



**ASSA ABLOY**

# **TALKBACK DAMPER CONTROL SYSTEM**

## **FAULT FINDING CHART**



## PLEASE NOTE

*This chart should be used in conjunction with the manufacturers Installation, Wiring and Commissioning instructions.*

*It is important to be aware of the following information concerning the shutter control system when fault finding:*

The top row of green lights of the control unit indicate:

- a) Initially that the control unit has instructed the damper or shutter to open.
- b) 20 seconds later if the green light is still illuminated the damper or shutter has successfully executed the instruction.

The centre row of red lights marked NULL on the control unit when illuminated indicate either:

- a) Failure of a shutter to follow the last command from the control unit if connected. The red light may take 30 seconds to illuminate after the command was transmitted whilst the system interrogates and responds for each channel.
- b) No shutter is connected to this channel.

The bottom row of green lights of the control unit indicate:

- a) Initially that the control unit has instructed the damper or shutter to close.
- b) 20 seconds later if the green light is still illuminated the damper or shutter has successfully executed the instruction.

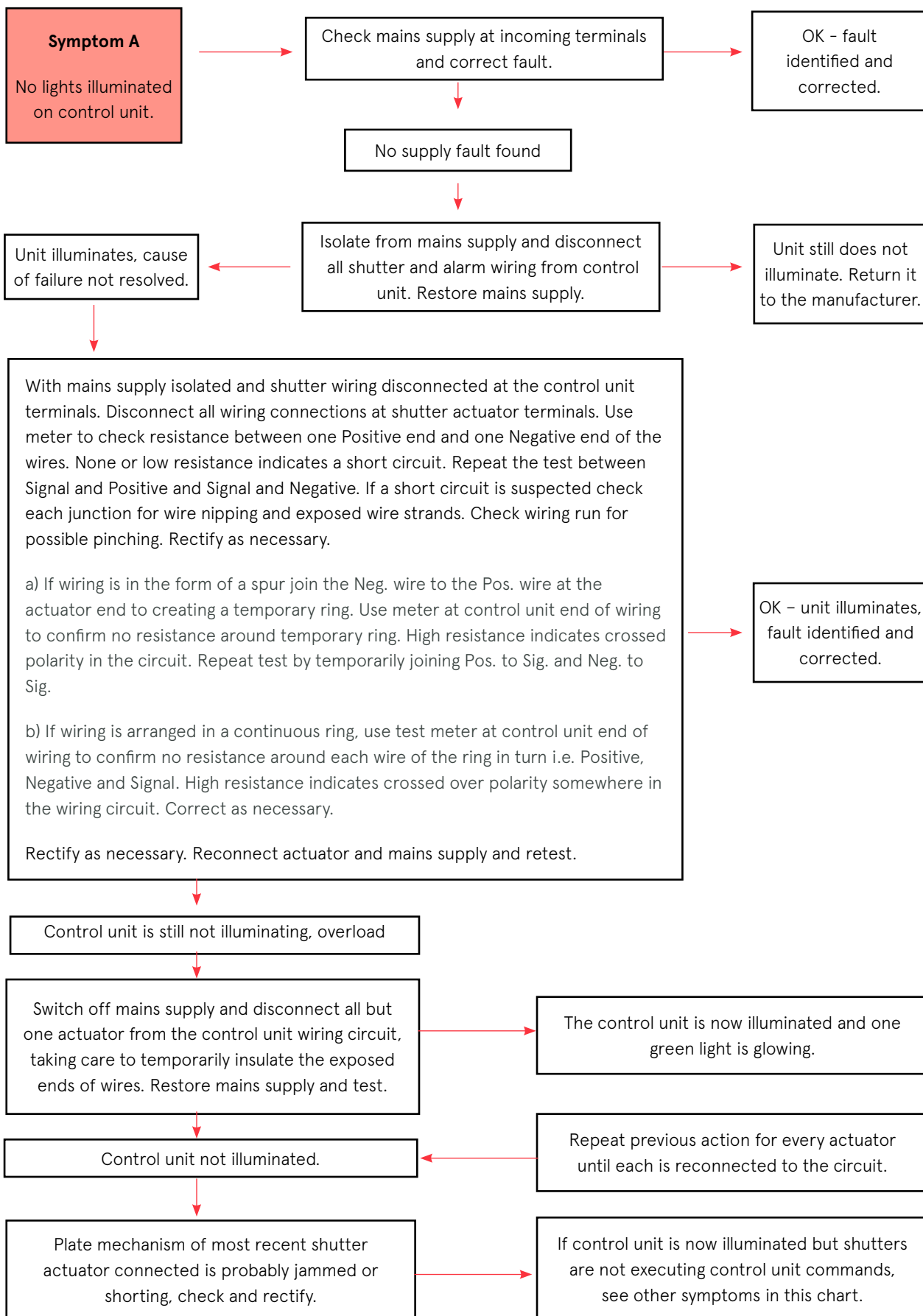
Ensure that sufficient time is allowed for the system to stabilise when initially powered up. Also allow sufficient time for control unit commands to be received by the actuators and confirmation from the shutter or damper actuators sent back to the control unit.

