

Changes For HBLT Version 2.54

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This version makes the following changes:

1. Added a feature that flashes an alert panel every two seconds when a test is running. This prevents the alert message from covering the test results making them unreadable. This occurs for the safety cover message, the exhaust limit switch message, and the intake limit switch message.
2. Changed the Print Calibration Report function to Display Calibration Report. Pressing the button now opens the Display Calibration Report screen and displays the calibration offset, scale, and date. In addition, there is a Print calibration report button. Pressing this button prints the original report to the printer.
3. Added an HBLT initialization feature to the Engineering Menu. This feature allows the customer to initialize the HBLT to factory settings in the event the engineering password is unavailable. This function is password protected preventing just anyone from initializing the HBLT. After entering the password, the operator has the choice of initializing the HBLT or printing the engineering settings, the calibration options settings, and all tests before initialization. Finally, there is a 30 second display that allows time for the operator to cancel the initialization. Initialization forces a new calibration.
4. Changed the calibration from having many possible scale set points to just having a single adjustment at the maximum pressure. The set point arrows are replaced with a single pressurize button. After reaching maximum pressure, the HBLT removes the Pressurize button and displays the large OK button. If the engineering jumper is on, the HBLT displays a Quick Cal button permitting manufacturing to set the initial calibration settings that allows the purge function to fill the HBLT hydraulic circuit. Also, the engineering jumper allows an initial calibration at 80% of full range to adjust the calibration to prevent the maximum pressure overshoot which would abort the calibration. The Pressurize button remains on the screen until pressed a second time which then takes the pressure to the maximum pressure.

Changes in the *HBLT* application from version 2.52 to version 2.54

5. Added the print all HBLT settings and tests to the Engineering Menu. Customers can now backup all HBLT engineering settings, calibration settings, and tests at one time to the printer.
6. In-house only. Corrected missing else in do_PCpsi_action(), do_PCKpa_action(), and do_PCatm_action() functions in PCOMMAND.C. These functions would continue starting a script even if the calibration was NAKed. Not reported. Found while doing a code inspection.
7. Add alerts to the calibration and the pressurize functions to allow greater information when the calibration pressurize function fails.
8. Corrected a software defect that prevented the Displace command from working during a vacuum condition.
9. Changed the calibration functions to intercept the over pressure error condition and do the following:
 - a. Stop the motor.
 - b. Initialize the offset and scale factors to factory defaults.
 - c. Display an alert message informing the operator of the message and directing the operator to release the pressure (remove the gauge).
 - d. Setup to return to the calibration start screen to restart the calibration process.
10. Changed the Test Run: 0 line on the test report to start at 1 instead of zero.
11. Corrected the formatting on the printed calibration report to align the HBLT name line with the other text.
12. Changed the printed calibration report, to show the LH and XV model types instead of just the pressure model.
13. Corrected the End at: date line on the test report to display the correct date when there is no Smart Manifold attached and the test ends without event or error.
14. Corrected the Manifold Purge Rate formatting to allow for the longer entry when using the LH HBLT model with a Smart Manifold.
15. Corrected the purge timeout to account for LH model increased volume.
16. Corrected two internal software defects.