

Document Title: Frame, description	Function Group: 700	Information Type: Service Information	Date: 2014/4/25
Profile: WLO, L150E [GB]			

Frame, description

The front frame is constructed as an open box section.

The frame carries the loader unit and is also the attachment for the front axle.

The rear frame is constructed using two frame members. Each frame member consists of an closed box section.

The rear frame carries the cab, engine and transmission.

The counterweight and the rear axle are attached to the rear frame.

The engine and transmission are rubber-mounted in the frame.

Important attaching surfaces between the frame and components are machined for exact positioning of components and strong joints.

The frame joint is dimensioned to handle abundant stress.

The upper bearing arrangement consists of a link bearing and the lower bearing arrangement consists of two tapered roller bearings.

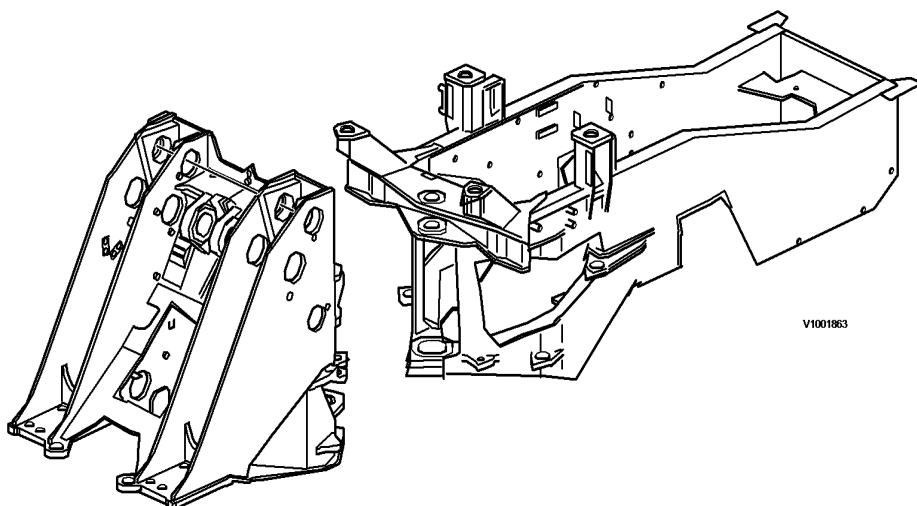


Figure 1
Frame L150E

Document Title: Protective plate, removing	Function Group: 715	Information Type: Service Information	Date: 2014/4/25
Profile: WLO, L150E [GB]			

Protective plate, removing

Op nbr

Ratchet block 750 kg (1654 lbs), 2 pcs.

Sling, 4 m (13 ft)

Sling, 6 m (20 ft), 2 pcs.

1. Attach the sling and ratchet block on the right-hand and left-hand sides to remove the lower protective plate.

NOTE!

Place the sling on the outside of the ladder and both sides of the protective plate.

Protective plate's weight **105 kg (232 lbs)**.

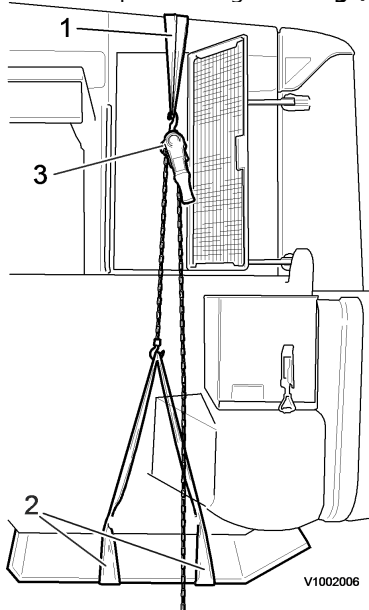


Figure 1
Removing, protective plate

1. Sling, 4 m (13 ft)
 2. Sling, 6 m (20 ft), 2 pcs.
 3. Ratchet block, 750 kg (1654 lbs)
2. Unscrew the protective plate retaining bolts (6 pcs).
 3. Lower the protective plate.

