

Document Title: Safety concerns everybody!	Function Group: 191	Information Type: Service Information	Date: 2014/8/21
Profile: ART, A30F (37432) [GB]			

Safety concerns everybody!

Always follow the instructions in the machine's operator's manual, which is a supplement to this Service Manual.

The Operator's Manual **must always** be kept in the cab for easy reference.

Volvo designs and manufactures machines with a high level of safety as well as effectiveness. All this work may be wasted if anyone who is about to perform service on any of our machines does not read the safety instructions, or does not follow them, e.g., does not replace guards, climbs on slippery machine parts instead of using a ladder, grabs a hold of hoses instead of handles or uses the wrong tools for the job.

In order to maintain safe and effective function, always use the intended and adapted spare parts for the machine. Using genuine Volvo spare parts is recommended since they are adapted to the machine for highest safety and quality.

Machines seldom cause accidents, instead people often do.

A safety-conscious person and a well-maintained machine make for a safe, effective and profitable combination.

Those who do not follow the safety instructions and observe the warnings in this manual must make sure that their work method is safe. Otherwise, there is a great risk of accidents, perhaps even accidents that result in fatalities.



WARNING SYMBOL

This symbol is shown at various points throughout the manual. The appearance of it means "Warning, stay alert! Your safety may be involved!"

Get to know the capacity and limits of your machine!

Document Title: Transporting the machine	Function Group: 176	Information Type: Service Information	Date: 2014/8/21
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Transporting the machine

Loading/unloading machine

- The carrier vehicle shall be securely braked and have its wheels blocked.
- If the machine is driven up, the steering joint shall not be locked.
- If the machine is lifted up on the carrier vehicle, the steering joint must be locked.
- During transport, the machine's steering joint must be locked and the wheels blocked.

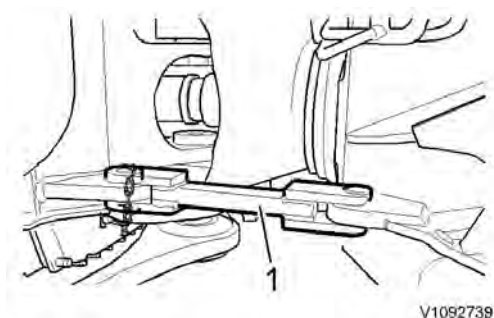


Figure 1

1. Steering joint lock



If the machine is to be driven from a loading dock onto the platform of a truck trailer or railway car, make sure that the vehicle is securely braked, for example, wheels blocked. Make sure that there is no risk that the vehicle cannot roll over or sway in a dangerous manner when the machine is driven on.

NOTE!

Do not forget to unlock the steering joint and secure the steering joint locks in the bracket provided for this purpose next time the machine is used.

Lashing machine for transport



Figure 2

Lashing machine

1. Lock the steering joint with the steering joint lock when the machine stands on the carrier vehicle.
2. Apply the parking brake and block the wheels.

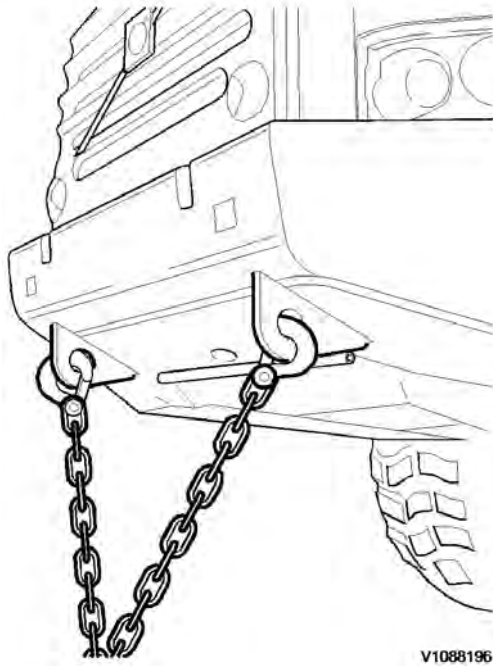


Figure 3
Lashing, front

3. Tie down the machine in the front and rear towing eyes.
4. Tie down the middle of the machine from the tie-down eyes on the hoist cylinder mounting.

