

## Compass Calibration

The compass supplied with your Bosun autopilot has been calibrated during manufacture. This calibration will be satisfactory for almost all installations. If you have a steel vessel, or some other factor which causes the compass to perform poorly, the calibration procedure will adjust compass characteristics to compensate. The calibration should only be done if the compass is **known** to be inaccurate.

If the Bosun compass displays a **constant offset** (eg the autopilot compass reads 3 degrees high **on all bearings**), simply rotate the Bosun compass case to align bearings with the ships compass .. **it is not necessary** to re-calibrate the compass as described below.

If the Bosun compass has inconsistent variation on different headings, the following calibration procedure can be carried out. This procedure should only be done in calm waters with adequate sea room.

1. Enter "901" by using keypad, then hold down **GOTO**, press **AUTO**, then release both buttons together.
2. Turn vessel slowly through two complete circles in same direction. Each complete turn should take at least 60 seconds.
3. When the circles are complete, enter "902" by using the keypad, then hold down **GOTO**, press **AUTO**, then release both buttons together.

This completes the compass calibration. Check alignment of the Bosun compass by steering vessel due North (000 on ships compass) and, if necessary, rotate outer case of the Bosun compass in its bracket until the heading display reads 000.

Note: The effectiveness of the calibration is dependent upon all 3 steps being completed. Should you wish to abort the calibration procedure at any time during the circle turning, do not carry out step 3.

It is important to realise that on any vessel the ships compass can have heading errors as a result of the vessels magnetic signature. These errors can be minimised by having the ships compass swung and compensated by a licensed compass adjuster. In any case it is highly unlikely that the ships compass and autopilot compass will be congruent for every heading.

If you are unsure of the success of the calibration, you may return to the factory calibration setting by entering "903", hold down **GOTO**, press **AUTO**, then release both buttons together.