Document Title: Frame joint, description	Function Group: 740	Information Type: Service Information	Date: 2014/4/25
Profile: WLO, L150E [GB]			

Frame joint, description

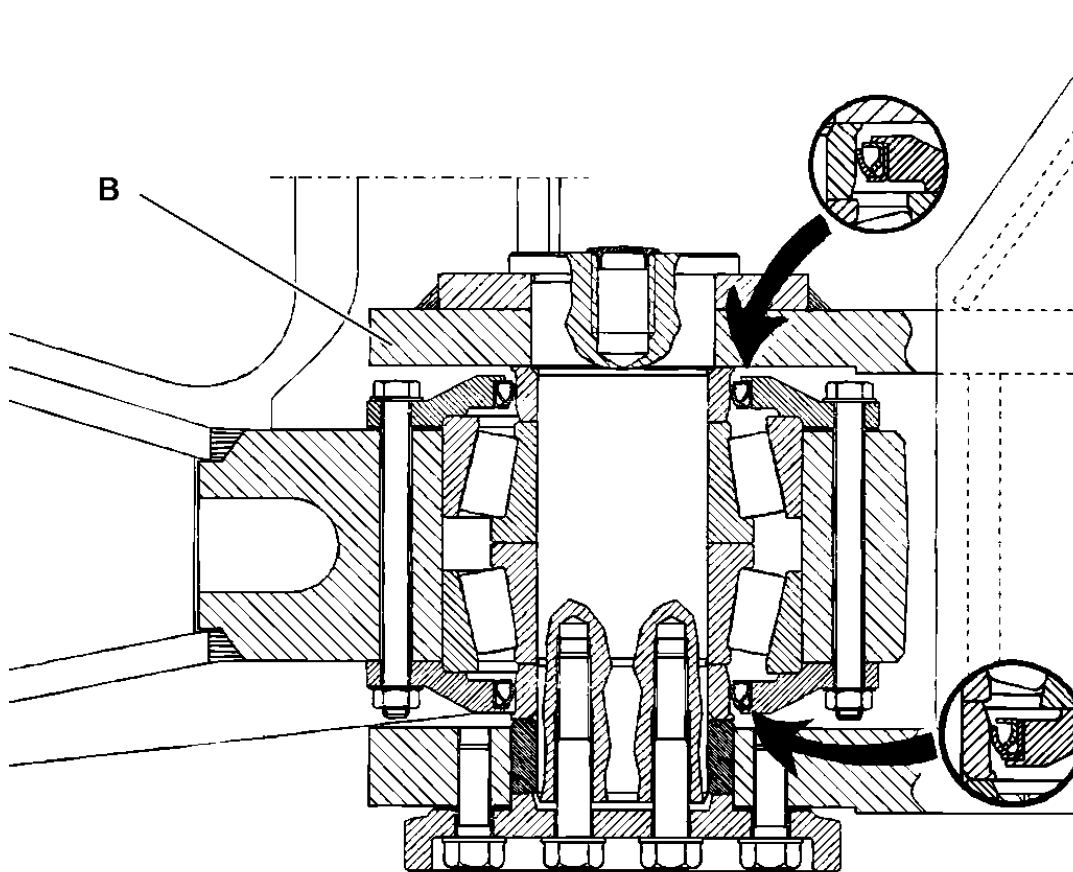
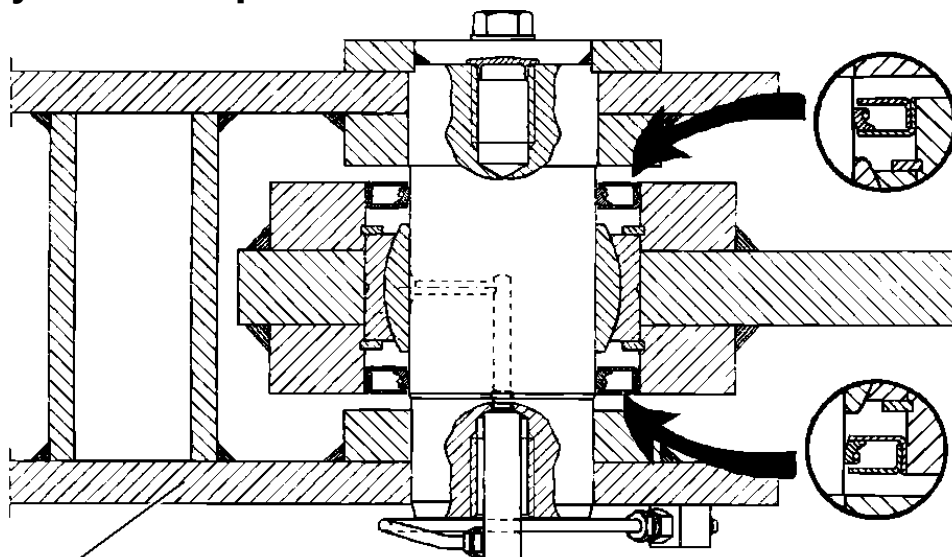