Tie down the machine against the carrier vehicle's trailer bed so that it cannot slide, roll over, or start to roll.

Follow governing national regulations at all times.

Do not forget to unlock the steering joint and secure the steering joint lock in the intended brackets before the machine is used again.

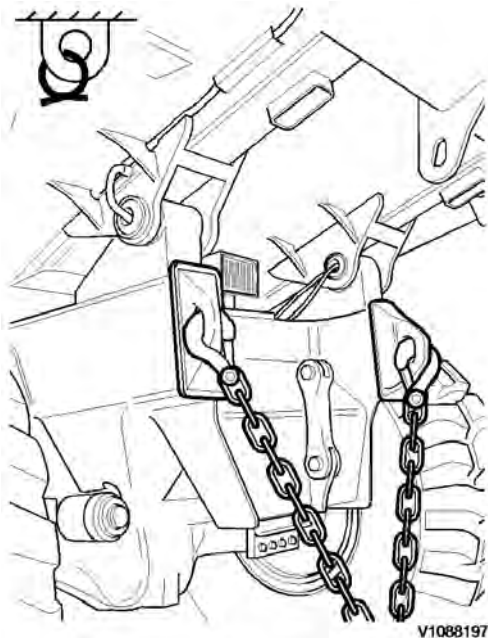


Figure 4
Lashing, rear

Action to take before towing and recovery

See [176 Recovering and towing](#) or Operator's manual, section "Operating".

Document Title: Safety when handling the machine	Function Group: 191	Information Type: Service Information	Date: 2014/8/21
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Safety when handling the machine

Volvo Construction Equipment Group is only responsible if:

- the machine has been used correctly and has been maintained according to recommendations in the service manuals and the machine's Operator's manual.
- prescribed service and inspections have been performed at the specified intervals.
- lubricant recommendations in the manual have been followed.
- no safety seals have been opened by an unauthorized person.
- all modifications and repairs have been performed in the manner prescribed by Volvo.
- only genuine Volvo parts/accessories, or attachments that fulfil Volvo's requirements have been used.



Machine operators must have sufficient skills and knowledge of the content in the Operator's Manual before operating the machine.

It is important that the operator reads and follows the instructions in the machine's Operator's Manual.

An untrained operator may cause serious injuries and fatalities.

Never operate a machine for which there is no Operator's Manual available.

Learn to understand the warning plates, symbols and operating instructions for the machine before you start operating.

A few safety rules

General

- Repair malfunctions or defects that affect safety as soon as possible.
- Always wear a hard hat, protective goggles, gloves, work shoes and other safety items that your work requires.
- Avoid standing in front of or behind the machine, and on or under the machine when the engine is running.
- To avoid unnecessary climbing on the machine, use a window scraper or brush with long handle when cleaning external window glass or rear-view mirrors.
- When servicing the machine, i.e. changing light bulbs, a ladder may be needed.
- Make sure that stepping surfaces, service areas, handles and slip-protection are clean and free from oil, diesel fuel, dirt and ice and that they're replaced if they are defective or missing.
- Check at regular intervals that all slip-protection is firmly attached. If not, these shall be attached or replaced.
- Always face the machine and use the steps and handrails when entering or leaving the machine. Use two hands and one foot, or two feet and one hand. Do not jump!

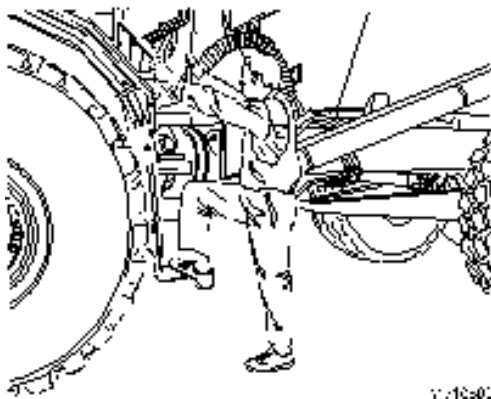


Figure 1
Entering/leaving the machine



Figure 2
Read the Operator's manual, plates and instructions before you operate the machine.

