

Document Title: Safety concerns everybody!	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
Profile: SSL, MC125C, MC155C, MCT135C, MC110C, MC115C, MC135C, MCT125C, MCT145C, MCT110C [GB]			

Safety concerns everybody!

Always keep the Operator's Manual in the machine for handy reference.

Many hours of skilled and careful design have gone into manufacturing the safest and most efficient machines possible. All of this time and effort could be wasted if an operator or service person does not read and follow safety instructions and procedures. Unfortunate accidents and personal injury can result from failure to replace guards, climbing on slippery areas instead of using a ladder, using hoses or other parts instead of hand rails and failing to use correct tools and procedures. Properly operated, maintained and serviced machines rarely cause accidents. Maintain and promote safe and efficient machine operation, and always use genuine spare parts designed and intended for each specific machine.



Any person who does not follow the safety instructions and who ignores warnings in this manual must make absolutely sure that their work method is safe. Otherwise, there is a great risk of serious accidents and injuries, perhaps even fatalities.



WARNING SYMBOL

This symbol will appear at various places in this manual along with a warning statement. It means: "Warning, be alert! Your safety is involved!"

Become familiar with the capacity and limits of the machine!

Document Title: Safety when handling the machine	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Safety when handling the machine

- Use the machine properly and maintain according to recommendations in the Service Manual and Operator's Manual.
- Perform the prescribed service and inspections at the specified service intervals.
- Follow lubricant recommendations in the manual.
- No safety seals shall be opened by an unauthorized person.
- All modifications and repairs shall be performed in the manner prescribed by Volvo.
- Only genuine Volvo parts/accessories or attachments that fulfil Volvo's requirements should be used.

WARNING

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.

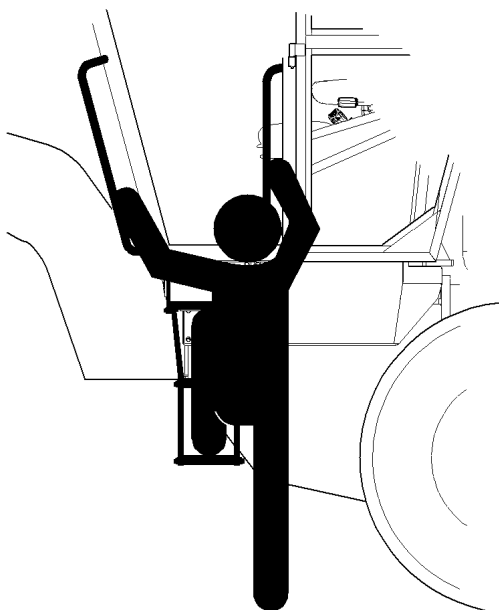
Never operate a machine for which there is no Operator's Manual available.

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

Document Title: A few simple safety rules	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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A few simple safety rules

General



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Figure 1**Three points of contact**

- Repair malfunctions that affect safety before operating machine.
- 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.
- Avoid unnecessary climbing on the machine.
- When servicing the machine, a ladder may be needed.
- Make sure that stepping surfaces, service areas and handles are clean and free of oil, diesel fuel, dirt and ice and that they are replaced if they are defective or missing.
- Always face the machine and use the steps and hand rails when climbing onto or off of the machine. Always maintain three points of contact (two hands and one foot or one hand and both feet) when climbing onto or off of the machine. Do not jump!

Document Title: Before operating	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Before operating

- Read the Operator's Manual before operating the machine! Follow the instructions for operating and perform the indicated recommended actions before operating.
- 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.

WARNING

Suffocation hazard.

- Before starting the engine indoors, be sure there is adequate ventilation. The machine is equipped with a diesel engine and the exhausts may be hazardous to your health. Avoid running the engine indoors for an extended period of time.
- Read all decals and instructions on the machine and in the Operator's Manual before operating or servicing the machine. Each one of these contains important information concerning safety, handling and service.
- The machine must be fully functional before it is put into operation. All malfunctions that may cause eventual accidents must have been repaired.
- Never operate the machine for long periods of time without adequate ventilation.
- Step only on intended stepping surfaces and use the provided handles and rails.

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Before service, read

This section covers general safety rules in connection with checking and service work. Other rules, as well as information and warning texts, are given in this manual and also in the Operator's Manual.

