

# SILVA

## FULL VERSION MANUAL

# 125FTC

Art.no 37195-0011 (MN), 37195-0013 (ME), 37195-0015 (MS)



### SILVA MARINE COMPASS 125FTC

A compass designed for boats and yachtsmen that demand absolute accuracy and a steady card in all conditions and heeling angles. It is flush-mounted, with an apparent scale size of 125mm and a gimballed cradle.

Features include the possibility to compensate for magnetic field disturbance, integrated illumination in the adjustable protection cover for ideal night vision and counter-balanced lubber lines that remain vertical even in rough seas. The extended centre needle eliminates parallax errors and facilitates off course bearings.

### PRODUCT OVERVIEW

- The SILVA 125FTC compass is a suitable compass for most larger sailing and motor yachts.
- The compass permits up to 45° heeling and unlimited tilting fore and aft.
- The yellow main lubber line is curved to reduce parallax errors.
- There are two 45° aid lines in contrasting colour and two 90° white lines marking the transverse direction. A sighting peg from the centre facilitates off course bearings.
- Built-in illumination for 12V. Adaption to 24V: The illumination is connected by a resistor in series (270 ohm, 0,5W).

The packaging includes:

- Compass unit
- Compensator
- Mounting kit

### ILLUMINATION

This compass can be supplied with illumination 12V.  
Adaptation to 24V-illumination connected in series by a resistor of 270 ohm, 0.5 W.

### POSITIONING

The compass should be positioned where it can be easily read from all angles, even in darkness when illuminated. Position the compass as far as possible away from iron objects or other disturbing magnetic sources as loud speakers, windscreen wipers, instruments etc.  
**NB!** SILVA's electronic instruments do not disturb the compass.

When checking for magnetic disturbance, use an ordinary SILVA handheld compass, held in the fore-and-aft direction around the intended mounting site. In most cases 0.5 to 1 metre between the compass and the source of disturbance will be sufficient. Do not forget to switch on all electrical equipment near the compass when making this check.

### MOUNTING

#### FLUSH MOUNT



SILVA 125F is designed for horizontal flush mounting. It should be mounted in a steady base to prevent oscillation of the card. To avoid engine vibrations, a rubber sheet can be placed under the mounting ring.

1. Cut a hole with  $\varnothing$  126 mm according to the enclosed template. NB! Be sure to have a free depth of 69 mm minimum. If a compensator is needed, some extra space is required.
2. Loosen the 2 screws and lift off the compass.
3. Place the compass in the hole with the lamp body towards the bow.
4. Align the compass exactly in the fore-and-aft direction and drill the 4 screw holes as per the template. Mount the compass with the enclosed 4 screws. NB! Replacement screws must be of non-magnetic material. For all through deck mounting, sealing is recommended.
5. Mount the compass and the mounting ring with the lamp body and the main lubber line towards the bow.



### COMPENSATION AND DEVIATION

Compensation is recommended, if the deviation is more than 5 degrees, when the compass is in its normal mounting position.

If the error is less than 5 degrees, it is sufficient to produce a deviation table. Adjust by using a compensator (optional extra) and eliminate or at least reduce the errors that iron or other sources of magnetic disturbance may have on the compass.

When compensating, the boat should be in an area that is not affected by permanent- or electromagnetic disturbances.

1. Aim the boat due North and turn the "N/S" screw until the compass reading is 0°.
2. Aim the boat due East and turn the "E/W" screw until the compass reading is 90°.
3. Aim the boat due South. If the compass does not show 180°, turn the "N/S" screw until the error is halved. (E.g. If the error is 6° - turn the screw until the error is 3°.)
4. Aim the boat due West. If the compass does not show 270°, turn the screw until the error is halved.
5. Go through the procedure again and check the adjusted values.
6. Check the compass every 20 degrees and produce a deviation table and deviation curve.

As the magnetic conditions in a boat are liable to change, we recommend checking of the compass once a year and always after installation of equipment which might affect the compass.

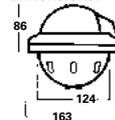
**NB! Do not regard the compass as an accurate navigational instrument until the compensation is carried out and the deviation table is produced. Whenever in doubt, please seek the advice of a compass adjuster!**

### MAINTENANCE

To clean the compass, use a mild soap solution or detergent. Do not use strong solvents, such as spirit, acetone or petroleum.  
The compass tolerates temperatures down to -30°C. It is advisable not to subject it to severe cold for long periods.

### TECHNICAL SPECIFICATIONS

**Type of compass:** Sailing / Power boat compass  
**Illumination:** Yes, 12V. Colour: red  
**Lubber lines:** Yes, centre and side view at 45° (back)  
**Gimballed cradle:** Yes  
**Accuracy:**  $\pm 0.5^\circ$   
**Apparent card diameter:** 125 mm.  
**Compensator:** Yes  
**Card type:** Flat  
**Card graduation:** Top: every 5°  
**Heeling angle:** Roll: 45° Pitch: 30°  
**Heeling angle scale:** No  
**Mounting:** Flush  
**Mounting angle:** -10° to +10°  
**Temp operating range:** -10°C to +70°C  
**TeStorage temperature:** -30°C to +70°C  
**Adjustable cover:** Yes  
**Material:** Acrylic/ABS  
**Weight:** 1500 g  
**Dimensions:**



### PROTECT THE ENVIRONMENT.

The Compasses should be recycled and must not be thrown in the regular trash. Dispose these items in accordance with applicable local regulations.

For more information please visit [www.silva.se](http://www.silva.se)



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for more information about the  
Waste Electrical and Electronic  
Equipment (WEEE) Directive.