

Technical Bulletin

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To: Wessex UK Agents, Installations, Service
Cc: CP, PH, DJ, KA, TP, SF, MJ, SP
Date: 13th June 2013
Subject: VM Wireless Call Stations
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In addition to our current range of VM Homelift call station options, we are now offering a **Wireless Call Station Option** for the UK market. Wireless call stations can be fitted in place of, or alongside, hard-wired call stations. These will be available for despatch from July 22nd.

Below are the Wessex part numbers. Subsequent pages provide installation, set-up, testing, operation and maintenance detail. Electrical connection detail and dip switch settings are also provided on drawing *VM30 8105 VM Schematic Wiring Diagram*.

Part Numbers

Part No.	Description
VMOP 3045M	Wireless Call Stations Option

This option is made up of the following:

Part No.	Description	Quantity
EC14 0018	Wireless Call Station Kit	1
VM30 8079	Loom Call Station Wireless	2
VM10 1608 90	Bracket Handset Fixing	2

Please note the **Wireless Call Station Kit** includes:

- Two handsets (with three AAA batteries fitted to each)
- One receiver with attached loom

Additional Wireless Handsets are also available.

Part No.	Description	Quantity
VMOP 1111NM	Additional Wireless Handset	1

Documentation

The following relevant documentation has been up-issued:

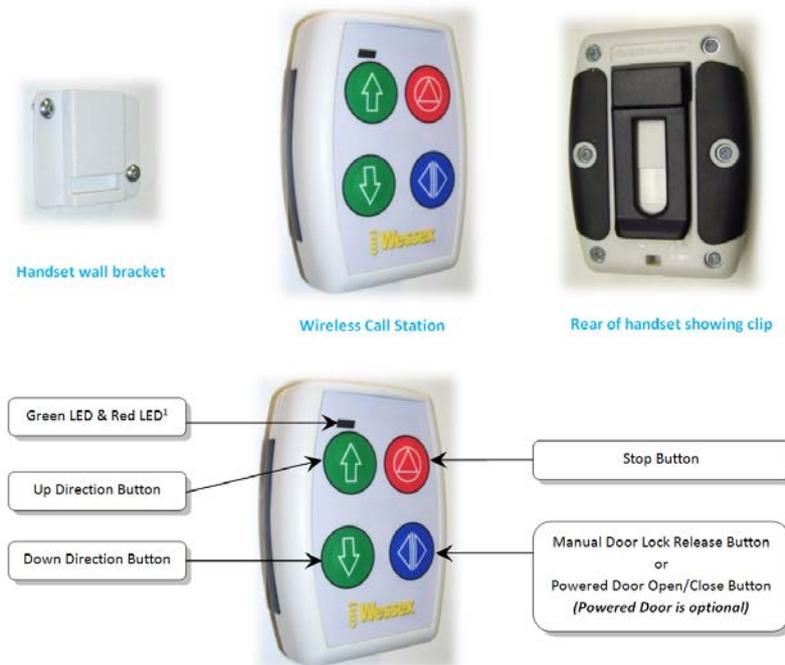
VM30 8105	VM Schematic Wiring Diagram	(now issue D)
VM00 7105	Wessex Homelift User Manual	(now issue C)
VM01 5121	UK Technical Sales Specification	(now issue D)

The Wireless Call Station Handset

There is one type of wireless call station handset. This meets the needs of all VM Homelift models and door types. The handset clips to a bracket attached to the wall (see Fig.1). For new installations, where the wireless call station option has been ordered, two handsets, two handset wall brackets, one receiver and two wireless call station looms are supplied. Both handsets are supplied paired to the receiver. One handset and bracket must be fitted at each level by the lift installer. The estimated range of the handset within buildings is 20 to 40 metres.

If desired, the handset can be unclipped from its bracket and used as a portable handset. Key switches on wireless call stations are not available. However, once unclipped, the user can place the handset in a secure location to prevent unauthorised use. If call station key switches are required, we recommend the hard-wired call station option is installed. In the interest of safety, we recommend the handset is retained on its wall bracket while the lift is in use.

Further wireless handsets can be added (see page 4).



*Note 1: The Green LED illuminates only when a button is pressed.
 When the batteries are low, the Red LED will flash for 5 seconds after a button is pressed.*

Figure 1: Overview of the Wireless Call Station

Battery Replacement

Each wireless call station handset requires three AAA batteries. We recommend the batteries are replaced annually by the service provider, or another competent person. To replace the batteries, remove all six screws on the rear of the handset for access to the battery holder. Then remove the two screws from the battery holder (see Fig. 2). When reassembling, take care not to pinch any wires between the casings.



Figure 2: Battery replacement

Receiver Installation

The lift installer must fit the receiver. The receiver mounts to three threaded studs at the top of the PCB tray using M4 nylon insert nuts and plain washers supplied in the fixing boxes.

The receiver loom connects to PLK on the main PCB (see Fig. 3).