Service not performed correctly is dangerous. Make sure that you have sufficient knowledge, correct information, the right tools and the right equipment to do the service the correct way. Repair or replace broken tools and malfunctioning equipment. Prepare the machine for service by placing it in the proper service position.

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General

- When high-pressure washing the machine, do not aim the water jet directly at electronic panels, sensors or wiring.
- If someone is to take over what was previously started, make sure that this person is informed as to how much of the work has been done and how much remains.
- Never wear loose clothing or objects such as a scarf or jewellery that could get caught and cause personal injury when working on the machine.

WARNING

Never step on parts of the machine that are not prepared or intended for this, such as an open and raised engine hood (cover).

- Always wear a hard hat, protective goggles, gloves, work shoes and other personal protective equipment that the work to be performed requires.
- Always turn off the engine when servicing the machine unless instructions on signs and plates, or in this publication, state otherwise.
- Turn off the engine before opening engine covers, radiator covers and the like. Make sure that no tools or other objects that can cause damage are left on or inside the machine.
- When changing oil in the engine or hydraulic system, remember that the oil may be hot and can cause scalding or burn injuries.

Document Title: Cleanliness	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Cleanliness

- Cleanliness is important to effective machine service. Contamination introduced to machine systems can shorten component service life and cause the machine to malfunction.
- Oil and water make floors and steps slippery and are also hazardous in connection with electrical systems and electric power tools. Oily or greasy clothes and shop rags can be a serious fire hazard.
- The machine should be inspected daily for the build up of flammable debris. This will reduce the risk of fire and will make it easier to detect loose or leaking parts.
- **IMPORTANT!** If a high-pressure washer is used when cleaning, work carefully to avoid electrical components, especially electrical connectors, and insulation of the electrical cabling. These parts can be damaged even at a moderate water pressure and should be protected in a suitable manner.
- Protect all electrical components, electrical control panels and hydraulic solenoid valves against entry of water or steam when using high pressure cleaning methods. Do not use harsh cleansers which may damage painted surfaces. After washing, run the engine until it is warm. This will help to dry out engine components and electrical connections. Lubricate all grease fittings immediately following the cleaning of the machine.
- Take extra care to keep the machine clean in fire hazardous environments like saw mills, land fills, coal mines, etc. In such applications, suitable equipment to reduce the risk of fire should be installed and maintained.

Document Title: Electrical system	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Electrical system

- Check electrical wiring for chafing, breakage and any routing condition that could expose wiring to damage. This is especially important for positive electrical wires that could make contact with the frame (ground). Pay special attention to the cables between the batteries, from the batteries to the starter and between the alternator and starter.
- When reconnecting wires, connect, route and secure them so they are protected from damage and wear. Disconnected wires can not rest against oil or fuel hoses.
- If connectors have been unplugged from a control unit, both the plug and socket should be clean and dry before reconnecting.
- If any optional electrical equipment is installed on the machine, wiring must be connected across a fuse and routed to avoid exposure to wear or damage.
- When troubleshooting the electrical system, use only test instruments with a light-emitting diode (LED). Never use a test light with a bulb.
- When installing a two-way radio, mobile telephone, etc., installation must be performed according to the manufacturer's instructions in order to eliminate interference with electronic systems and components that are necessary for machine functions.

Document Title: Checklist after a fire or heat exposure	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Checklist after a fire or heat exposure

- As a precaution, all seals (o-rings, gaskets and other seals) should be handled as if they are made of fluor rubber. See also: [191 Health hazards with paint, plastics and rubber](#).



Avoid splashing when washing a machine damaged by fire. For this reason, never use high-pressure washing equipment.

- Never touch burned components or parts without proper personal protective equipment when there is a risk of exposure to burnt fluor rubber.
 - Wash thoroughly with lime water (a solution or suspension of calcium hydroxide, i.e. slaked lime)
 - Use thick protective gloves made of rubber.
 - Wear goggles and approved respirator.
- Seek medical attention if skin comes in contact with burnt fluor rubber. The skin should be treated with hydrofluoric acid burn jelly or something similar. Symptoms may not appear until several hours after contact with burnt fluor rubber.
- Discard protective gloves, rags and other items that may have come into contact with burnt fluor rubber.
- Ensure proper ventilation during the work.

