frequently asked questions

h2000 ACP Programming Procedure

This document describes the procedure to update the software in the following products:

BGH171001 Hydra/Hercules ACP1 Pilot Processor
BGH171002 Hydra/Hercules ACP2 Pilot Processor

Important: during the course of this software upgrade, it will be necessary to reset the autopilot computer. It is strongly recommended that the existing calibration settings are recorded in the table below to facilitate the re-commissioning process.

Original Autopilot Settings

	Typical Setting	Your Setting	Description
B TYPE	**SAIL**		Boat Type: Sail, Power Planing, Power Displacement
H SRC	**15** (Gyro Processor)		Heading Source, compass data selection
H OFF	Varies according to installation of sensor		Heading Offset, compass alignment correction
DIP	**0** (leave at zero)		Magnetic DIP Angle compensation
DRIVE	**A** (rams and pumps)		Rudder drive type selection
S CAL	Varies according to installation of sensor		Speed sensor calibration
B LEN	Varies according to yacht		Boat waterline length in metres
B LAG	**0.3**		Boat Lag value
R GAN	Varies according to yacht		Rudder Gain value

Procedure
Upgrading Autopilot Computer Software

1) Switch off the power to the autopilot electronics.
2) Open up the ACP to reveal the main board PCB.

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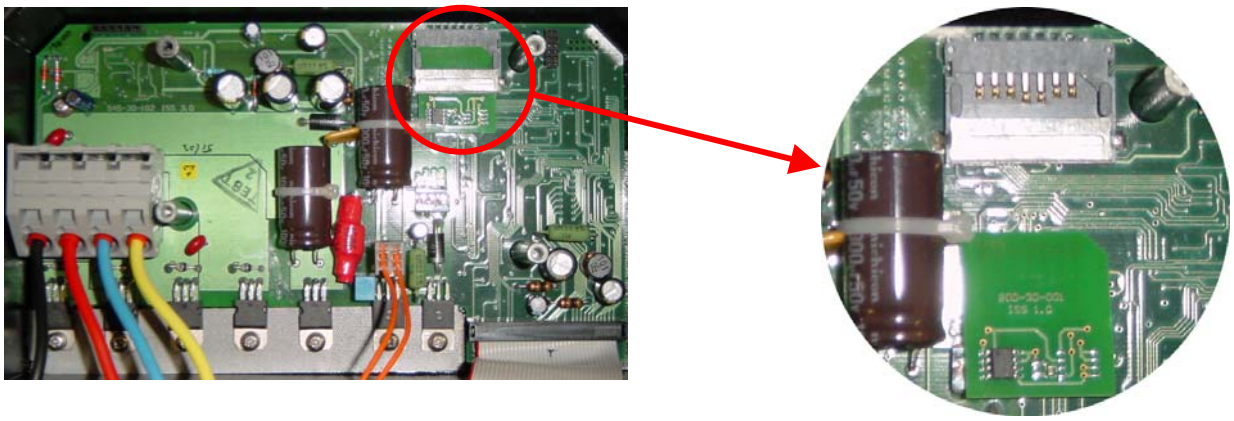
3) Locate the small Memory Card located in the SD cartridge slot and carefully remove from its holder.



4) Insert the autopilot programming cartridge, being careful to observe the correct orientation.

5) Switch on the power to the autopilot electronics and observe the Pilot FFD. During the programming phase, the Pilot FFD will display "NO PILOT", typically 40 seconds. Upon completion of the programming phase, the Pilot FFD will then resume showing the normal pilot menus. It is also likely that it will display "FAULT 114" - Autopilot Memory, as the settings will have changed.
6) Switch off the power to the system.
7) Remove the Programming Cartridge and replace the original Memory Card.
8) Switch on the Power to the system

Resetting Autopiliot Computer Memory

Access the Diagnostic Facility

The diagnostic feature is accessed as follows:

1. When switching on the system, press and hold the ENTER key on any indtrument FFD (not Pilot FFD) until DIAGNOST appears on the upper text.
2. Press the ENTER key and the first test option, KEYTEST, will be displayed.
3. Repeatedly press the SCROLL DOWN key until RES SYS is shown.
4. Press the ENTER key once to select the Reset function. (the number 00 will be diaplayed)
5. With RES SYS shown on the display, use the SCROLL UP key to change the number to 12.
6. Press the ENTER twice key to activate the reset function.

At this stage, the Pilot FFD may show FAULT 100 on the screen. This is normal and indicates that the pilot computer memory has been reset.

7. Switch the power off to the system for a period of 10 seconds and then switch it back on again.

9) Referring to the Autopilot User Manual, fully recommission the autopilot at the dockside and re-enter the calibration values previously recorded.
10) Sea-trial the autopilot.

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