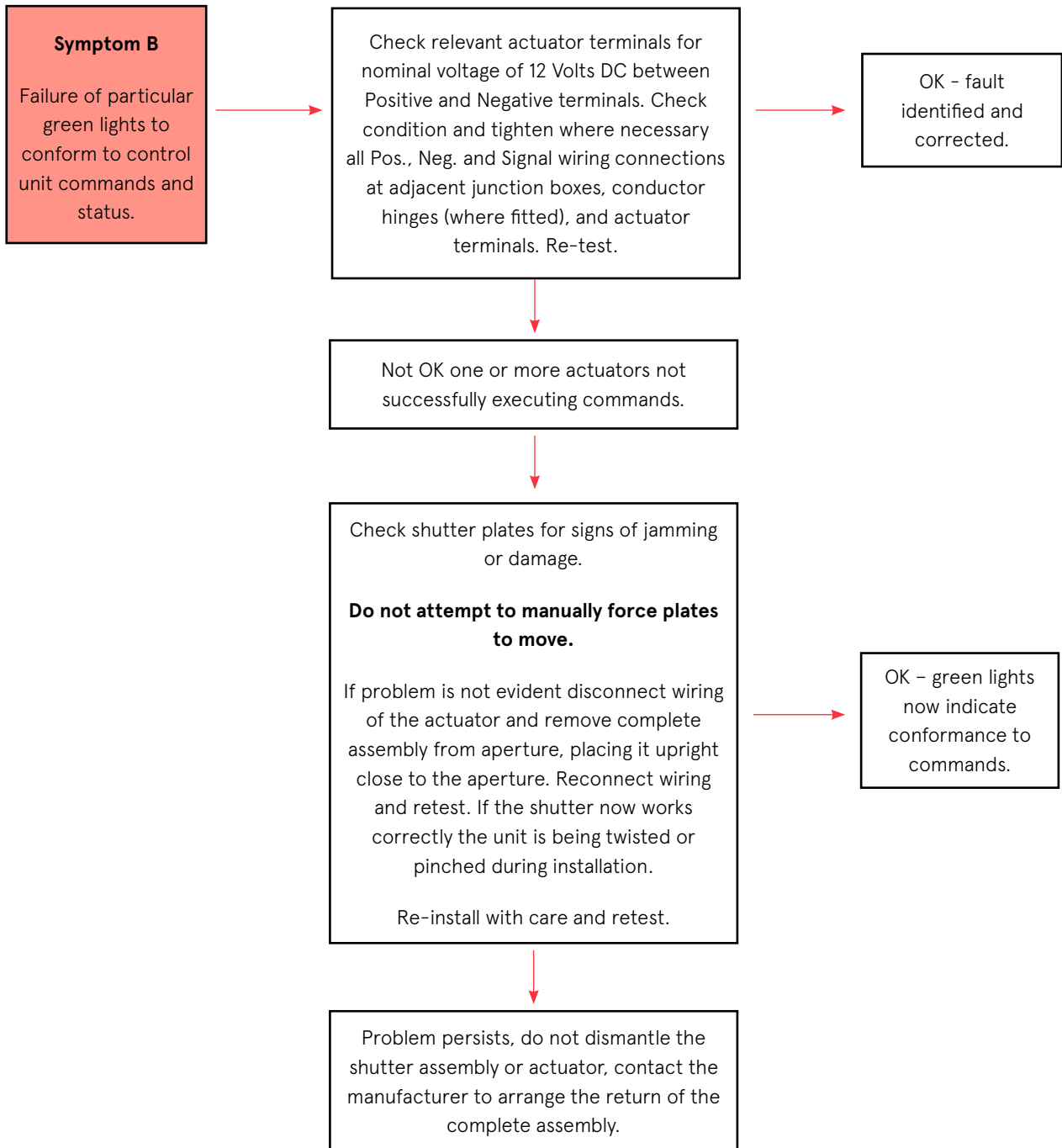
Before conducting a lost power "Fail Safe" test, at least 4 minutes must be allowed from powering up the system in order to ensure that all capacitors have been adequately charged.

