

Customer Changes in *HBLT* application from version 2.11 to version 2.20

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This version makes the following changes:

1. Moved the Smart Manifold hunt parameters and the Smart Manifold mode (Single, Sequential and parallel) from the engineering configuration menu to the test definition menu. This allows each test to define the Smart Manifold settings.
2. Added the two adaptive compliance settings to the test definition menus. The first setting is the multiple compliance value. This value is the compliance for the maximum ports for this test. The second value is the number of ports the compliance represent. As an example:
For a particular product and test:
The single port compliance might be 2.
The multiple port compliance might be 5.
The Smart Manifold count might be 5.
These setting interpolate the compliance for active ports of 2, 3, and 4. For a single port, the HBLT uses the single port compliance. For 5 ports and greater, the HBLT uses the multiple compliance.
3. Added the new test type of Group test. This allows the definition of a single test that contains up to ten other tests. All tests in a group must have the same pressure units. In addition, if used with a Smart Manifold, all the tests must have the same Smart Manifold Mode (Single, Sequential, or Parallel).
4. Added the engineering option Force group start to cause a group test to stop and wait before the start of each test in the group.
5. Added the engineering option Skip test start screens to cause the HBLT to skip Operator, Lot code, and the Information screens. When selecting the Run a test option on the Main Menu, the HBLT goes straight to the select screen. After selecting a test, the HBLT begins the test immediately.
6. Added the engineering option to defined the HBLT name. If defined the HBLT displays this name under the CDI logo on the first screen. This allows the user to identify the particular for calibration, diagnostics, etc.
7. Added a column for the cycles on the Smart Manifold results screen. The addition cycles done during a port hunt for leaks is added to these values.
8. Added leak detection to the Smart Manifold port hunt operation. This method uses the last cycle to "look" for the leak. The HBLT uses this hunt mode when checking for leak rate events or leak dip events. The HBLT uses the original hunt procedure for up bursts and down bursts. If the port is found not to be open, the HBLT adds another cycle to that port.
9. Corrected the limit switch error handling during the Smart Manifold port hunt. If the piston triggers the exhaust limit switch, the HBLT treats the port as open instead of an error.
10. Changed the Smart Manifold feature that forced a single port only when the Smart Manifold mode was single. Now, the HBLT allows any port selection. However, when running the a port with the Smart Manifold mode set to single and more than one port selected, the HBLT disables all ports and reports the same message for no ports selected.
11. Changed reporting of some alarm messages to report the message to Pressure Manager instead of posting the message to the HBLT LCD screen and waiting for a response.
12. Changed all leak dip minimums from 3 to 1.
13. Changed formatting on Smart Manifold results screen and added a print button to print the summary of results.