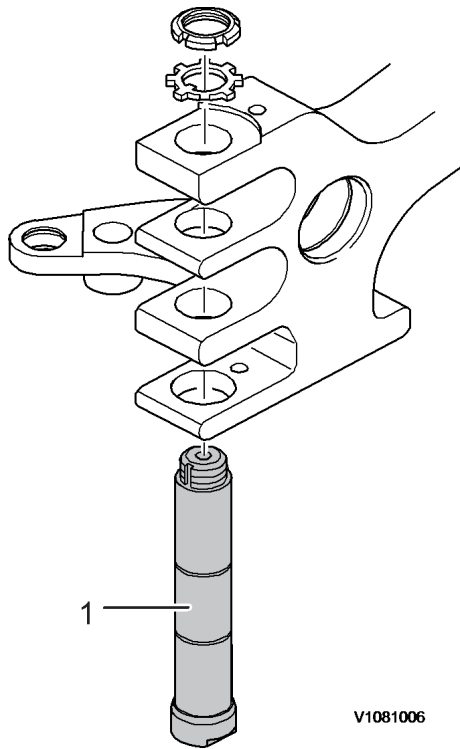
**Figure 6**

7. Join the front and rear frame



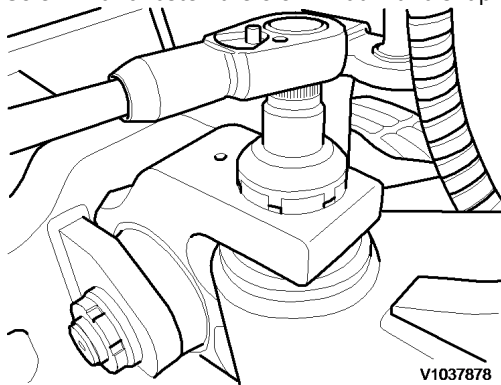
**Figure 7**

8. Install the link bolt (1) using the guide bolt [080 E-tool Guide bolts](#).



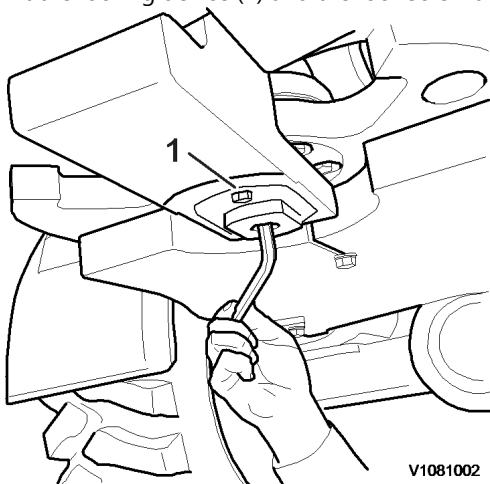
**Figure 8**

9. Screw in and fasten the crown nut with a snap ring. Tightening torque **400 Nm (295 lbf ft)**.



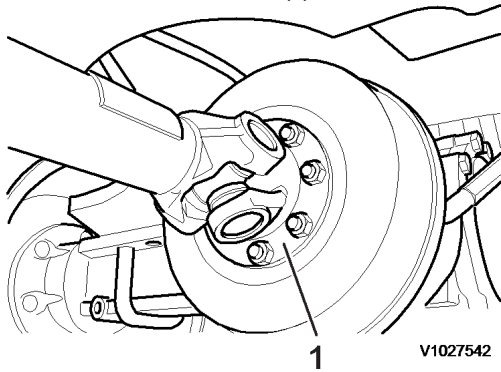
**Figure 9**

10. Fit the locking device (1) and the lock screw at the link bolt.



**Figure 10**

11. Mount the universal shaft (1) at the brake drum. Tighten lock nuts. Tightening torque 72 Nm (53 lbf ft).

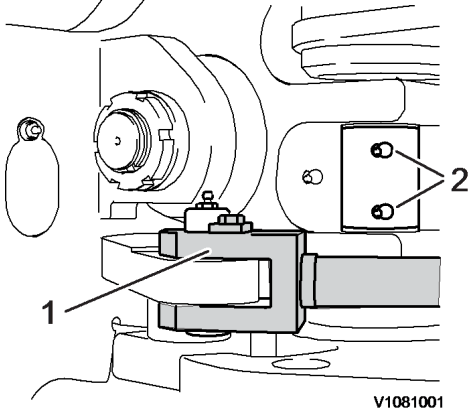


**Figure 11**

**NOTE!**

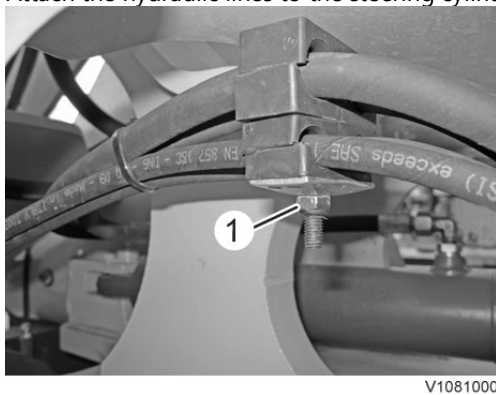
Use new lock nuts.

