

COMPASS MANUAL

SPIKE JET COMPASSES

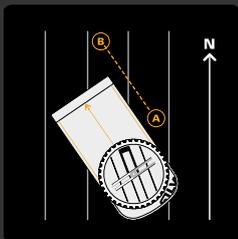
HOW TO NAVIGATE

ORIENTING THE MAP TO NORTH

The easiest way to use a map and compass together is to orient the map towards north. Simply align the map meridians with the compass needle so that "up" on the map is pointing north. Now everything on the map is in the same direction as on the ground. When travelling along your route, remember to keep the map oriented at all times. By doing this it will be very easy to follow your route since turning right on the map also means turning right on the ground! Properly orienting the map is quick, easy and the best way to avoid unnecessary mistakes during your trip!

EASY AS 1-2-3

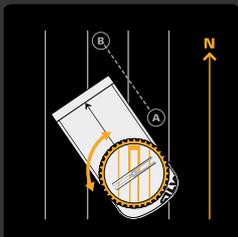
THE SILVA 1-2-3 SYSTEM



1-2-3

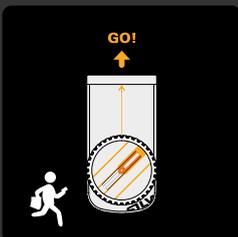
Place your compass on the map and use the **baseline** to make a straight line between your current position and your destination.

Make sure the **sighting line** points towards your destination.



1-2-3

Rotate the **housing** until the **orienting lines** are parallel with the **map meridians**.



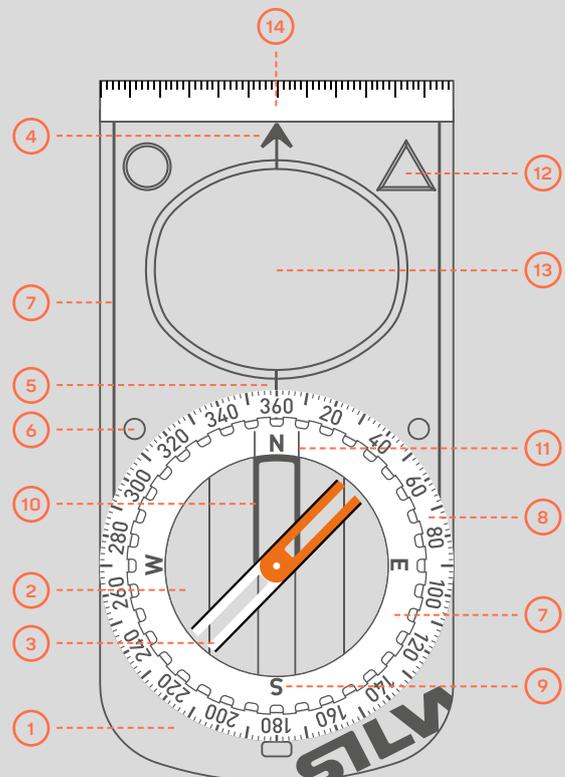
1-2-3

Lift your compass from the map and hold it horizontally in your hand. Turn yourself and the compass until the **needle** is aligned with the **orienting lines**. Now the **direction of travel arrow** will point towards your destination. Take a landmark and start moving. Enjoy!

BASIC COMPASS FEATURES

SPIKE JET COMPASSES

The high-performance Spike Jet baseplate compasses are perfect for the orienteer, adventure race athlete, and you who needs a fast, stable needle and clear map visibility for quick navigation while running, but still prefers the traditional feeling of a robust compass that is held in the hand.



* Features varies between different compass models

- | | | | |
|---|---|----|--------------------------------------|
| 1 | BASEPLATE | 8 | GRADUATION RING / GRADUATION SCALE * |
| 2 | LIQUID FILLED CAPSULE | 9 | CARDINAL POINTS * |
| 3 | COMPASS NEEDLE | 10 | ORIENTING LINES |
| 4 | SIGHTING LINE / DIRECTION OF TRAVEL ARROW | 11 | REFERENCE LINES * |
| 5 | INDEX LINE * | 12 | STENCIL HOLES * |
| 6 | RUBBER FRICTION FEET | 13 | MAGNIFYING LENS * |
| 7 | ROTATABLE HOUSING | 14 | SCALES / RULER * |

COMPASS MANUAL SPIKE JET COMPASSES

BASIC COMPASS FEATURES

SPIKE JET COMPASSES

1 BASEPLATE

Highly durable baseplate in acrylic plastic with lots of transparency to increase the map visibility. Use the edge of the baseplate to get your bearing. The curved up back end makes the compass fit better in your hand.

2 LIQUID FILLED CAPSULE

The capsule is filled with anti-static liquid (customized formula) that ensures clear reading, fast settling time, perfect dampening, stability and accuracy of the needle.

3 COMPASS NEEDLE

The magnetic needle features a combination of a sapphire jewel bearing and a hardened steel pivot that minimises friction, which in turn gives rapid and accurate movements. Magnetic north direction accuracy: 1 degree. The orange end points to magnetic north!

JET 2.0 needle: provides world class performance in needle speed and settling time and it offers outstanding reliability and stability.



4 SIGHTING LINE / DIRECTION OF TRAVEL ARROW

The direction of travel arrow shows the direction that you want to travel along or the bearing you are taking. It is fixed parallel to the sides of the baseplate and aligned with the fixed index line on the edge of the compass housing.

5 INDEX LINE

The index line is fixed at the outer edge of the graduation scale as an extension of the direction of travel arrow. It marks the bearing you set by rotating the housing.

6 RUBBER FRICTION FEET

Silicone rubber friction feet for precision map work. Placed at the bottom side of the baseplate.

