Installation

Retro-fit MRC Kit

VSRPT-MRC (Mark 4)

GENT by Honeywell

The Retrofit Master Repeat Card (MRC) Mark-4 kit (VSRPT-MRC) is designed for a loop wired old Repeat and A2 Mimic panels that are installed in EN54 or BS5839 Gent analogue and addressable fire detection and alarm systems. The kit must be installed in the manner described in this leaflet.

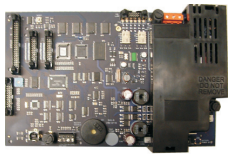
Compatibility

The new MRC kit is **only** compatible with system control panel having:

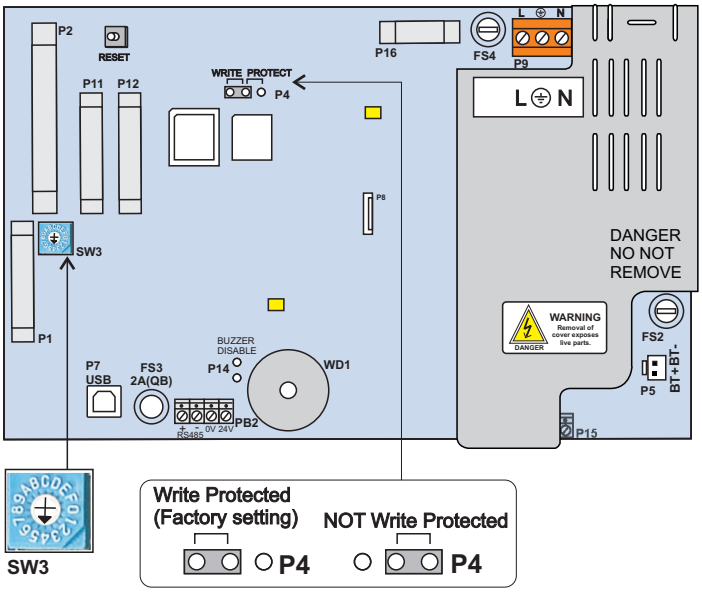
Control panel CARD	Control Panel Software	
	EN54	BS5839
Loop Processor Card **New Shorter Card ONLY**	≥ V4.19	≥ 3.90

≥ means equal to or greater than

Kit contents

No.	Part and Description	Qty
①	 Retrofit Master Repeat Card (Mark 4) with Protective Cover	1
②	 40-way ribbon cable	1
③	 20-way ribbon cable	1
④	 20-way adaptor cable	1
⑤	 Battery lead	1
⑥	 Earth lead	1
⑦	 Washer	2
⑧	 M4 Screw	1
⑨	 Spacer	5
⑩	 Fuse 2A 20 x 5mm QB	1
⑪	 Fuse 3A15 20 x 5mm AB Ceramic	2
⑫	 10-Way ribbon	1

Retrofit MRC (Mark 4)



Rotary switch SW3 and settings

	Panel
0	A2/A3/A4 Mimic Panel only
1	3400 Repeat panel (having a 4 line display)
2	32000 Repeat panel (having a 16 line display)
3	Vigilon Repeat panel (having a 16 line display)
4	Vigilon Repeat panel (having an 8 line display)
5 to F	Unused

Retrofitting the MRC into an old Repeat Panel

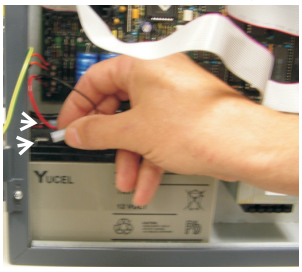
To fit a **Retrofit MRC** kit in an old Repeat panel:

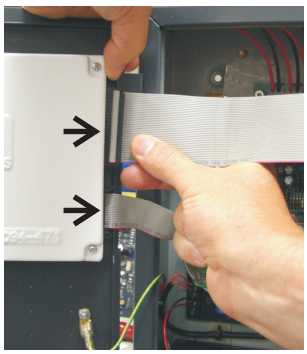
a. Power down the loop on which the Repeat panel is connected. To do this use the controls at the main panel, **[Reset]#** the loop and immediately press any of the **function** keys to power down the loop.
Use the **[Stop]** loop command if available instead of the **[Reset]** command.

Switch off the mains power to the Repeat panel at its fused spur unit.

b. Open the **outer** and **inner doors** on the panel to access parts in the backbox.

c. Disconnect **battery leads** from the battery.