Document Title: Health hazards with paint, plastics and rubber	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
Profile: SSL, MC125C, MC155C, MCT135C, MC110C, MC115C, MC135C, MCT125C, MCT145C, MCT110C [GB]			

Health hazards with paint, plastics and rubber

Work on painted surfaces

Never weld or cut with a torch on painted surfaces. All paint decomposes when heated and generates a vast number of different substances that may be irritating and, in case of repeated exposure, be very hazardous to your health.

The following safety actions must be taken:

- Remove the paint by sandblasting at least 100 mm (4 in) around the welding or cutting point (use breathing protection). If the paint cannot be removed by sandblasting, it must be removed in another way, such as with paint solvent.
NOTE!
If the paint is removed with a paint solvent, use an air extractor, face/breathing protection and protective gloves.
- Grinding machines with high-speed grinding discs also heat the paint and should only be used if equipped with an air extractor. Also wear a face mask or other breathing protection.

Rubber and plastics



WARNING

When heated, rubber and plastics can give off substances that are hazardous to personal health and the environment.

The following Safety rules must be followed:

- Do not weld or cut with a torch near polymer materials (plastics and rubber) without first protecting them from the heat.
- Never burn polymer materials when scrapping them.
- Be careful when handling a machine that has been exposed to fire or other intense heat. See also [191 Checklist after a fire or heat exposure](#)
- Always use gloves, safety goggles and a face mask or other breathing protection.

Fluor rubber



WARNING

Risk of serious corrosive injuries!



WARNING

When hydrogen fluoride rubber is heated, there is a risk of hydrogen fluoride gas build-up already at approx. 320 °C (610 °F). When inhaled, the gas is extremely corrosive to respiratory tracts.

Certain seals designed to withstand high operating temperatures (i.e. in engines, hydraulic motors and pumps) may be made of fluor rubber which, when heated to high temperatures, forms hydrogen fluoride and hydrofluoric acid.

Hydrofluoric acid may remain on machine parts for a very long time (several years) after a fire.

NOTE!

In case of contact with hydrofluoric acid, it may take several hours before any symptoms appear.

If swelling, redness or burning sensations appear and it is suspected that contact with heated fluor rubber may be the cause, seek immediate medical attention. If a machine or component has been exposed to fire or other source of intense heat, it should be handled by specially trained personnel.

For all handling of machines after a fire, wear heavy-duty, neoprene rubber gloves and effective protective goggles. See

[191 Checklist after a fire or heat exposure](#).

See [191 Environmental handling for the future](#).



Burning of painted parts, plastic or rubber parts constitutes a health hazard.

Decontamination

The area around a heated machine part that is suspected to be made of fluor rubber shall be decontaminated by thorough and ample washing with lime water (a solution or suspension of calcium hydroxide and water). After completing the decontamination work, wash the gloves in the lime water and then discard them.

If the machine has been exposed to a fire or other intense heat, the safety actions in [191 Checklist after a fire or heat exposure](#) should be followed unconditionally at all times.

Asbestos information

The components in Volvo CE's machines are free from asbestos. That is why it is important to use genuine Volvo spare parts.

Document Title: Safety when handling oil and fuel	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Safety when handling oil and fuel

- When changing oil in the engine or hydraulic system, remember that the oil may be hot and can cause scalding or burn injuries.
- Engine and hydraulic oils, as well as diesel fuel, have a corrosive effect on mucous membranes (i.e. eyes, throat and on skin). Take special care to keep oils away from these sensitive body parts.
- Oils and fuels are hazardous to the environment. Take special care not to spill or discharge these fluids. Use approved containers and methods to handle and dispose of machine fluids. Use an authorized disposal and recycling company. See also [191 Environmental handling for the future](#).
- Be aware of the risk of fire.

Document Title: Safety when working with batteries	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Safety when working with batteries

Batteries contain sulphuric acid which is very corrosive to the human body and parts of the machine. In addition, batteries emit hydrogen gas when they are loaded (supplying electricity) or being charged. Together with the oxygen in the air, hydrogen gas forms a very explosive mixture.

This combination, corrosive acid and explosive gas, makes the risk of accidents very high when working with batteries in vehicles.

It is very important that work is done carefully and that the several safety rules are followed when working with batteries.

When charging batteries, follow the instructions below:



Explosion hazard.

- Never smoke near batteries.
- Begin by disconnecting the ground lead when removing a battery. In order to reduce the risk of sparks that can cause fire, always connect the ground lead last when installing a battery.
- Never tilt a battery to a great extent in any direction. Battery electrolyte may leak out.