12. Fit steering cylinders (1).



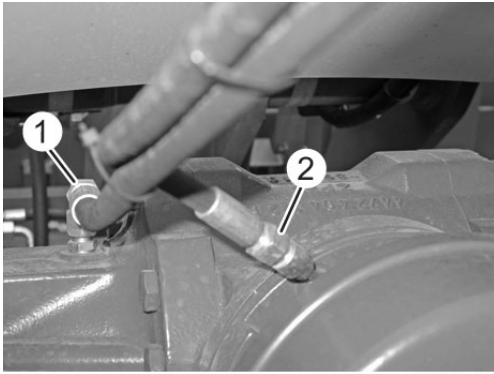
**Figure 12**

13. Screw a new grease nipple (2) at the link bolt.
14. Attach the hydraulic lines to the steering cylinder and fasten with clamp (1).



**Figure 13**

15. Fit the hydraulic line (1) of the differential lock and (2) brake at the front axle.



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**Figure 14**

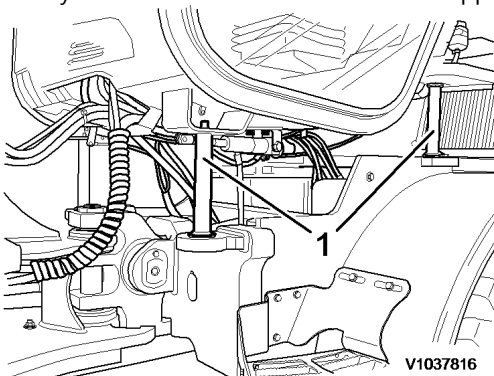
16. Attach the hydraulic lines at the front frame.



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**Figure 15**

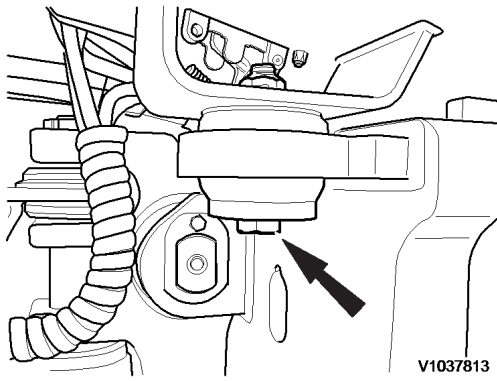
17. Attach electrical cable connections to the front frame.
18. Fit cable tie.
19. Install the handbrake actuation wire.
20. Slowly raise the cab and remove the cab supports (1).



V1037816

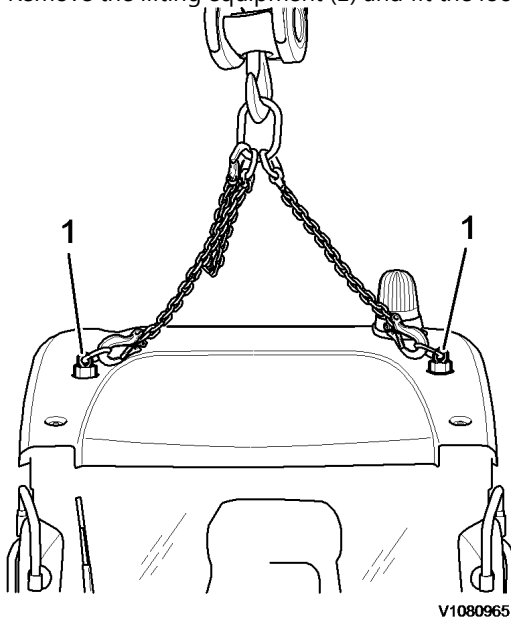
**Figure 16**

21. Insert the rubber bushing and put the cab into position.
22. Screw in and fasten the front and rear cab attaching bolts. Tightening torque **200 Nm (148 lbf ft)**.



**Figure 17**

23. Remove the lifting equipment (1) and fit the lock screws to the cab roof.



**Figure 18**

24. Fit the right-hand and left-hand side panel of the cab.
25. Carry out trial run, check for leaks.
26. Check the hydraulic oil level and top up if necessary. See [173 Hydraulic oil level check](#).

