

Compass Calibration

The compass supplied with your AP4 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 AP4 compass displays a **constant offset** (eg the autopilot compass reads 3 degrees high **on all bearings**), simply rotate the AP4 compass case to align bearings with the ships compass .. **it is not necessary** to re-calibrate the compass as described below.

If the AP4 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. In **SET** mode, hold down **GPS** button and press **TIMER** button. The value "**900**" will appear on the display. Release buttons, rotate course knob until display reads "**901**". Press the **TIMER** button. The display will return to normal.
2. Turn vessel slowly through two complete circles in same direction.
3. In **SET** mode, hold down **GPS** button and press **TIMER** button. Release buttons and rotate course knob until display reads "**902**". Press **TIMER** button. (Note: If autopilot beeps 3 times calibration was invalid and not used. The calibration will return to the factory setting. Repeat steps 1,2 and 3.)

This completes the compass calibration. Check alignment of the AP4 compass by steering vessel due North (000 on ships compass) and, if necessary, rotate outer case of AP4 compass in its bracket until 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.