Hanwell
Ultimate peace of mind

Ellab
Part of the Ellab Group

GD5742
CR3 Network

Upgrade Guide

hanwell.com

Intentionally Blank

Document History

Document Number: GD5993

Issue No.	Issue Date	Changes	By
1	21 March 2018	First Issue	IR
2	3 February 2020	Rebranding of Manual to include Ellab Formatting changes	IR

Contents

1 Introduction

This upgrade Guide provides instructions for upgrading your CR2 Receiver to a CR3 device, following purchase of one of the available upgrade kits.

2 Check Contents of Box

Depending on the Option purchased the CR2Net's box should contain:

Upgrade Kit 1:	Upgrade Kit 2:	Upgrade Kit 4:
1 x CR3 circuit board 1 x CR3Network circuit board 1 x Rear Panel 1 x Front Panel **Note:** Does not include receiver or power supply	1 x CR3Network circuit board 1 x ROM 1 x Rear Panel 1 x Front Panel **Note:** Does not include receiver or power supply	1 x CR3 circuit board 1 x CR3Network circuit board 1 x Rear Panel with Lemo/Trans socket installed 1 x Front Panel **Note:** Does not include receiver or power supply

3 Upgrade Installation Instructions

3.1 Upgrade Kit 1 or 4 Copying Conset Settings

The following instructions enable copying settings from RadioLog to the new CR3 board.

If Conset is not being used; or there are no existing control sensors; or just a few control sensors existing control sensors, (it will be easier to just re-enter the details into Synergy); ignore this section and go to *Upgrade Kit 1 or 4 Installation Instructions*.

1. Power down the CR2 unit and disconnect all cables.
2. Remove back panel of your CR2 unit (spring off bezel and undo 4 screws)
3. Carefully remove the existing CR2 circuit board.
4. Using a slim tool and working carefully from both ends of the chip, remove the old PIC/ROM from the existing CR2 circuit board, taking note of its orientation.
5. Again using a slim tool and working carefully from both ends of the chip, remove the CR3 PIC/ROM from the new, supplied, circuit board, taking note of its orientation.
6. Ensuring the divot on the PIC/ROM matches the indent printed on the circuit board, insert the PIC/ROM from the existing CR2 circuit board into the new, supplied, circuit board **being very careful to line up all pins before applying pressure** (See Figure 1 below).

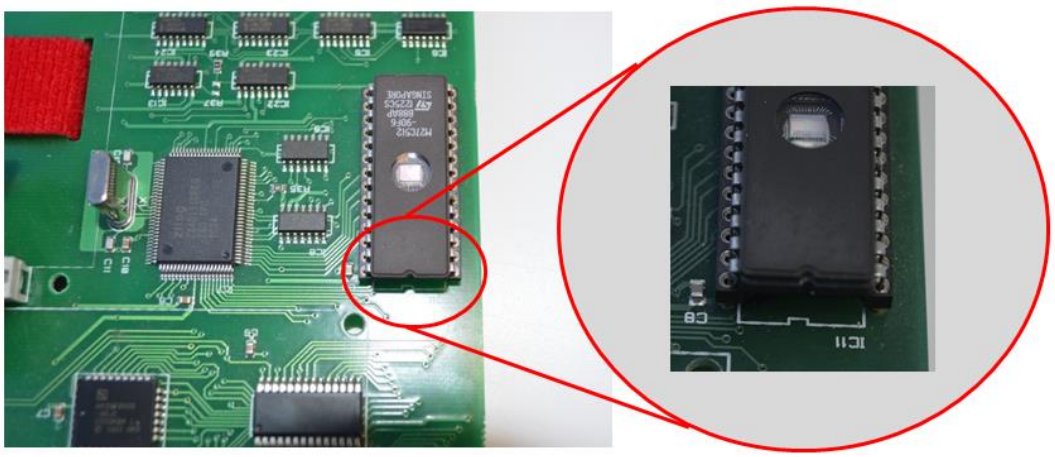

Figure 1

7. Connect the new, supplied, board via the USB socket/cable to your RadioLog PC.
8. Run RadioLog and configure Architect; then run Conset, and send Conset settings to the new board.
9. Switch off and remove power from the board.
10. Using a slim tool and working carefully from both ends of the chip, remove the old PIC/ROM from the new, supplied, CR3 circuit board, taking note of its orientation.

