Navpilot Software Update Procedures

Important Note: Updating software requires following specific guidelines or update will fail and the system may be unusable

Notes:

- 1) Confirm that dockside, seatrail, menu and compass settings are correct and not causing a failure before updating software.
- 2) New software will not correct improper setup or menu selections and may retain any incorrect data (See:Software Notes:)
- 3) Verify and note current software levels using the "Start-up" screen or press [MENU], select "TEST" and choose from list.
- 4) An authorized Furuno agent should assess the Navpilot to determine and complete an update of software as required.

Connections: Confirm that the computer has a 9-pin serial port or a fully functional USB to serial (9-pin) converter

Navpilot processor TB4 port (RS232) PC (computer)DB9 (9-pin connector) Serial (COM1)

PIN 1 (TX) **←** → PIN 2 (RX)

PIN 2 (RX) < → PIN 3 (TX) PIN 3 (GND) ← → PIN 5 (GND)

Jumper pins 7 and 8 together on 9pin connector.

Software versions: ("x" denotes numerical revision)

Navpilot 500 Control: 6454002-02.0x Navpilot 511 Control: 6454001-02.0x Navpilot Processor: 6454001-02.0x PG500/C500: 6454101-01.1x

Software Notes:

Version 3 (x=3) and PG500 ver.11 or higher retain <u>all</u> setups (no dockside, seatrail or menu settings required)

Confirm proper operations for version 3 or higher after upgrade to ensure all retained settings are correct

Otherwise master reset the system and accomplish all dockside, seatrial, menu setups and confirm proper operations

Preliminary Checklist and Notes:

- 1) Power Navpilot system "OFF"
- 2) Temporarily disconnect or power "OFF" all NMEA inputs and outputs connected to the processor ports.
- 3) Navpilot 500 and 511 type control heads must be upgraded seperately.
- 4) Connect only one type of control head(s) to the processor for initial software loading. <u>Install terminator</u> on last control in line.
- 5) Failure to seperate the two types of control heads will allow incorrect software to load and render them unusable.
- 6) Ensure cable is connected properly between TB4 of the Navpilot processor and the PC's serial 9-pin (DB9) port.

Update CD and file instructions:

- 1) Create a directory named "NavpilotSoftware" on the computers hard drive; copy all Navpilot software files to this location.
- 2) If files are compressed (.zip extension), open each "zip" file, and extract it to the "NavpilotSoftware" directory.
- 3) Each "zip" file will create its own sub-directory to store its extracted files into.

Important Note: Navpilot display will remain blank during upgrades

Processor update instructions: (Do not press any buttons during update procedure)

- 1) Open the "NavpilotSoftware" directory, then sub-directory with the processor software and locate the file named "UP.bat".
- 2) Double click or right click and open the "UP.dat" file, a "DOS" window will appear with the prompt "TARGET POWER ON."
- 3) Power "ON" the Navpilot system from any connected control head (See: Preliminary Checklist and Notes steps 3-5) for notes.
- 4) The computer will display "Now Erasing" followed by a numerical percentage (%) denoting software loading progress.
- 5) "Finish Version Up" will display when the update is complete.
- 6) Power "OFF" the Navpilot system, then power "ON" to complete the procedure.
- 7) NOTE: "NG" may appear when restarting Navpilot

PG500 / C500 update instructions: (Do not press any buttons during update procedure)

- 1) Open the sub-directory with the PG500 software and locate the file named "UP.bat".
- 2) Follow Processor update instructions; steps 2-7 above.

Control Head update instructions: (Do not press any buttons during update procedure)

- 1) Open the sub-directory with the aprropriate control head software (either 500 or 511) and locate the file named "UP.bat".
- 2) Ensure that only the appropriate type of control head(s) are connected for the selected sofware update
- 3) Follow Processor update instructions; steps 2-7 above.
 - a) Note that each control head takes about 8 minutes to load, i.e two (2) would take a total of 16 minutes to complete.
 - b) If three (3) or more are connected, power the Navpilot "OFF", then "ON" to continue updating remaining displays.