7 ROTATABLE HOUSING (BEZEL)

Use the rotatable housing by rotating the grip ring when navigating with the Silva 1-2-3 system. The unique feature of a rotatable housing on a race compass gives you the opportunity to use a fast race compass even if you are used to navigating with a traditional baseplate.

8 GRADUATION RING / GRADUATION SCALE

The angle between true North and the direction of travel is called bearing (the direction from where you are, to where you want to go). The value of this angle can be read directly off the scale on the graduation ring. The graduation scale is divided into 360 degrees.

If you rotate the graduation ring to line-up the orange north of the compass needle to the orienting lines, a bearing can be taken from the graduation scale at the index line.

9 CARDINAL POINTS

The housing is marked with cardinal points (N-S-E-W) - representing North, South, East and West.

10 ORIENTING LINES

The Spike Jet compasses have lines/markings on the capsule bottom to ensure easy settling. The lines are fixed within the housing, rotates along with the grip ring and are designed to be aligned with the map meridians. The lines are used to align the housing with the map in step 2, when navigating with the Silva 1-2-3 system.

11 REFERENCE LINES

The reference lines are fixed at the top of the housing as an extension of the orienting lines.

12 STENCIL HOLES

The baseplate has two stencil holes for adding map symbols (start/control) or marking positions on map with pen/pencil - increasing precision.

13 MAGNIFYING LENS

Built in magnifier for detailed map reading.

14 SCALES / RULER

On the tip of the baseplate you'll find scales for measuring distances etc. on a map.

The Spike Jet Classic and Spike Jet Zoom are equipped with several map measuring scales while the Spike Jet has a metric ruler at the tip of the baseplate.

● MAP SCALES

A map is a reduced picture of the terrain. The determined proportion between the distances on the map and the corresponding distance on the ground is called a map scale. To obtain the corresponding distance in the field, the distance on the map must be multiplied by the divider of the scale. For example, the scale 1:10 000 means that 1 cm on the map corresponds to 10 000 cm = 100 m in the terrain.

● MAP MEASURING SCALES (Spike Jet Classic / Spike Jet Zoom)

The Spike Jet Classic and Spike Jet Zoom are equipped with several map measuring scales.

With a map measuring scale you can use the scale that corresponds directly to your map and read the distance without the need of any further calculations.

The scale sliders (included with the Spike Jet Classic / Spike Jet Zoom) are detachable and exchangeable so you can alternate them depending on which map scale you are using. The scale sliders are easily slid on to the tip of the baseplate.

There are 3 different scale sliders that can also be flipped - providing a total of six different scales: 1:40 k, 1:7.5 k, 1:10 k, 1:15 k, 1:3 k, 1:4 k



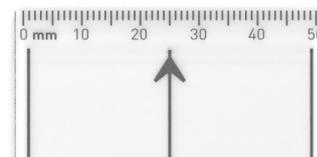
● RULER (Spike Jet)

Spike Jet has a metric ruler at the tip of the baseplate.

If the map scale is 1:10 000, and your compass has the corresponding map measuring scale, use this to measure distance.

If your compass lacks the corresponding map measuring scale, use the regular Metric ruler found on the edge of the baseplate.

Example: If the map scale is 1:10 000, then 1 cm on the map = 100 m in the terrain.

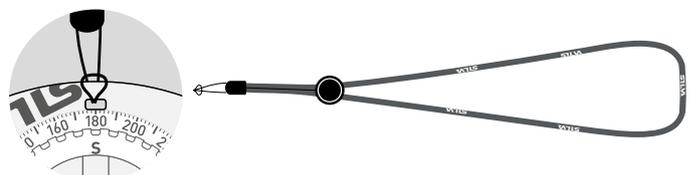


COMPASS ACCESSORIES FEATURES

SPIKE JET COMPASSES

● WRIST STRAP

The wrist strap is adjustable to make it fit perfectly on your wrist and minimizes the risk of dropping or damaging the compass.





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MORE INFORMATION

CAN I USE MY COMPASS IN ANY PART OF THE WORLD?

Most Silva compasses are balanced for one of three magnetic zones. Using your compass in the "wrong" zone will cause the needle to tilt and may result in it getting stuck against the roof/floor of the capsule and showing an incorrect north.

Silva compasses are balanced in three different zones:

MN (Magnetic North), ME (Magnetic Equator), MS (Magnetic South).

Make sure to buy a compass for the magnetic zone you will navigate in.



TAKE CARE OF YOUR COMPASS

A Silva compass will, if treated carefully, be a navigation partner for many, many years. Always check that your compass is functioning properly before heading out.

- Never expose your compass to extreme temperatures (above 60°C or below -20°C) – this can deform the plastics with a leaking compass capsule as a result.
- Avoid dropping the compasses on hard surfaces and handle it with care.
- Don't store or place the compass close to strong magnetic fields such as knives, mobile phones, radio speakers, magnets etc. This can cause reversed polarity of the compass needle which will result in it pointing south instead of north.

WARRANTY

Silva warrants that, for a period of five (5) years, your Silva product will be substantially free of defects in materials and workmanship under normal use. Silvas liability under this warranty is limited to repairing or replacing the product. This limited warranty extends only to the original purchaser. If the product proves defective during the warranty period please contact the original place of purchase. Make sure to have your proof of purchase on hand when returning the product. Returns cannot be processed without the original proof of purchase. This warranty does not apply if the product has been altered, not been installed, operated, repaired, or maintained in accordance with instructions supplied by Silva, or has been subjected to abnormal physical or electrical stress, misuse, negligence or accident. Neither does the warranty cover normal wear and tear. Silva is not responsible for any consequences, direct or indirect, or damage resultant from use of this product. In no event will Silvas liability exceed the amount paid by you for the product. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty is valid and may be processed only in the country of purchase.