Figure 1
Frame joint bearing

- A. Upper frame joint bearing
- B. Lower frame joint bearing

Document Title: Frame joint, checking clearance	Function Group: 740	Information Type: Service Information	Date: 2014/4/25
Profile: WLO, L150E [GB]			

Frame joint, checking clearance

Op nbr 741-005

Dial test indicator with magnetic base

Garage jack 16 tons

Radial clearance, upper frame joint

1. Park the machine on a level surface and lift the bucket so that it does not rest on the ground.
2. Place a dial gauge between the front and rear frame by the upper frame joint.
Zero the dial gauge.

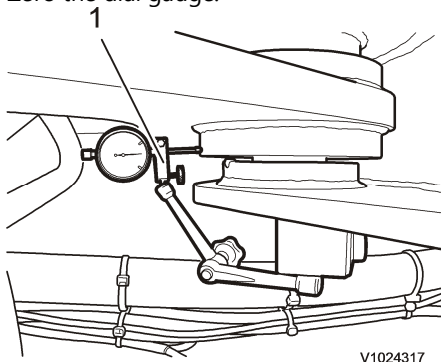


Figure 1
Measuring clearance

1. Dial test indicator with magnetic base
3. Lower the bucket against the ground and lift up the front wheels using the bucket, or with a garage jack under the bucket.
Read off the dial gauge.
Allowed clearance: **0.625 mm (24.6 thou).**
4. Restore the machine.

Document Title: Frame joint, changing bearings and pins	Function Group: 741	Information Type: Service Information	Date: 2014/4/25
Profile: WLO, L150E [GB]			

Frame joint, changing bearings and pins

Op nbr 74136

[9993651 Puller bolt M30 length 650 mm \(26 in\)](#)

[9993713 Puller bolt M20 length 700 mm \(28 in\)](#)

[9993715 Intermediate piece](#)

[9993722 Support](#)

[9993725 Puller bolt M20 length 155 mm \(6 in\)](#)

[9993739 Support](#)

[9993742 Socket](#)

[11666041 Pump](#)

[11668007 Jack 15 tons](#)

[11667001 Handle](#)

[11667100 Drift plate](#)

[11667110 Drift plate](#)

[11667120 Drift plate](#)

[11667130 Drift plate](#)

[11667170 Drift plate](#)

Pillar jack, 1.5 ton (3308 lbs)

Ratchet block 750 kg (1654 lbs), 2 pcs

Garage jack 16 tons, 3 pcs.

Stud bolt M16 x 260 mm M16 x 10 in), 2 pcs.

