

LifeJacket Test Procedure

This guide is to provide a quick reference to testing the *Lifejacket*. For further explanation of product operation, please refer to the Installation Instructions. This guide is meant to provide a simple testing procedure for Annual Inspection and Installation. If at any time the *LifeJacket* does not stop the elevator in less than 2" of slide, one shim per side must be added to bring the operation into specification. Refer to Section 5.4 of the Installation Instructions for shimming instructions.

Only Authorized Elevator personnel may perform these tests.

Tests with the LAD and Without the LAD

Test 1 - Set the LifeJacket with battery power

With LAD

- a) Run the elevator down from the 2nd floor. On the **LAD** (Press and hold the <shift> button then press F3) or (Press and hold the <enable> button then press Set Valve 1) to energize set valve.

Without LAD

- 1) Run the elevator down from the 2nd floor. Temporarily jump minus lead of the Battery (**Bat-**) to the minus lead of the Brake Set Valve Coil 1 (**Set 1-**) on PC Board.
- b) *LifeJacket* will set with 2" or less of slide.
- c) **There will be no PC Board indication** as it was not a computer-generated set. Reset by running elevator up to second floor. Verify that the Safety Circuit was interrupted. Make sure the temporary jumper is removed if LAD in not used (see (1) above). To run the elevator up, it will be necessary to press the Safety Switch cutout to reclose the Safety Circuit until the *LifeJacket* arms fully open. **This must be done for every test!**

Test 2 - Set the LifeJacket with the High Speed Test

With LAD

- a) Run the elevator down from the 2nd floor. On the **LAD** Press '<shift> F2' or '<enable> High Speed Test' to enable the test.

Without LAD

- 1) Run the elevator down from the 2nd floor. Then on the PC board you will need to shunt, for at least 2 seconds, position #7 of the header jumper J9. You can use the jumper that is on position #1 which is the direction reversal shunt on J9. This also enables the High Speed Test. Replace the shunt(s) as you found them. Refer to the inside cover of controller if needed.
- b) *LifeJacket* will set after attaining at least 50% of the Overspeed setting of the DIP switch. The speed displayed may show the car traveled faster than the trip speed. This is normal.
- c) The **Overspeed LED** will light and the board will beep. Press the **Restart** switch on the PC Board in the controller to reset. Run the elevator up.

Test 3 - Set the LifeJacket with a Direction Error

- a) Remove the direction coil connectors (J1 & J5) from the PC Board. Run the elevator down from the top floor. Car speed must exceed 30 fpm for at least 4 seconds.
- b) *LifeJacket* will set after exceeding 4 seconds of encoder output without a direction indication.
- c) The **Direction Error LED** will light and the board will beep. Replace the direction coil connectors (J1 & J5). Press the **Restart** switch on the PC Board in the controller to reset. Run the elevator up.

Test 4 - Set the LifeJacket with an Encoder Error

- a) Remove the encoder connector (J4) from the PC Board. Run the elevator down from the top floor. Car speed must exceed 30 fpm for at least 4 seconds.
- b) *LifeJacket* will set after exceeding 4 seconds of down direction indication without an encoder output. (It will not set in the up direction but will give an error.)
- c) The **Encoder Error LED** will light and the board will beep. Replace the encoder connector (J4). Press the **Restart** switch on the PC Board in the controller to reset. Run the elevator up.

Test 5 - Battery Presence test

- a) Remove the battery connector (J7) from the PC Board.
- b) After about 15 seconds, the **Battery LED** will light and the board will beep.
- c) Replace battery connector (J7). Press the **Restart** switch on the PC Board in the controller to reset. Run the elevator up.

Test 6 - Fuse and Valve Presence test

- a) Remove the set valve connector (J11) from the PC Board.
- b) After about 15 seconds, the **Fuse LED** will light and the board will beep.
- c) Replace set valve connector (J11). Press the **Restart** switch on the PC Board in the controller to reset. Run the elevator up.

After All of the Testing is complete, press SW2 on controller PC Board to reset system.