



# FULL VERSION MANUAL

## COMPASS 58

Art.no (MN) 35730-0751 (MS) 35730-0755



### SILVA MARINE COMPASS 58

Thank you for choosing the SILVA Compass 58. This compass is suitable for small boats and recreational vehicles. It has a permanent and/or detachable bracket, mounts vertically, horizontally, upside down or anywhere in between. Maximum tilting angle is 200 in all directions. It's supplied with a front black main lubber line and comes with the feature of a direct reading scale.

Built-in adjustable compensation magnets for the B- and C- coefficients makes it easy to find the correct direction and a built-in red LED illumination for 12V enables night vision.

### PRODUCT OVERVIEW

The compass 58 consists of the following parts:

- Compass unit
- Batteries
- Mounting bracket
- Illumination
- Compensator adjuster

### BATTERY AND ILLUMINATION

The compass 58 comes with a built-in red illumination driven by a 12V battery.

### POSITIONING

For maximum accuracy and performance, select a location easily visible to the operator and with minimum magnetic interference.

**Important:** Before installing compass permanently, adjust in selected location to be sure it can be properly compensated. Electric motors, stereo speakers and windshield wiper motors often cause magnetic interferences. Deviation of up to +/-45° can be compensated for.

### MOUNTING

Compass should be level and aligned parallel with centerline of vehicle/boat. The compass should be mounted on a firm base (especially important for speedboats) to

Permanent mounting:

1. Loosen the bracket from the compass with the two shaft screws.
2. Mount the bracket on a suitable position with two non-magnetic brass screws.
3. Mount the compass on to the bracket with the two shaft screws and fix the compass in the correct reading position.

Detachable mounting:

1. use the fixing Plate and mount it in a suitable position with four non-magnetic brass screws.
2. Slide the compass on to the fixing plate.
3. Adjust and fix the compass in the correct reading position with the two shaft screws. To be able to use several mounting positions, extra fitting plates are available (art.no 35728-8 Blue, art.no 35728-1 White, art.no 35728-0 Black). Installation suggestion: For easy removal, use double faced tape or velcro.



### 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.

Compensation is made with the two compensation adjuster screws "E/W" and "N/S" in order to reduce the errors caused by iron objects or other sources of magnetic disturbance. The compensation adjuster screws are situated at the compass lower front edge.

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 -300C. It is advisable not to subject it to severe cold for long periods.

**NOTE!** Long term storage - take out the batteries.

### TECHNICAL SPECIFICATIONS

Type of compass: Power boat compass

Illumination: Yes, 12V. Colour: red

Lubber lines: 1, centre (front)

Gimbal cradle: No

Accuracy: ±1°

Apparent card diameter: 55mm

Compensator: Yes

Card type: Cone

Card graduation: Edge: every 10°

Heeling angle: Roll: 20° Pitch: 20°

Heeling angle scale: No

Mounting: Bracket

Mounting: Any angle

Temp operating range: -10°C to +70°C

Material: Acrylic/ABS

Weight: 205g

### PROTECT THE ENVIRONMENT.

Compass and batteries 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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