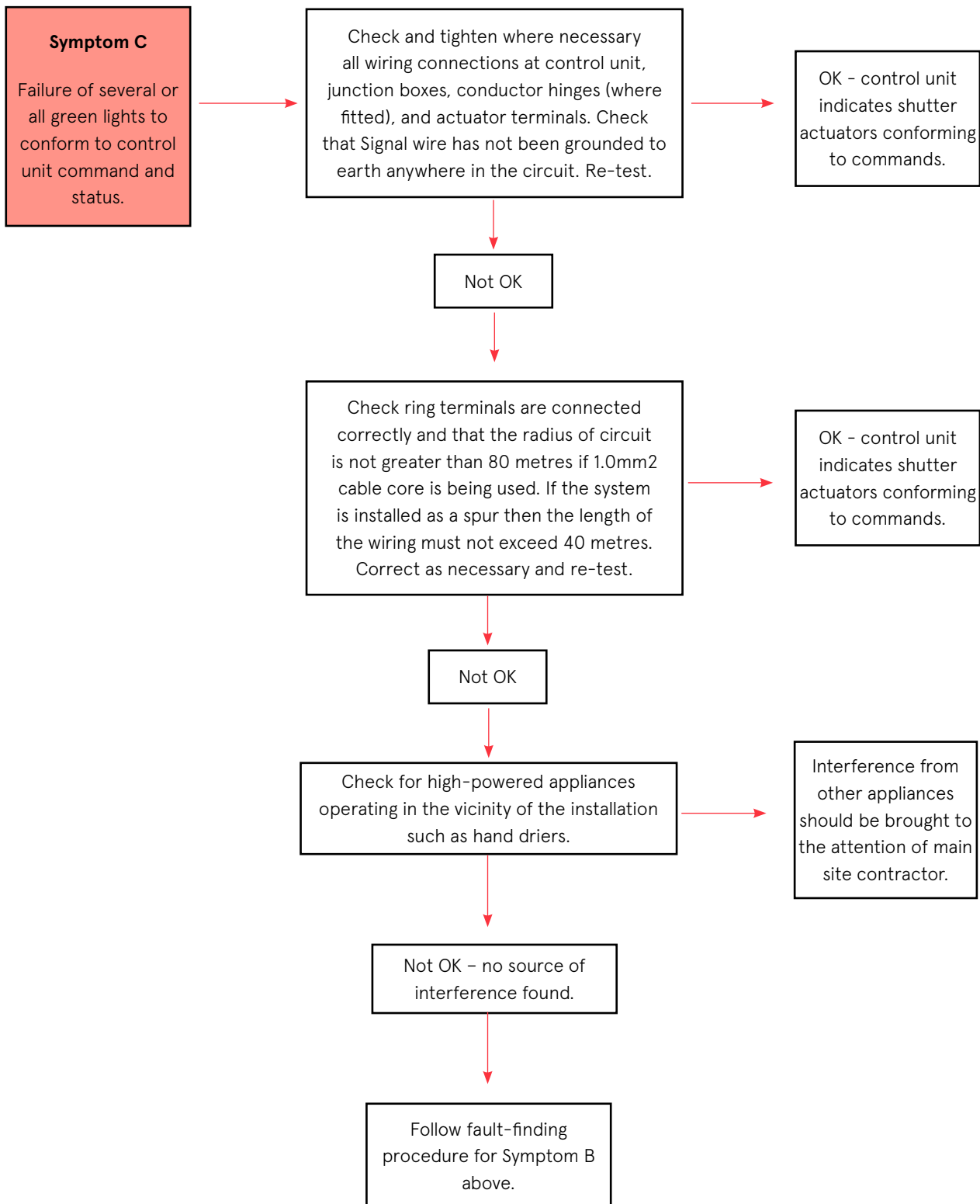
Fault symptoms on this chart have been arranged in the most likely order that they may be encountered during commissioning.

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**Symptom D**  
Less green lights illuminated than shutters in installation.