Dividing the machine

1. Remove the bucket. Lower the lift arms and tilt in fully. Relieve the hydraulic oil pressure by moving the servo levers back and forth repeatedly, with the ignition in position zero.
2. Release the brake system pressure by depressing the brake pedal repeatedly (30 – 40 times).
3. Turn off the current with the battery disconnect switch.
4. Drain the hydraulic oil.
Volume: **approx. 261 dm³ (69 US gal)**

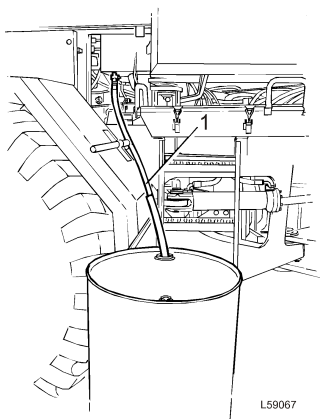


Figure 1
Draining hydraulic oil

1. Extended draining hose
5. Remove the middle propeller shaft.
Weight: **approx. 40 kg (88 lb)**.
6. Remove the grease nipple on the upper pin.
7. Remove the floor mat and the floor plates in the cab.
8. Remove the upholstery over the electrical distribution box and disconnect the front connector F and, where applicable, connector FA[1] ⓘ in the electrical distribution box and the connection to ground. Loosen the clamps and disconnect the cable harness from the rear frame part.
9. Detach the steering cylinder piston rods from the front frame section.
See [645 Steering cylinder replacement](#)
10. Connect a vacuum pump to the hydraulic oil tank.
See [910 Hydraulic oil tank, vacuum-pumping, connecting and disconnecting pump](#)
11. Screw loose the knobs on the lever carrier and remove the plastic covers.
12. Disconnect the hydraulic hoses from components located in the front frame joint and plug the disconnected hose ends.
 - 6 pcs. on the servo valve.
 - 4 pcs. by the central block.
 - 1 pc. on the brake valve.
 - 1 pc. on the hydraulic oil tank.
 - 2 pcs. on the block on the right side machine.
 - 1 pc. on the bracket on the right side machine.
13. Where applicable, disconnect the hydraulic hoses for 3rd and 4th function[2] ⓘ.
14. Where applicable, disconnect the connector 7.8 between cab and frame belonging to 3rd and 4th function[3] ⓘ.
15. Detach to enable removal of the upper frame joint pin.
16. Place three jacks under the machine's rear part, one under the tank and two under the rear frame's front edge.
The rear part is heavy at the rear
Place two jacks under the front frame part. One in front of the frame joint and one under the boom.

NOTE!

Without bucket, the front frame part is heavy at the rear.