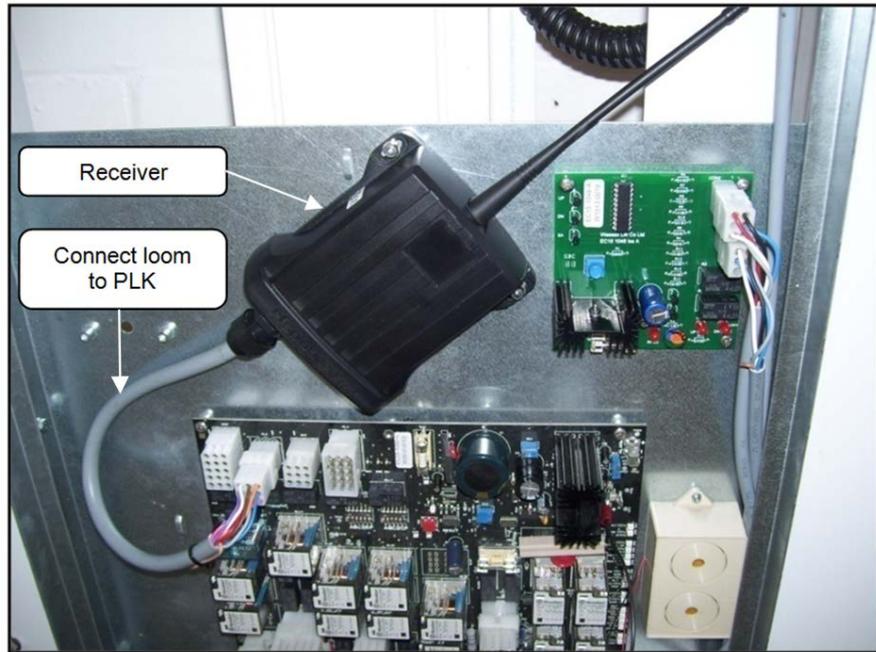


Figure 3: Receiver installation

Wireless Call Station Looms

Wireless Call Station Looms are 15-way Molex shorting plugs that replace the hard-wired call station looms 'stop' circuit. Two are required for each lift. Ensure the mains power is off. Connect the wireless call station looms into the two call station sockets on the right hand side of the PSU PCB (see Fig. 4).

Note: If hard-wired call stations are fitted also, then the wireless call station looms are not used. Connect the call station looms in the usual manner.



Figure 4: PSU PCB showing both Wireless Call Station Looms connected.

Set-up

On the main PCB, move dip switch **SW3 A** to the lower position to enable the stop button on wireless handsets.

Leave dip switch **SW4 A** in the upper position for both manual and power doors. This enables the door lock solenoid to release for both door types (see Fig. 5).

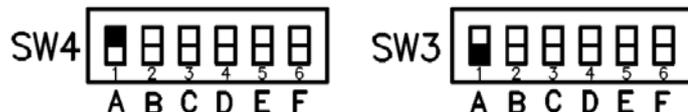


Figure 5: Dip switch setting

Adding a handset

To add a handset to an existing system:

1. Hold a magnet over the area indicated in Figure 6. You may need to move the magnet around slightly.
2. You will hear a short bleep. The bleep indicates the start of a ten second period in which a handset can be added.
3. Press and release the Up arrow button on the handset to be added. Ensure the Green LED on the handset illuminates.
4. At the end of the ten second period you will hear two long bleeps. This indicates the system has returned to its normal operating condition.
5. Test all handset buttons function correctly.

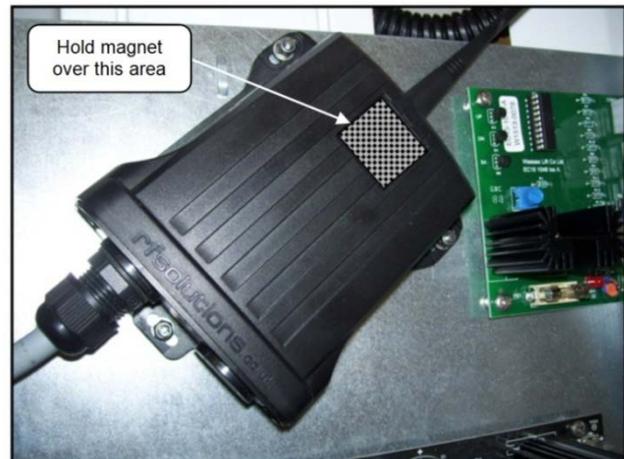


Figure 6: Receiver

Test Procedure

1.	Test the Up direction button on all handsets. Ensure the Green LED on the handset illuminates.
2.	Test the Down direction button on all handsets. Ensure the Green LED illuminates.
3.	Test the Stop button on all handsets. Ensure the Green LED illuminates.
4.	Test the Door button on all handsets. Ensure the Green LED illuminates. <ul style="list-style-type: none"> • For power doors, the door should open and close. • For manual doors, the lock should release.

Checks in the event of a problem

1.	If the Red LED on the handset flashes after a button is pressed, this indicates a low battery. Replace the AAA batteries.
2.	Check the Green LED on the handset illuminates when a button is pressed. If the Green LED fails to light, check the AAA batteries.
3.	Check the dip switches are correctly set (refer to drawing VM30 8105).
4.	Check the Wireless Call Station Looms are correctly wired and connected. The link wire connects from pin 1 to pin 4 (see Fig. 4).
5.	Check the receiver loom wiring to PLK is correct (refer to drawing VM30 8105).
6.	With all connections made, check there is 24V DC on the Red wire (pin 8) on the receiver loom at PLK.
7.	<p>If all the above checks are sound, check all wiring to the receiver PCB (refer to drawing VM30 8105).</p> <p>Remove the receiver, unscrew and remove the antenna, remove the two screws at the base of the receiver casing and slide out the receiver PCB.</p> <p>When reassembling, note that the PCB locates into slots moulded into the receiver casing.</p>



Figure 7: Receiver PCB