Identify the shutter(s) corresponding to the address not registering on the control unit display, check and tighten where necessary all wiring connections at adjacent junction boxes, conductor hinges (where fitted), and actuator terminals. Re-test.

All lights responding OK after sufficient time allowed for system stabilisation.

Not OK, still insufficient green indicators illuminated.

Check for shared addresses of actuators and reset each to unique address. Re-test.

All lights responding OK after time allowed for system stabilisation.

Not OK - all shutter actuators on unique address.

Follow fault-finding procedure for Symptom B above.

**Symptom E**  
Control unit displays green lights in closed mode and alarm light flashes when fire alarm panel is not indicating an alarm status.

Check with manufacturers wiring, installation and commissioning instructions for correct connections from control unit to fire alarm panel wiring. Correct as necessary and re-test.

OK - control unit display following correct mode.

Not OK

Check wiring continuity between connections to the fire alarm panel and the control unit. Correct as necessary and re-test.

OK - control unit display following correct mode.

Not OK

Check fire alarm panel "No Volt" connection, correct as necessary and re-test.

**Symptom F**  
Control unit displays green lights in open mode and alarm light does not flash when fire alarm panel is indicating an alarm status.

Check with manufacturers wiring, installation and commissioning instructions for correct connections from control unit to fire alarm panel wiring. Correct as necessary and re-test.

OK – control unit display following correct mode.

Not OK

Check wiring short between connections to the fire alarm panel and the control unit. Correct as necessary and re-test.

OK – control unit display following correct mode.

Not OK

Check fire alarm panel "No Volt" connection, correct as necessary and re-test. Check fire alarm panel "No Volt" connection, correct as necessary and re-test.

**Symptom G**  
Failure of a shutter to "fail safe" (closed) when power supply is cut off.

Check shutter plates for signs of jamming or damage and remove any obvious obstructions to free movement.  
**Do not attempt to manually force plates to move.**  
Re-test ensuring that mains power is on for at least 4 minutes before cut off.

OK if real cause has been eliminated.

If problem is not evident, disconnect wiring from the actuator and remove complete assembly from aperture, placing it upright close to the aperture. Reconnect wiring and conduct a 4 minute retest.

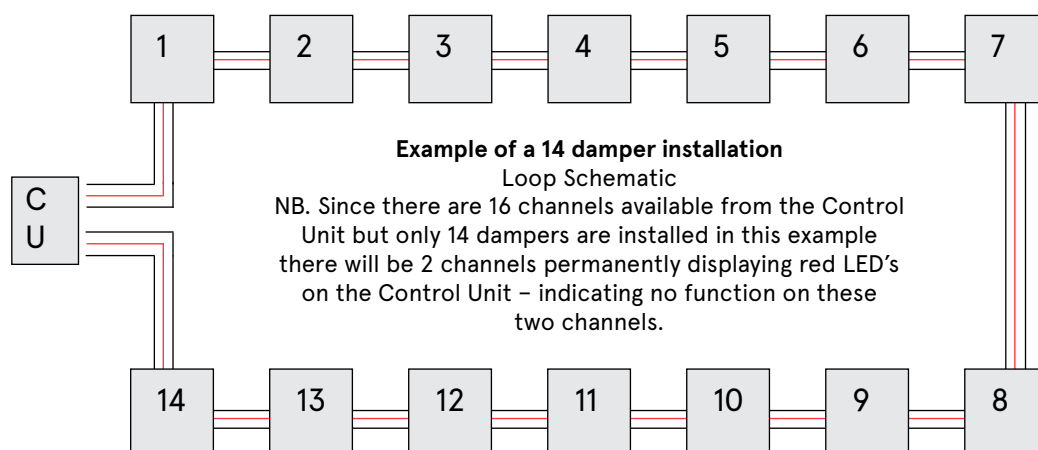
If the shutter now works correctly the unit is being twisted or pinched during installation. Re-install with care and retest.

If the problem persists do not dismantle the shutter assembly or actuator, contact the manufacturer to arrange the return of the complete assembly.

## SEQUENTIAL TEST METHOD TO IDENTIFY FAULTS ON "TALKBACK" LOOP INSTALLATIONS

### IMPORTANT NOTES:

1. There must be an adequate 240 Volt AC supply to the Control Unit.
2. The DC supply at any point around the loop should not be lower than 10.5 volts.
3. Cable should not exceed the lengths recommended by Lorient for wire cross sectional areas used in the installation.
4. This test method will only work if the damper addresses are coincident with the actual order of dampers around the loop. Check that addresses are in the actual order before starting the test sequence, correct as necessary by changing the addresses on the actuators.
5. Make sure that no dampers share the same address.