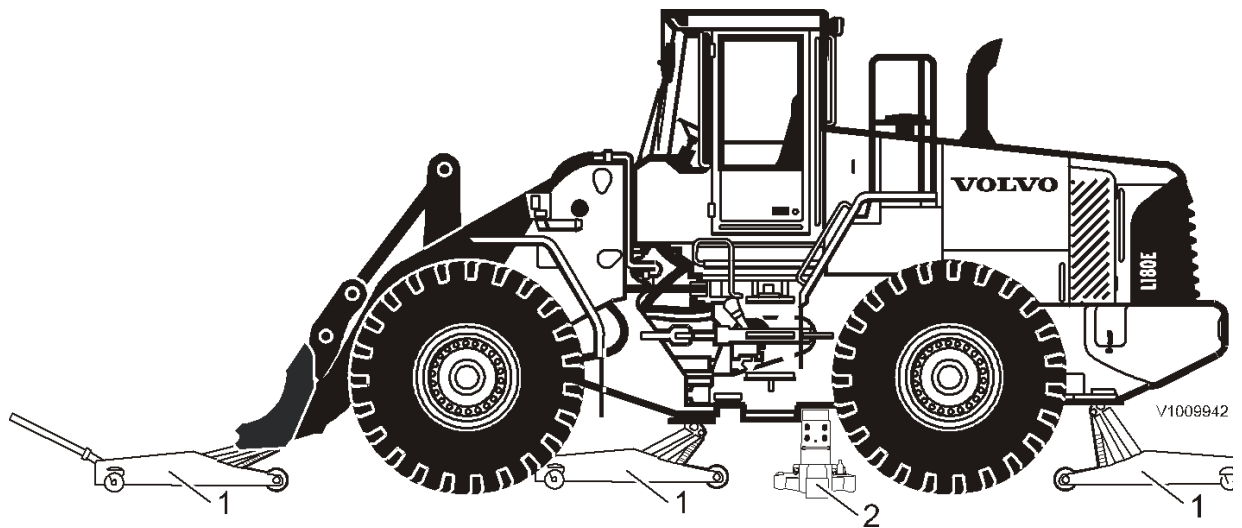


Figure 2
Securing machine with jacks

- 1. Garage jack
- 2. 11668007

Removing upper pin

- 17. Block the rear wheels.
- 18. Lock the rear axle to prevent swinging by placing jacks on both sides of the machine between the frame and rear axle.

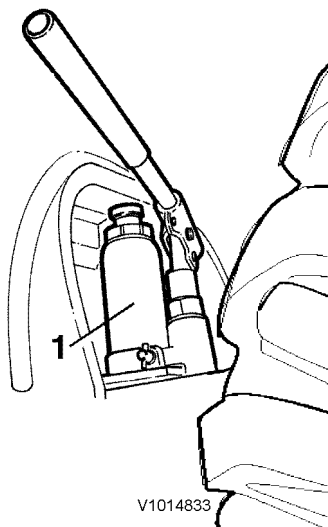


Figure 3

- 1. Pillar jack
- 19. Disconnect the hose bracket and move aside the hoses.

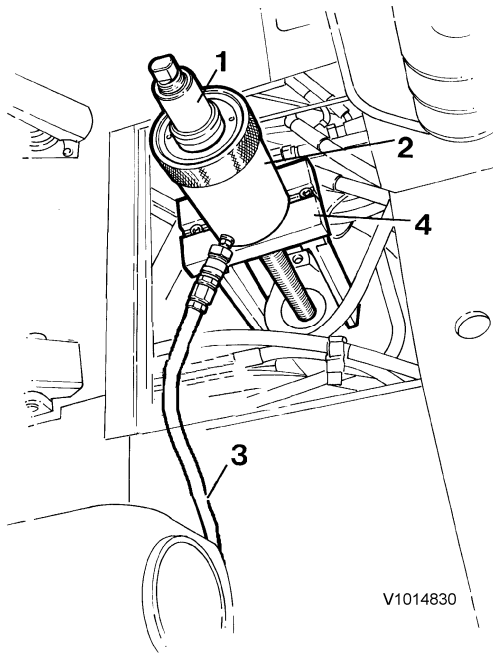


Figure 4
Pulling out upper pin

- 1. 9993651
- 2. 11666045
- 3. 11666041
- 4. 9993739

20. Remove the bolts for the upper pin.

21. Fit the tools on the upper pin and pull the pin out.

Removing lower pin

22. Remove the cover and adjusting shims under the pin.

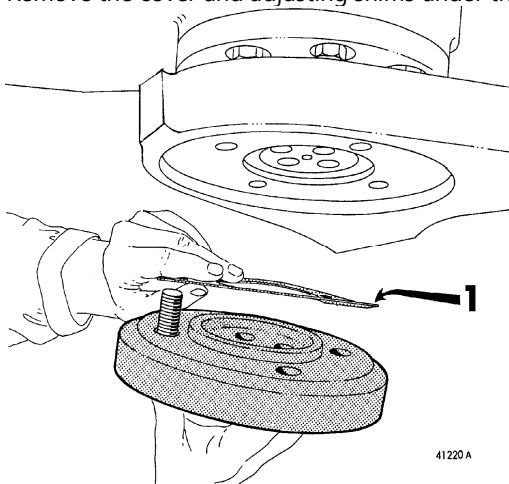


Figure 5
Removing cover

- 1. Adjusting shim

23. Fit the tools on the lower pin and pull the pin out.

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