

Document Title: Leak detector 951 1207, description	Function Group: 080	Information Type: Service Information	Date: 2/3/2023
Profile: L250G Volvo			

Leak detector 951 1207, description

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Model	Production site	Serial number start	Serial number stop
L250G Volvo			

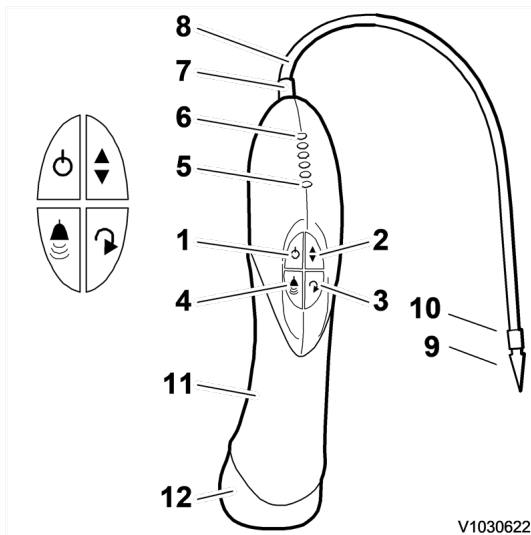


Figure 1

Leak detector 951 1207

1. Start/Stop
2. Sensitivity High/Low
3. Reset
4. Alarm
5. LED-indicator 1, lit when the leak detector is on
6. LED-indicator 2–6 for visual leak size
7. Sensor
8. Flexible probe
9. End of probe
10. Filter
11. Outlet for charger
12. Battery



Explosion risk when using leak detector in explosive environments.

Leak detector 951 1207 shall be used to check sealing of the AC unit. The leak detector indicates refrigerant leakage with audible signal and visual signal, the audible signal can be disconnected.

The instrument is designed around a microcomputer, and a sensor part. The sensor current is affected by the content of refrigerant gas in the surrounding air.

Battery

The LED-indicator closest to the buttons is always lit when the leak detector is on.

- The battery is fully charged when the LED-indicator is activated with a green light.
- The battery should be recharged after use when the LED-indicator is orange.
- The battery should be recharged immediately when the LED-indicator is red.

Charging of battery

NOTE!

To avoid damaging the battery, it should only be charged in temperatures between 10 °C – 40 °C (50 °F – 104 °F).

Connect the charger on the back of the leak detector and plug in to a wall outlet.

- Fast flashing orange = battery is being charged.
- Slow flashing green = battery fully charged.
- Slow flashing red = battery cannot be charged.

The leak detector can be connected to the charger when it is not in use. When the battery is fully charged, the charger will only provide the battery with a trickle-charge.

Sensor

The sensor needs to be replaced every once in awhile. The first LED-indicator will flash when it is time to replace it. If the sensor is missing or is completely defective LED-indicator 2 – 6 will flash red quickly.

Sensor, changing

- Carefully turn the flexible probe counter-clockwise at the connection on the leak detector, to expose the sensor.
- Remove the sensor by carefully gripping under the flange to pull the sensor straight out.
- Install the new sensor so that the pins fit in the contact. Carefully press in the sensor in the contact until the orange seal is half as big as its original size.
- Screw the flexible probe into place clockwise.

NOTE!

Never use the leak detector without the flexible probe.

Probe

The end of the flexible probe can be removed for cleaning and filter change.

- Loosen the end of the probe to check if the filter is discoloured or dirty. Change if needed.
- The end of the probe can be cleaned with a mild cleaning agent. Let it dry completely before it is reinstalled.

Button functions

1. **Start/Stop = Button 1** Always start the leak detector in fresh air.
2. **Setting sensitivity = Button 2** The leak detector has two modes for sensitivity High/Low. When the unit is started it is set to high sensitivity. To change sensitivity, press in button 2. Then the LED-indicator will be activated with orange light starting from the upper light to go to the lowest. To change from low to high, the orange signal will run from the lowest to the uppermost light. An audible signal will also be activated to confirm the selection.
In the high sensitivity mode, the unit will beep quickly approx. 2 times every other second in fresh air.
In the low sensitivity mode, the unit will beep approx. 1 time every other second in fresh air.
3. **Reset function = Button 3.** This button can also be used during leak detection. By pressing in button 3 the sensor will search for a higher concentration of refrigerant than the previous value. In this way, the leakage area can be pinpointed. To set a more sensitive mode, press in button 3 in fresh air. Every time that the reset button is pressed in the LED-indicator will flash, to confirm the activation.

NOTE!

When checking for major leaks it is better to set the leak detector to low sensitivity.

4. **Audible alarm = Knapp 4** Activate/deactivate button 4 for audible alarm and visual alarm, or only visual alarm.



Explosion risk when using leak detector in explosive environments.

Leak detection

1. Press in button 1 to start the unit.
 2. The LED-indicator will flash from below and upward during the time that it warms up (approx. 20 seconds).
 3. Select sensitivity with button 2. Start leak detection.
 4. If a leak is detected, the unit will emit an audible signal and a light signal. The signals will increase in intensity the higher the refrigerant concentration.
- Green = minor leak
 - Orange = medium leak
 - Red = major leak

Leak detection tips

When the engine is off the air conditioning system should be charged with refrigerant that gives a value of at least 340 kPa (50 PSI) on the pressure gauge. At temperatures below 15 °C (59 °F), it is difficult to detect leaks if the system does not have that pressure.

Keep the end of the sensor and probe clean. Clean with a dry rag. Do not use cleaning agents on the sensor as it may react to it.

Check the entire AC system visually and look for signs of refrigerant leaks, e.g., damage and rust on pipes, defective hoses and components.

Follow the system in one direction to not miss areas with potential leaks. Do not move the leak detector too fast.

The refrigerant gas may be heavier than the air and may collect under the leakage area itself. That is why leak detection should also be performed under possible leakage areas.

In spaces where there have been major refrigerant leaks, it is possible to reset the leak detector in fresh air to prevent it from reacting to the surrounding air which contains refrigerant.

Avoid leak detection in a windy environment. Try to provide wind protection for the area to be checked.

Keep in mind that a leak is an even flow of refrigerant, that is why the leak detector will emit a repeated signal at the leak itself every time that the leak detector closes in on it. Not repeated signal is often a sign that you are close to the leak.

When the leak has been found, it can be verified by:

1. Blowing clean with compressed air at the suspected leakage.
2. Moving the leak detector to fresh air and then resetting it. Then hold it as close as possible to the suspected leak and move it slowly around the area to verify the leak.

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Electric welding

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The battery disconnect switch must be turned off or the battery ground lead must be disconnected before any electric welding on the machine or connected attachments is carried out.

Connect the welding unit as close as possible to the welding point.

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Electric welding

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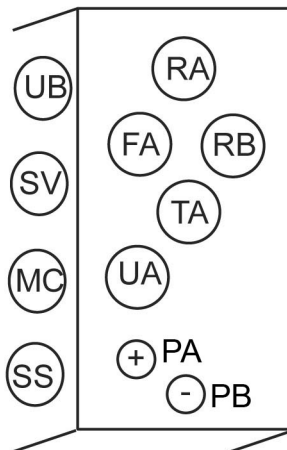
For electric welding on the machine or on attachments on machine:

- voltage feed turned off with battery disconnect switch
- all connectors in the cab's rear wall shall be unplugged to avoid damaging the machine's electronics.

NOTE!

Ground the welding unit as close as possible to the welding point.

Welding on the cab is not permitted, it affects the cab's approval for FOPS and ROPS .



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Figure 1

Connectors on the rear of the cab wall

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