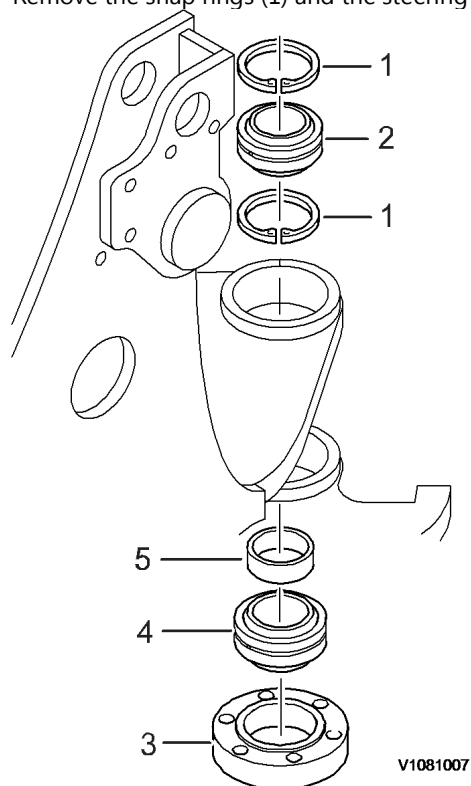


Document Title: <b>Frame joint, Replacing the front pivot bearing with machine separated</b>	Function Group: <b>741</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L25F [GB]</b>			

## Frame joint, Replacing the front pivot bearing with machine separated

Op nbr 741-022

1. Remove the snap rings (1) and the steering joint bearing (2) with an extractor.



**Figure 1**

2. Remove bearing caps (3).
3. Remove the pivot bearing (4) with an extractor and remove the bushing (5).
4. Clean both bearing seats.
5. Grease the new steering joint bearing (2) and press in with press device.
6. Fit snap rings (1).
7. Grease bushing (5) and insert.
8. Grease the new steering joint bearing (4) and press in with press device.

9. Fit bearing caps (3). Screw in the bolts with Loctite 270 and fasten. Tightening torque **75 Nm (55 lbf ft)**.

**NOTE!**

Use new bolts for installation.

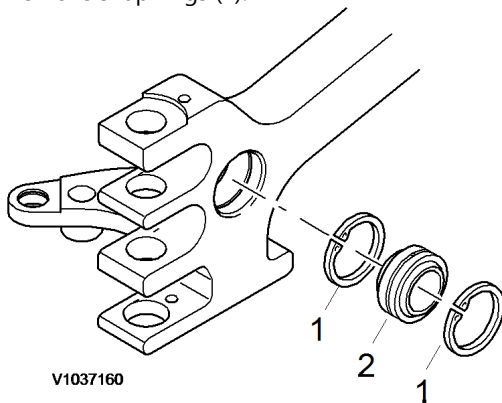
Document Title: <b>Frame joint, replacing the rear pivot bearing with machine separated</b>	Function Group: <b>741</b>	Information Type: <b>Service Information</b>	Date: <b>2014/3/8 0</b>
Profile: <b>CWL, L25F [GB]</b>			

## Frame joint, replacing the rear pivot bearing with machine separated

Op nbr 741-023

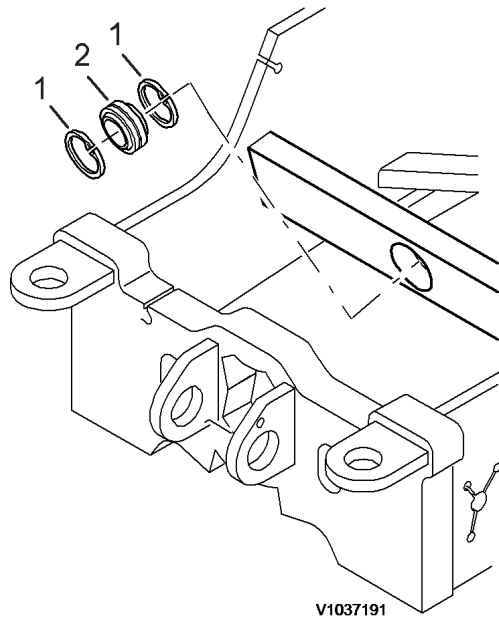
[9993791 Puller bolt](#)

1. Remove snap rings (1).



**Figure 1**

2. Remove pivot bearing (2) from steering joint using extractor.
3. Clean bearing seat.
4. Grease new pivot bearing (2) and press in.
5. Fit snap rings (1).
6. Remove the snap rings (1) from the crossmember.



**Figure 2**

7. Remove the pivot bearing (2) with the extractor bolts (9993791) from the crossmember.
8. Clean bearing seat.
9. Grease pivot bearing (2) and press in using press device.
10. Fit snap rings (1).

Many thanks for your purchase.  
Happy every day.