11. Ensuring the divot on the PIC/ROM matches the indent printed on the circuit board, insert the new CR3 PIC/ROM into the new, supplied, circuit board **being very careful to line up all pins before applying pressure** (See Figure 1above).

12. Gather together your upgraded CR3 circuit board and CR3Network circuit board; and go to *Upgrade Kit 1 or 4 Installation Instructions* step 4 below.

3.2 Upgrade Kit 1 or 4 Installation Instructions

1. Power down the CR2 unit and disconnect all cables.

2. Remove back panel of your CR2 unit (spring off bezel and undo 4 screws)

3. Carefully remove the existing CR2 circuit board.

4. Carefully slide the new CR3 circuit board half way into the CR2 Unit's case.

5. Locate the cable and connector on the new CR3 circuit board and remove the tie wrap (See below).

Figure 2

6. Attach the cable's connector to the socket on the CR3Network circuit board (See above):

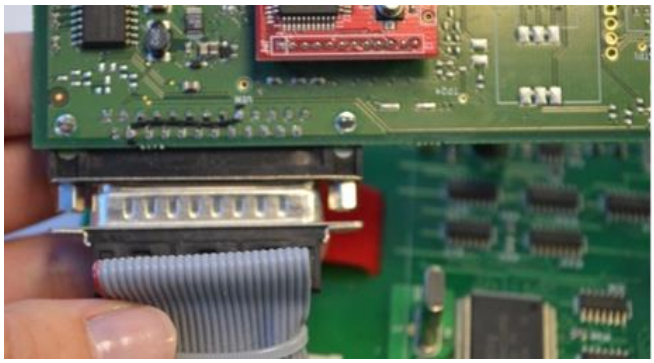

Figure 3

7. Align the boards as shown in Figure 4 below and then slide both boards back into the CR2 case together, using the pre-cut slots to keep them apart.

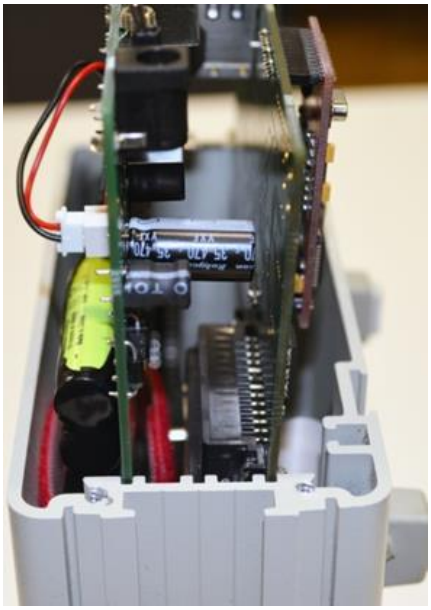

Figure 4

- The CR3Network circuit board should sit below the location of the original CR2 circuit board.

8. After lining up the Ethernet socket with its opening, insert and tighten the two screws through the back panel and into the CR3Network circuit board. See Figure 5 below:

Figure 5

Note: Make sure that you are careful when putting the boards into the case as they are easily damaged.

9. Replace the back panel with the supplied part, and secure with the remaining 4 screws. See Figure 5 below:

Figure 6

10. Replace the bezel.
11. Remove the front panel of your CR2 unit (spring off bezel and undo 4 screws).
12. Replace the front panel with the supplied part, and secure with the remaining 4 screws, (as per the rear panel).
13. Replace the front bezel.