### Example of fault:

Symptoms – Control unit displays green lights for all dampers in circuit when in closed mode.

When open mode selected, green open LED,s flash but system keeps defaulting to green closed LED's.

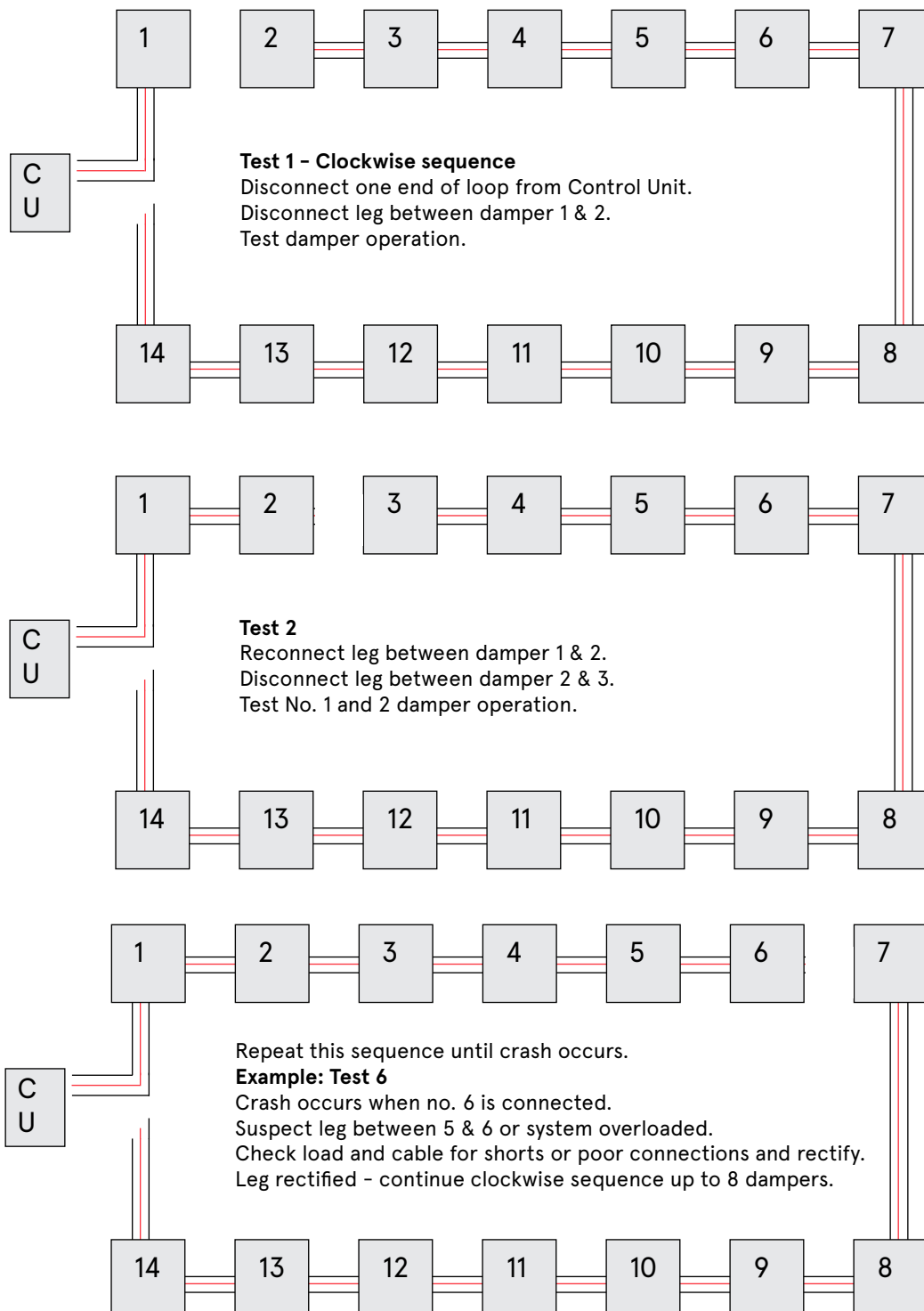
The system is doing what it is designed to do. Failing Safe - it recognises that a fault exists and therefore will not allow the fire and smoke dampers to open until the fault is rectified.

