

Lester Control Systems Ltd



Unit D, 18 Imperial Way, Croydon, Surrey, CR0 4RR.

Tel: **020 8288 0668**

Fax: 020 8288 0667

Email: info@lestercontrols.co.uk

www.lestercontrols.co.uk

ALMEGA 2 Brake Test Operation Quick Guide

ISSUE: 3 Date: 03/02/2022

Prerequisites:

1. Brake Test Switch, and Brake Test Circuit Installed
2. Brake Coils are wired correctly and configured for **SERIES** or **PARALLEL** operation!
3. Almega 2 Software Version V4.10 or above is installed.
4. Brake Test parameters are Setup and Enabled (as below)
5. Check Brake Monitoring inputs are configured and working (inputs on when stationary).
6. Check the “Lift Car” load is set as per the Lift Standards Test Sheet (e.g, 125%).

STEP 1: PARAMETER SETUP

Several Brake Control parameters can be found in Travel Controls and Travel Times (as below):

Travel Control Parameters:

Parameter	Minimum	Maximum	Default	Setup as:
BRAKE TEST CONTROL	NO	SEMI_AUTO	NO	SEMI_AUTO
BRAKE TEST FLOOR	Bottom Floor	Top Floor	1	Lowest Floor Accessible e.g. floor 1
BRAKE TEST LATCH	NO	YES	NO	NO

Travel Time Parameters:

Parameter	Minimum	Maximum	Default	Setup as:
BRAKE TEST STR PAUSE TIME	1s	10s	3s	3s
BRAKE TEST CRASHSTOP TIME	1s	30s	5s	5s

IO Parameters:

Check an input is configured for Brake Test (i.e. input 101).

Input is ON when switch not operated, input is OFF when switch operated.

STEP 2: SWITCH TO “PREPARE TO TEST” CONTROL

1. Press MENU
2. then ENGINEER’S SELECTION
3. then select PREPARE TO TEST
4. select DOORS OFF
5. Press OK to confirm.

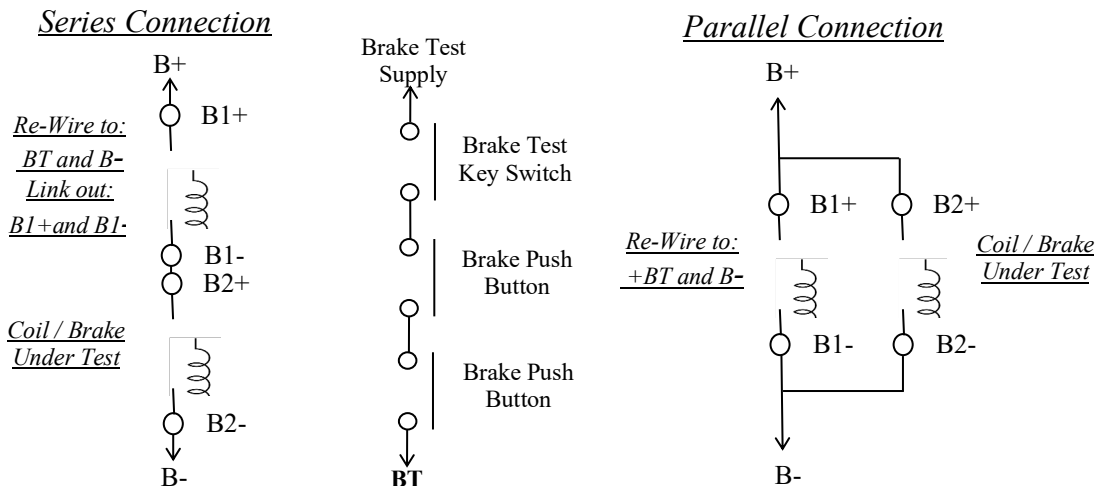
STEP 3: TURN OFF BRAKE MONITORING IN THE VF DRIVE (if applicable)

1. e.g. Ziehl Abegg Z4
2. Select MONITORING MENU
3. SELECT BR; and select option OFF
4. Press Enter / Carriage Return to confirm

STEP 4: TAKE THE LIFT TO THE HIGHEST FLOOR AVAILABLE (e.g. top floor)

1. Press MENU
2. then LIFT / GROUP VIEWER
3. then press the TOP button
4. a car call will be entered to the top floor
5. wait for the lift to reach the top floor.