Before operating

- Read the Operator's manual before you operate the machine! Follow the instructions for operating and perform the indicated recommended actions before operating.
Some important rules below:
- Perform a control light test before starting the engine by turning the ignition key to position 1 (see Operator's manual).
- Perform all safety checks prescribed in the Operator's manual.

! WARNING

Never operate the machine if you are tired or under the influence of alcohol, medicine or other drugs.

- Before starting the engine indoors, make sure that ventilation is adequate for this. The machine is equipped with a diesel engine and the exhausts may be hazardous to your health. Therefore, ensure adequate ventilation and avoid running the engine more than necessary where ventilation is inadequate.
- Read all plates and instructions on the machine and in the Operator's manual before you operate or perform service on the machine. Each one of these contains important information regarding safety, handling and service.
- Always sit in the operator's seat when you start the engine.
- Use the lap type seat belt during all operation.
- The machine must be fully functional before it's put into operation, that is, all defects that may cause eventual accidents must have been repaired.

- Never operate the machine for long periods without ventilation, or with a completely closed cab without the fan on (to avoid lack of oxygen).
- Step only on the prepared non-slip surfaces and use the provided handles and rails.

Hip-type seatbelt

- Use the seat belt during all operation.



Figure 3

Use the seat belt during all operation

- If the seatbelt needs washing: Use a mild soap solution when washing and let the belt dry while it's fully pulled out before it's rolled up. Make sure that the belt is installed correctly.
- Replace the seatbelt immediately if it's worn, damaged or the machine has been involved in an accident where the belt had to take some strain.
- Modifications of the belt or its mountings is never permitted.
- The hip-type seatbelt is intended for one adult, not more.
- Always keep the belt rolled up when not in use.

When the engine is running

- Respector symbols and alarm displays. The red alarm displays require immediate action or consideration, see instructions in the Operator's Manual under information display unit.
- Move the gear selector to neutral position and apply the parking brake before leaving the machine.



Risk of crushing injuries

- Do not stand near the frame joint unless it has been locked with the frame joint lock.
- Stop the engine before you leave the machine unattended.

The cab is the operator's protection and meets the standards for roll-over protection according to test standards, (ROPS), see further [191 CE-marking, EMC-directive](#). Prerequisite for protection is that the operator uses the lap-type seat belt and remains in the cab in case of a roll-over. Therefore, hold on to the steering wheel if the machine rolls over. **Do not jump!**

The cab is dimensioned to fulfill the requirements for objects falling on to the cab roof according to given test methods (that is, FOPS, see further [191 CE-marking, EMC-directive](#)).

Alternative exit

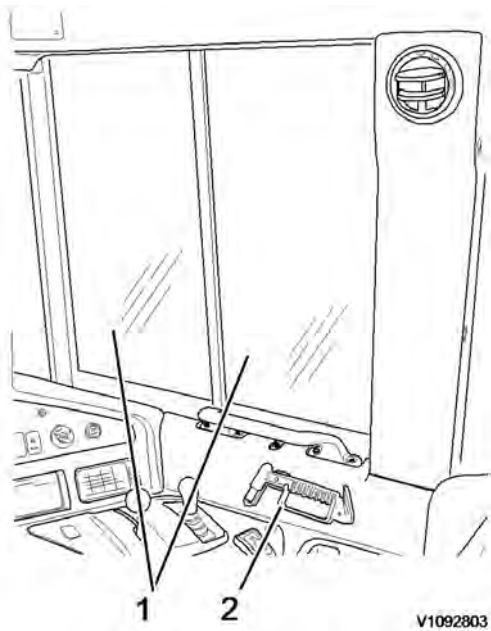


Figure 4

1. Alternative exit (right side of cab)
2. Hammer

Alternative exit is possible through the split side window in front of the B-pillar on both the right and left sides of the cab. Alternative exits are marked with a decal. In an emergency situation the window glass can be broken using the hammer. When the window glass has been broken, the moulding between the window's two parts falls away.

NOTE!

It is only possible to break windows marked with decal for alternative exit.