### Possible causes:

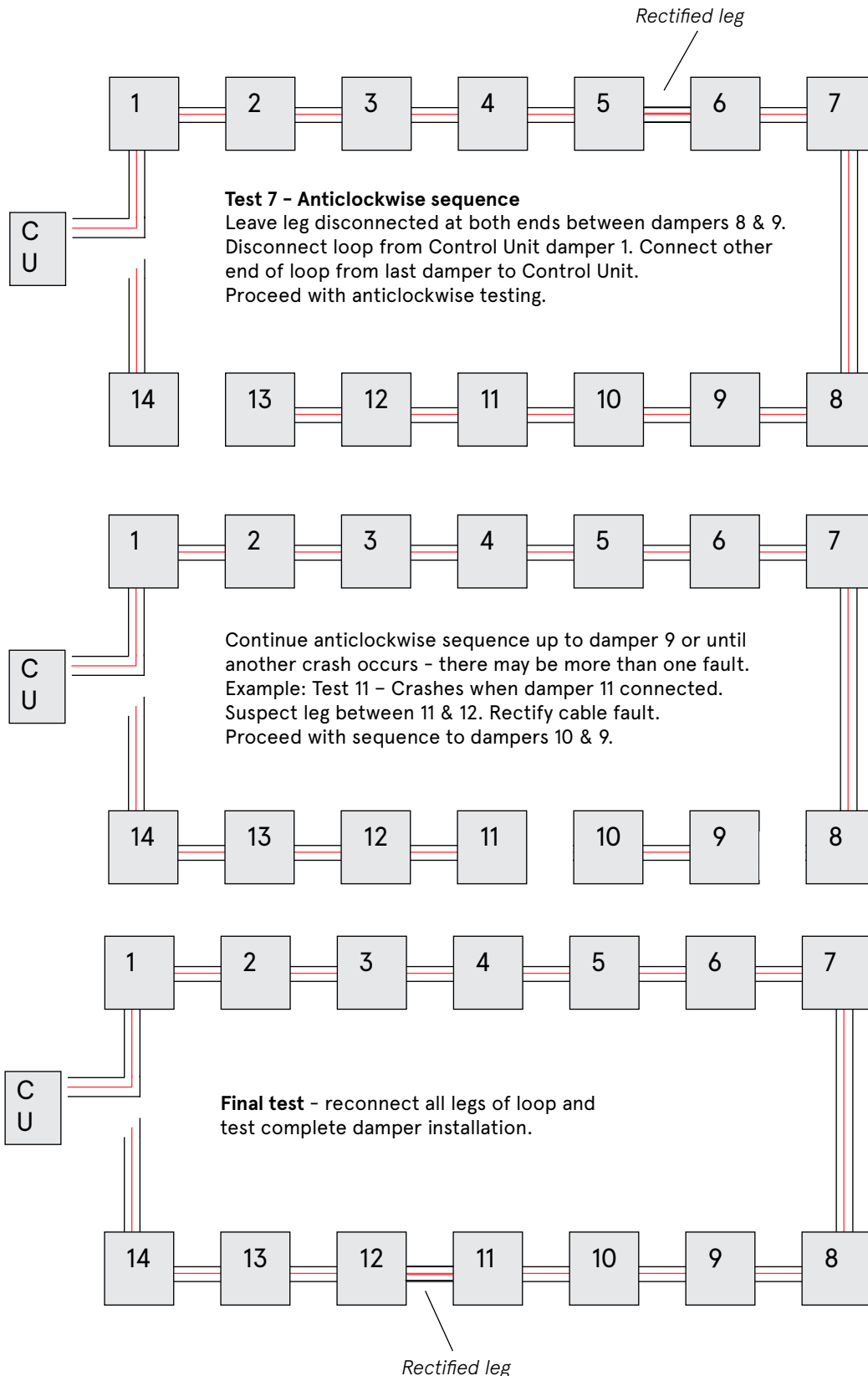
- ▶ AC supply to Control Unit is inadequate – check and rectify if necessary.
- ▶ Short circuit on signal or supply cables in loop.
- ▶ Dampers sharing same address.
- ▶ Poor connections at cable junctions.
- ▶ Too much load on the Control Unit.



## SEQUENTIAL TESTING PROCEDURE



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