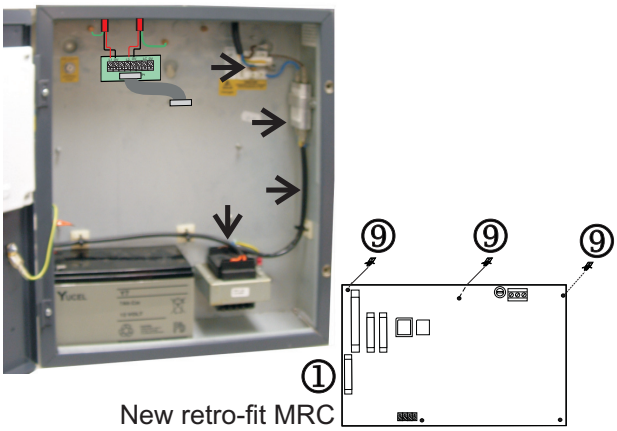




d. Disconnect the **20-way** and **40-way ribbon cables** from the old Master Repeat Card and the Display Keyboard Card and discard the ribbon cables.

e. Disconnect the **battery lead**s from terminal block P9 and then disconnect the 'terminal card' ribbon cable from header P16. Remove the old Master Repeat Card from the back box.

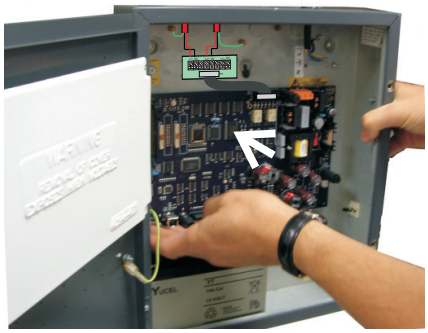
f. Remove the **transparent cover** fitted over the mains terminal block and disconnect the **external mains cable** from the terminal block. Remove the **transformer**, **mains terminal block, mains filter** and associated **wiring** from back box and discard as they are no longer required.



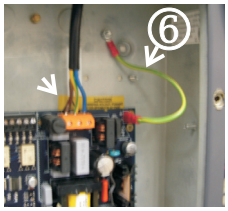
New retro-fit MRC

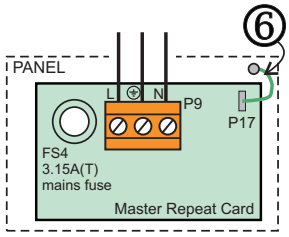
g. Temporarily remove the protection cover from the **Retrofit MRC** ① for access to fixing points. Fit the **spacers** ⑨ provided onto the underside of the new MRC, in the locations shown in the diagram above.

h. Fit the **Retrofit MRC card** ① into the backbox and connect the 'terminal card' ribbon cable to socket P16 on the Retrofit MRC.



i. Connect the **mains cable** directly to terminals on the Retrofit MRC.





j. Fit the **earth lead** ⑥, connect the spade end to P17 on the Retrofit MRC and fit the eyelet end of the lead to earth point on back box.

k. Fit the connector on the new **battery lead** ⑤ to the battery terminals only.

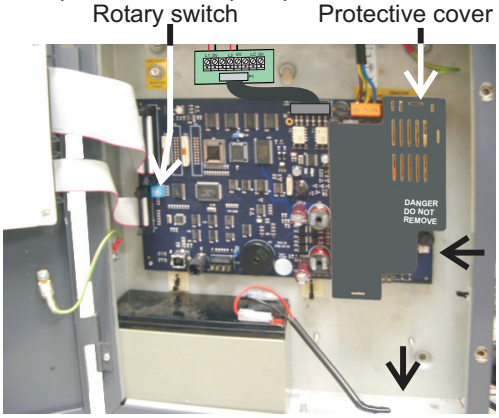
l. Connect the new **20-way** ③ **and 40-way** ② **ribbon cables** to the sockets P1 and P2 on Retrofit MRC and the other end to respective sockets on the Display keyboard card.

To avoid the risk of electric shock, ensure the protective cover is fitted over the Retrofit MRC before power up.

m. Set the **rotary switch** SW3 to the correct setting, refer to the table. The switch is located below the 40-way ribbon cable header P2 on the new Master Repeat Card.

n. Power up the panel by plugging the **battery lead** ⑤ to socket P5 on the Retrofit MRC and then switch on the mains power to the Repeat panel.

Rotary switch Protective cover



o. Wait for Repeat panel to power up and then use the controls at the main control panel to **reallocate** the loop. The Repeat panel will then show the indications of the main control panel.

p. Close and lock the inner and outer doors of the panel.