The battery electrolyte contains corrosive sulphuric acid. Electrolyte spilled on bare skin should be removed immediately. Wash the affected area with soap and plenty of water. If electrolyte gets into your eyes or any other sensitive body part, rinse immediately with plenty of water and seek immediate medical attention.

- Do not connect a discharged battery in series with a fully charged battery. The current surge can cause the batteries to explode.
- Make sure that metal objects (such as tools, rings, straps, etc.) do not come in contact with the battery terminals. Personal injury and fire may result.
- Always cover the top of the batteries with a cloth or other non-conducting material when working close to the batteries.
- Always refit the terminal caps on the batteries.
- Batteries contain substances that are hazardous to health and the environment. Discarded batteries must be disposed of according to local environmental regulations.

Document Title: Charging batteries	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Charging batteries

WARNING

Explosion hazard.

When a battery is being charged, an explosive mixture of oxygen and hydrogen is formed. A short circuit, open flame or spark near the battery can cause a powerful explosion. Always turn off the charging current before disconnecting the charging clamps. Ventilate well, especially if the battery is charged in a confined space.

WARNING

Corrosive sulphuric acid

The battery electrolyte includes corrosive sulphuric acid. Electrolyte spilled on bare skin must be removed immediately. Wash with soap and plenty of water. If electrolyte gets into your eyes or any other sensitive body part, rinse immediately with plenty of water and seek immediate medical attention.

Document Title: Safety when lifting and supporting the machine	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
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Safety when lifting and supporting the machine

- When lifting or supporting machine parts, use equipment with a lifting capacity that equals at least the weight of the part to be lifted.
- All lifting devices, such as straps, slings and chains, must comply with governing national regulations for lifting devices.
- If a jack is to be used, make sure that the ground or floor is even and is strong enough to support the expected load.
- Prevent the machine from rolling by applying the parking brake and placing suitable wheel chocks or wedges on both sides of each track to remain on the ground.
- Always use a jack with sufficient lifting capacity.
- Make sure that the jack is correctly positioned and is at the correct angle to the lifting point on the machine.
- Take care to position supports or jack stands under the machine in a safe manner.

Document Title: Environment	Function Group: 191	Information Type: Service Information	Date: 2015/10/10
Profile: SSL, MC125C, MC155C, MCT135C, MC110C, MC115C, MC135C, MCT125C, MCT145C, MCT110C [GB]			

Environment

Our global environment is currently exposed to severe stress due to ever-increasing, worldwide industrialization. Nature, animals and humans all over the world are exposed daily to great risks in connection with different ways of handling chemicals.

There are still no oils, coolants, etc. on the market that are not harmful to the environment. All who handle, perform service on or repair vehicles must use the devices and methods that are necessary for performing their work in an environmentally correct manner.

Contribute to careful use of natural resources by taking scrapped materials to recycling or destruction companies.

REUSE of products is best from an environmental aspect.

DUMPING is the worst from an environmental aspect and should be avoided as much as possible.

MATERIAL RECYCLING for use in new products is a good environmental alternative.

ENERGY RECOVERY by burning combustible materials is a good alternative when recycling is not possible.

DESTRUCTION is used for hazardous waste. Destruction is performed in special facilities.

STORAGE is a temporary measure until a suitable recycling method has been developed.

Environmentally safe handling

Always choose an environmentally friendly alternative when one is available.

Always follow national and local environmental regulations.

All waste shall be taken to an authorised waste handling company.

Batteries, etc.

- Batteries contain environmentally hazardous substances and corrosive acid. Batteries shall be left for recycling.
- Components like batteries, plastic objects and other potentially environmentally hazardous waste may not be discarded randomly.

Oils/Fluids

- Oils and fluids that are not reused shall be collected in tight-sealing containers and left for destruction.
- Oils that were freely released cause environmental damage and can also start fires. When draining/emptying oils or fuel, suitable action must be taken to prevent unnecessary spills.
- Waste oils/fluids must always be taken to an authorised disposal or recycling company.
- Watch for any oil leaks or leakage of other fluids! Repair the leak immediately.

Chemicals

- Chemicals, paints, glue, cleaning agents, etc. shall be left for recycling or destruction.

Rubber and plastics

- Rubber materials and plastics may not be burned. They shall be left for recycling.
- Tyres shall be handled according to local environmental regulations.

Electronics

- Electrical and electronic waste such as circuit boards and bulbs shall be left for recycling.



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