STEP 5: TEST BRAKE / COIL 2 (i.e. keep the power on Brake Coil 1 whilst testing Brake / Coil 2)



1. Switch the lift power off, and remove the wiring to Brake Coil 1 (**B1+** and **B1-**)
 - a. Note if series wired brake coils, replace the brake coil with a LINK wire.
2. Then re-connect as below:
 - a. + to **BT**, and – to **B-** Switch the lift power back on.
3. The lift is now ready for the Brake Test (Coil 2)
 - a. Press the Brake Test Push and **Hold!**
 - b. Twist the Brake Test Key Switch Clockwise (as Fig3 below) and **Hold!**
 - c. The Almega 2 display will show the screen as (Fig 1) below:
 - d. After 3 seconds a car call will automatically be placed to the Brake Test Floor.
 - e. The lift will accelerate up to high speed and then crash stop itself (keep the Brake Test Key Switch Held, see Fig 2)
 - f. The lift brake will drop and **coil 2** will de-energise, **coil 1** will stay energised.
 - g. The lift will decelerate using the friction of the brake associated with **Brake Coil 2 only**.
 - h. Switch the lift power off, and remove the wiring to Brake Coil 1 (+ and -)
4. Then re-connect back to normal as below:
 - a. Remove any links first.
 - b. + to **B1+**, and – to **B1-**
 - c. Switch the lift power back on.

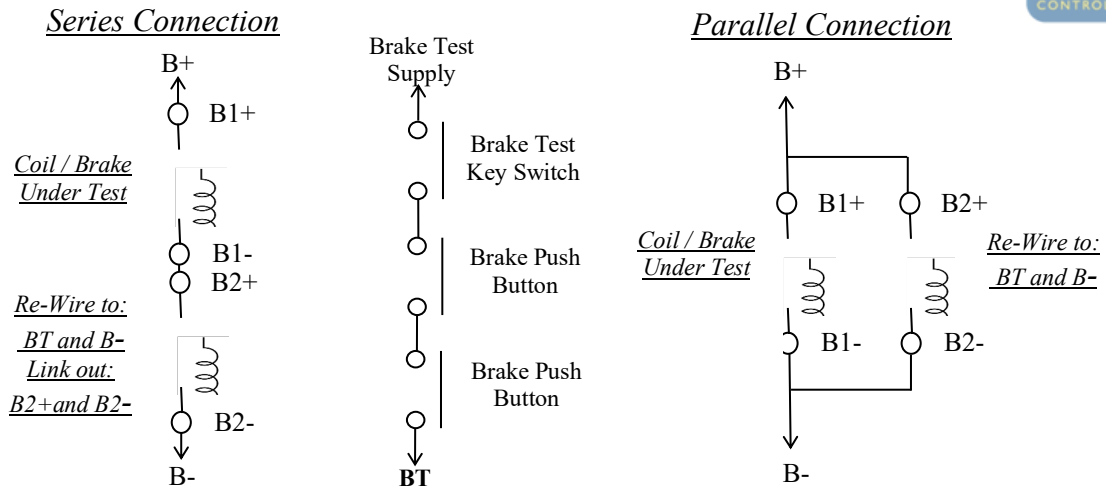
STEP 6: RESET THE BRAKE TEST LATCH.

1. Press MENU
2. then ENGINEER'S SELECTION
3. then select BRAKE TEST LATCH
4. select NO
5. Press OK to confirm.

STEP 7: TAKE THE LIFT TO THE HIGHEST FLOOR AVAILABLE (e.g. top floor)

1. i.e. Repeat STEP 4.

STEP 8: TEST BRAKE / COIL 1 (i.e. keep the power on Brake Coil 2 whilst testing Brake / Coil 1)



1. Switch the lift power off, and remove the wiring to Brake Coil 2 (**B2+** and **B2-**)
 - a. Note if series wired brake coils, replace the brake coil with a LINK wire.
2. Then re-connect as below:
 - a. + to **BT**, and – to **B-** Switch the lift power back on.
3. The lift is now ready for the Brake Test (Coil 1)
 - a. Press the Brake Test Push and **Hold!**
 - b. Twist the Brake Test Key Switch Clockwise (as Fig3 below) and **Hold!**
 - c. The Almega 2 display will show the screen as (Fig 1) below:
 - d. After 3 seconds a car call will automatically be placed to the Brake Test Floor.
 - e. The lift will accelerate up to high speed and then crash stop itself (keep the Brake Test Key Switch Held, see Fig 2)
 - f. The lift brake will drop and **coil 1** will de-energise, **coil 2** will stay energised.
 - g. The lift will decelerate using the friction of the brake associated with **Brake Coil 1 only**.
 - h. Switch the lift power off, and remove the wiring to Brake Coil 2 (+ and -)
4. Then re-connect back to normal as below:
 - a. Remove any links first.
 - b. + to **B2+**, and – to **B2-**
 - c. Switch the lift power back on.

STEP 9: TURN BACK ON BRAKE MONITORING IN THE VF DRIVE (if applicable)

1. e.g. Ziehl Abegg Z4
2. Select MONITORING MENU from the keypad.
3. SELECT BR; and select option 2NC.
4. Press Enter / Carriage Return to confirm.

Fig 4: Brake Test Timing Chart (Test Brake 2 whilst Holding off Brake Coil 1)

