Calibration and settings Volvo Penta IPS Quad

1. Calibration mode

   Preparations
   - Turn main switches on.
   - Turn starter keys to position 1 (ignition on).

   Enter calibration mode

   Procedure is the same for all engines.
   - Push and hold SELECT WHEEL and BACK BUTTON until all neutral LEDs and display select LEDs start to flash.
   - Release buttons.

   Calibration mode is indicated in the pop-up screen on the display and neutral and display selection LEDs.

   Note: When entering calibration mode in an EVC-C system with a lever buttons-disabled display, the Calibration mode is activated by selecting the incorrect DATABASE - will be shown on the display.

   Note: The first digit varies depending on system configuration - it indicates a single lever control.

   Note: The system exits from calibration mode after 45 seconds.

2. Auto configuration

   Auto configuration is part of the EVC system self-identification. Auto configuration should be performed when the system is started for the first time or after system updates.

   Note: A quad installation requires only one auto configuration for all engines.

3. Select language and units

   1. Activate helm station by pushing the ACTIVATION BUTTON.
   2. Push BACK BUTTON. Select and enter SETTINGS from FAULT AND SETTINGS MENU.
   3. Select and enter SEL LANGUAGE.
   4. Select and confirm the appropriate language.

4. Lever calibration

   Electronic lever control

   Note: The following description applies to Volvo Penta's electronic lever control. It indicates a single lever control.

   Note: If the controls for all engines are calibrated, both levers must be placed in the neutral position at the same time, to give the same lever travel to all engines.

   Procedure:
   1. Enter calibration mode for both port side engines and starboard side engines.
   2. If no action is performed, a beep signal confirms the storing of position.

5. OEM-mode

   Enter OEM-mode
   1. Push and hold MULTIFUNCTION BUTTON for at least 5 seconds.
   2. The display selection LEDs (red/green) start to flash and pop-up screen "OEM MODE ACTIVATED" is shown on the display for approx. 5 seconds.

6. Settings

   Fuel tank settings

   Note: The following description applies to Volvo Penta's electronic lever control. It indicates a single lever control.

   Procedure:
   1. Enter OEM-mode by pushing the ACTIVATION BUTTON.
   2. Press BACK BUTTON. Select and enter SETTINGS and select OEM MODE from SETTINGS.
   3. Select and enter FUEL TANK SET EMPTY.
   4. Confirm empty tank in the PUSH WHEN EMPTY window by pushing the SELECT WHEEL.
   5. Set the fuel tank volume by turning the SELECTION WHEEL.
   6. Select and enter FUEL ALARM SET LEVEL.
   7. Confirm fuel in the NAUTIC MILES.
   8. Confirm the position by pushing the DODGING BUTTON (A). A beep signal confirms the storing of position.
   9. If the joystick remains in the position, the display is shown for approx. 5 seconds.

7. Calibration of Volvo Penta IPS propulsion unit positions

   EVC system display

   IMPORTANT: All displays must be configured as "QUAD PORT" or "QUAD STAR" before auto configuration is performed. Please refer to installation instructions concerning EVC system display.

   Procedure:
   1. Turn starter keys to position 1 (ignition on).
   2. Enter auto configuration mode.
   3. Push and hold BACK BUTTON and MULTIFUNCTION BUTTON until all LEDs are lit and a signal from buzzer heard.
   4. Release buttons.
   5. Self-identification and software download starts.
   6. The procedure may take several minutes depending on software download to the display.
   7. Wait until neutral LEDs light up and MONITORING MENU appears.

   IMPORTANT: All displays must be configured as "QUAD PORT" or "QUAD STAR" before auto configuration is performed. Please refer to installation instructions concerning EVC system display.

   Procedure:
   1. Turn starter keys to position 1 (ignition on).
   2. Enter auto configuration mode.
   3. Push and hold BACK BUTTON and MULTIFUNCTION BUTTON until all LEDs are lit and a signal from buzzer heard.
   4. Release buttons.
   5. Self-identification and software download starts.
   6. The procedure may take several minutes depending on software download to the display.
   7. Wait until neutral LEDs light up and MONITORING MENU appears.

   IMPORTANT: All displays must be configured as "QUAD PORT" or "QUAD STAR" before auto configuration is performed. Please refer to installation instructions concerning EVC system display.

   Procedure:
   1. Move the levers to the forward position (A).
   2. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   3. If shown on the display.
   4. Move the levers to the full throttle position (B).
   5. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   6. If shown on the display.
   7. Move the levers to the neutral position (C).
   8. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   9. If shown on the display.
   10. Move the control levers to neutral position (D).
   11. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   12. If shown on the display.
   13. Move the control levers to neutral position (E).
   14. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   15. If shown on the display.
   16. Move the control levers to neutral position (F).
   17. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   18. If shown on the display.
   19. Move the control levers to neutral position (G).
   20. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   21. If shown on the display.
   22. Move the control levers to neutral position (H).
   23. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   24. If shown on the display.
   25. Move the control levers to neutral position (I).
   26. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   27. If shown on the display.
   28. Move the control levers to neutral position (J).
   29. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   30. If shown on the display.
   31. Move the control levers to neutral position (K).
   32. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   33. If shown on the display.
   34. Move the control levers to neutral position (L).
   35. Release the levers and confirm the position by pushing the SELECT WHEEL on both EVC control panels.
   36. If shown on the display.

   Note: The system is in calibration mode.

   Note: Move the joystick to arbitrary one of the end positions.

   Note: The system is in calibration mode.

   Note: Let the boat move for a quite a long distance during the calibration routines. Hold the joystick in position.