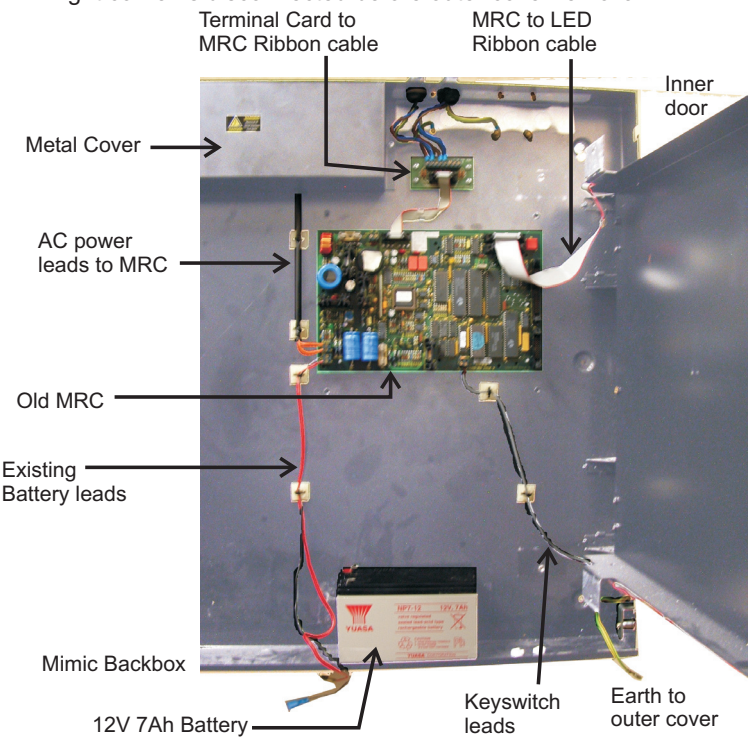
Retrofitting the MRC into an A2 Mimic panel

To fit a Retrofit MRC kit in an A2 Mimic panel:

a. Power down the loop on which the A2 Mimic panel is connected. To do this use the controls at the main panel, **[Reset]** the loop and immediately press any of the **function key** to power down the loop.
Use the **[Stop]** loop command if available instead of the **[Reset]** command.

⚠ Switch off the mains power to the A2 Mimic panel at its fused spur unit.

b. Unlock and unhook the **outer cover** from the A2 Mimic panel, ensuring the cover-backbox **earth lead** located on the bottom right corner is disconnected before outer cover removal.



c. Unscrew the two fixing screws and hinge open the **inner door** of the A2 Mimic panel.

d. Isolate the standby supply to the panel by disconnecting the **battery leads** at the battery. Then remove the battery lead from the terminal block on the old MRC and completely remove and discard the battery leads from the panel.

e. Disconnect the **AC wires** from the mains terminal block at the MRC.

f. Disconnect the **keyswitch wires** from the keyswitch terminal block at the old MRC.

g. Disconnect at the old MRC the **ribbon cable** that connects to the terminal card.

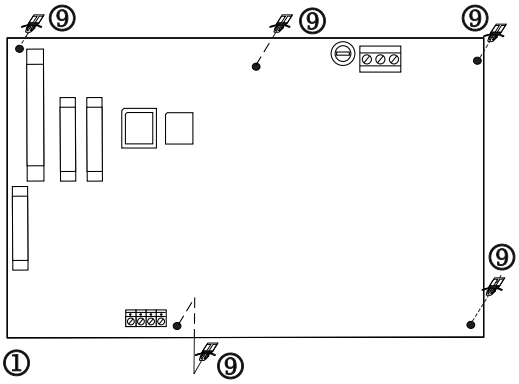
h. Disconnect at the old MRC the **ribbon cable** that connects to the Mimic LED boards.

i. Remove **metal cover** at the top centre of the back box.

j. Remove the **mains filter, transformer** and **associated wires** from the back box and discard these as they are no longer required.

k. Carefully remove the **old MRC** from the backbox.

l. Temporarily remove the protection cover from the **Retrofit MRC** ① for access to fixing points. Fit the **spacers** ⑨ provided on the underside of the Retrofit MRC, in the locations shown in the diagram below.



m. Fit the **Retrofit MRC** into the back box.

n. Fit the spade end of the **earth lead** ⑥ to connector P17 on new MRC. Using the **shakeproof washers** ⑦ and **M4 screw** ⑧ secure the earth lead from the Retrofit MRC to the earth point located on the back box above the top right edge of the Retrofit MRC.

o. Connect the **keyswitch wires** to terminal block P15 on the new MRC.

p. Connect the incoming **mains cable** directly to the mains terminal block P9 on the Retrofit MRC.

q. Fit the **'terminal card' ribbon cable** ⑫ , one end to socket P1 on the terminal card and the other end to socket **P16** on the Retrofit MRC.

r. Fit the **adaptor ribbon cable** ④ to the ribbon cable from the LED boards and then connect the other end of the adaptor ribbon cable to socket P12 on the Retrofit MRC.

s. Set the **rotary switch SW3** on the Retrofit MRC to **position 0**.

If this is an A2 'zonal' mimic panel then there is no need to transfer the configuration file, ignore step t. as the factory configuration of the Retrofit MRC is for a zonal mimic panel.

t. Transfer the mimic configuration. This procedure is to be defined.

To avoid the risk of electric shock, ensure the protective cover is fitted over the Retrofit MRC before power up.

u. Connect the new battery leads to the connector P7 on the retrofit MRC, check the colour of the leads red is + and black is -.

v. Connect the battery wires to the battery.

w. Close and secure the inner door and fit the outer cover, ensuring the earth lead is connected to the backbox.

x. Power up the mains supply to the panel.

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste. Do not burn.

Gent by Honeywell reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

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