

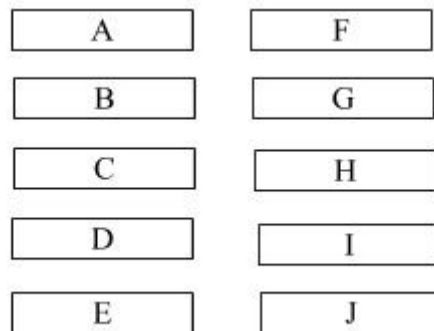
# WCM2B Keypad Diagnostics



WCM Wired keypads have been updated to supply additional diagnostic information. Firmware version 1.1.6 onwards feature advanced fault diagnostic indicated by the flashing of certain buttons.

On panels where not all button positions are populated eg. WCM070/WCM020 the cover plate will have to be removed for all LEDs to be visible.

## WCM button key:



## Common causes of crossed cables:

- Incorrectly punched down (punched down on incorrect colour)
- Cable end of punched down cable not snipped off. Causing short across bottom board.
- Nicked cable in wall causing short between two cables.

## Notes:

- Multiple warnings may be shown.
- While the bus is terminated both high and low bus lines may show under or over voltage. Temporarily removing the termination may help identify which line is at fault.
- The plate will enter diagnostics on a power cycle or reset. Once the tests have passed the diagnostics are not checked until the next power cycle or reset.

<b>Button Flash</b>	<b>Fault definition</b>	<b>Affected Cables</b>	<b>Possible Causes</b>
B	ERROR: CAN Transmission failure.	Blue/White, Blue - <i>Daisy Chain configuration</i> Blue/White, Blue, Green/White, Green - <i>Star wiring configuration</i>	The WCM cannot communicate with the CAN bus successfully.
D	Warning: Low Supply Voltage	Orange/White, Orange, Brown/White, Brown	Supply voltage has dropped below 10V.
E	Exit Warning Test Mode	N/A	“Exit Test Mode” will clear voltage errors (Errors G-J). These should be rectified before handing over the system.
F	ERROR: CAN Short circuit	Blue/White, Blue, Green/White, Green	Data +(Blue/White or Green/White) shorted to Data - (Blue or Green).
G	Warning: CAN High (Blue/White) Over Voltage	Blue White, Orange/White, Brown/White	Blue/White shorted to Orange/White or Brown/White.
H	Warning: Blue/White Under Voltage	Blue/White, Orange, Brown, Blue, Green.	Blue/White is shorted to ground. Most likely Blue/White shorted to Orange, Brown, Blue or Green.
I	Warning: Blue Over Voltage	Blue, Orange/White, Brown/White	Blue shorted to Orange/White or Brown/White. Could be either incorrectly punched down.
J	Warning: Blue Under Voltage	Blue, Orange, Brown, Blue, Green.	Blue shorted to ground. Most likely Blue shorted to Orange, Brown, Blue or Green.

*Caution should be exercised while using this table for diagnostic purposes. The suggested possible cause is the most likely of many possible outcomes but is not a guaranteed solution.*