3.3 Upgrade Kit 2 Installation Instructions

1. Power down the CR2 unit and disconnect all cables.
2. Remove the back panel of your CR2 unit (spring off bezel and undo 4 screws).
3. Carefully remove the existing CR2 circuit board.
4. Using a slim tool and working carefully from both ends of the chip, remove the old PIC/ROM from the existing circuit board, taking note of its orientation.
5. Ensuring the divot on the PIC/ROM matches the indent printed on the circuit board, insert the new CR3 PIC/ROM into the old/existing, circuit board **being very careful to line up all pins before applying pressure** (See Figure 8 above).
6. Carefully slide your upgraded CR2 circuit board half way into the CR2 Unit's case.
7. Locate the cable and connector on the upgraded CR2 circuit board and remove the tie wrap. See Figure 7 below:

Figure 7

8. Attach the cable's connector to the socket on the CR3Network circuit board. See Figure 8 below:

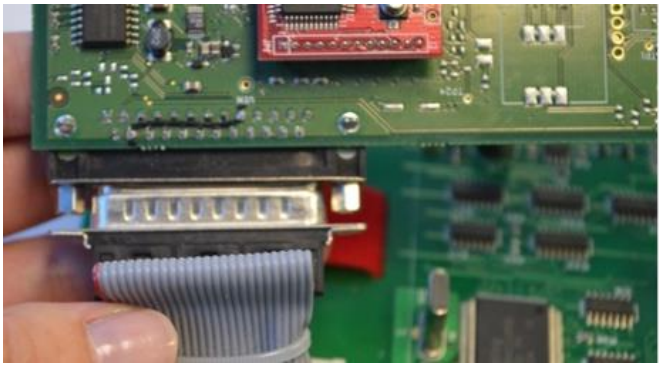

Figure 8

9. Align the boards as shown in Figure 9 below and then slide both boards back into CR2 case together, using the pre-cut slots to keep them apart.

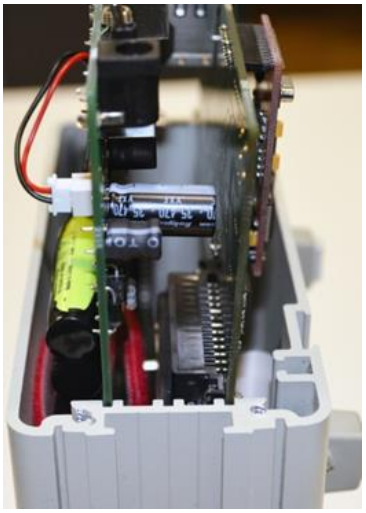

Figure 9

- The CR3Network circuit board should sit below the location of the original CR2 circuit board.

10. After lining up the Ethernet socket with its opening, insert and tighten the two screws through the back panel and into the CR3Network circuit board. See Figure 10 below:

Figure 10

Note: Make sure that you are careful when putting the boards into the case as they are easily damaged.

11. Replace the back panel with the supplied part, and secure with the remaining 4 screws. See Figure 11 below:

Figure 11

12. Replace the bezel.
13. Remove the front panel of your CR2 unit (spring off bezel and undo 4 screws).
14. Replace the front panel with the supplied part, and secure with the remaining 4 screws, (as per the rear panel).
15. Replace the front bezel.

4 Software

4.1 Synergy Pre-requisites

Synergy software required:

The CR3 will only work with Synergy V1.6.2 or later.

Note: CR3 is not validated for use in CFR21 Part11 compliant systems.

- If you do not have this version (or later) you will require a software upgrade before installing the CR3.
- For use with Control you will need Synergy V1.7.0 or later.

4.2 Instructions for Software Installation

- Use the supplied disc, cable and manual for full installation information.
- Use the **SR2 Network Configuration Tool** in the **EMS Remote Management Tools** or **Synergy Remote Management Tools** or download the tool from:
- www.supportftp.hanwell.com/Utilities/SRNetworkConfig.zip, for Network settings. Further information is available at www.synergyhelp.co.uk or www.help.emsprocloud.com

5 Contact Hanwell Solutions

UK Customers

Hanwell Solutions Limited

Pendle House

Jubilee Road

Letchworth

Hertfordshire

SG6 1SP

Tel: 01462 688070

Email: sales@hanwell.com

Web: www.hanwell.com

For Technical Support

Tel: 01462 688 078

Email: support@hanwell.com

EU & Overseas Customers

Please contact your local Hanwell Solutions Ltd distributor.

A list of distributors is available at: www.hanwell/global-distributors

Intentionally Blank


Hanwell
Ultimate peace of mind
Ellab
Part of the
Ellab Group