Figure 5

The hammer is used in emergencies to:

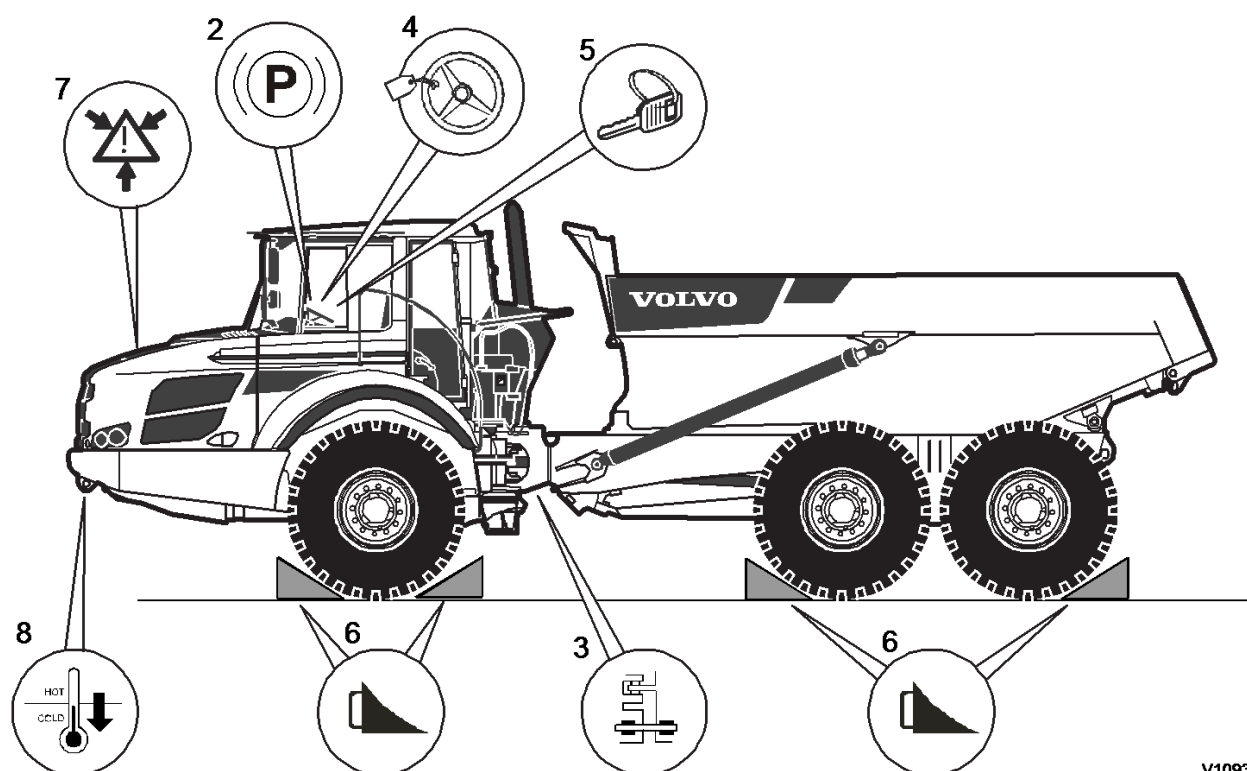
- break the window glass for alternative exits,
- cut the seatbelt with the knife located in the rear edge of the hammer.

Document Title: Service position 1	Function Group: 191	Information Type: Service Information	Date: 2014/8/21
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Service position 1

Op nbr 191-021

[88830046 Dump body support](#)



V1093769

Figure 1

1. Place the machine on firm and level ground.
2. Apply the parking brake.

! WARNING

Risk for personal injury caused by crushing. The machine could turn. Lock the steering lock.

! WARNING

Risk of crushing.

An unlocked raised dump body can fall down. Personnel standing under a falling dump body could be seriously injured, including death.

Always lock the dump body before entering under it.

3. Lock the steering joint with the steering joint lock. Lower the load body against the frame or elevate the load body and secure with the load body lock or 88830046 Dump body support.
4. During on-going service work, fasten a warning sign on the steering wheel with information that service is in progress.
5. Turn off the engine and remove the start key.
6. Block the wheels in a suitable manner (i.e. with wedges).
7. Depressurize pressurized lines and pressure tanks. See [520 Brake system, relieve pressure](#) and [900 Hydraulic system, relieve pressure](#).
8. Allow the machine to cool down.

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