

Replace RFI Filter on Enclosure Size C2 Drives

525–690 V

1 Introduction

1.1 Overview

The RFI filter has been redesigned to a smaller design. It fulfills the H2/H5 performance required by the drive.

N O T I C E

QUALIFIED PERSONNEL

Only a Danfoss trained, skilled technician is allowed to rework the drive.

1.2 Safety

⚠ W A R N I N G ⚠

DISCHARGE TIME (15 MINUTES)

The drive contains DC-link capacitors, which can remain charged even when the drive is not powered. High voltage can be present even when the warning indicator lights are off.

Failure to wait 15 minutes after power has been removed before performing service or repair work can result in death or serious injury.

- Stop the motor.
- Disconnect AC mains, permanent magnet type motors, and remote DC-link supplies, including battery back-ups, UPS, and DC-link connections to other drives.
- Wait 15 minutes for the capacitors to discharge fully before performing any service or repair work.
- Measure the voltage level to verify full discharge.

1.3 Items Supplied

Table 1: Overview of Kit Content

Quantity	Description	Code number
1	C2 RFI filter for class A, group 2	130B0268
1	Mains wire assembly	130B9839
1	Stay bolt M5 x 64 mm	130B3989
2	Screw M4 x 7 mm	681x9161

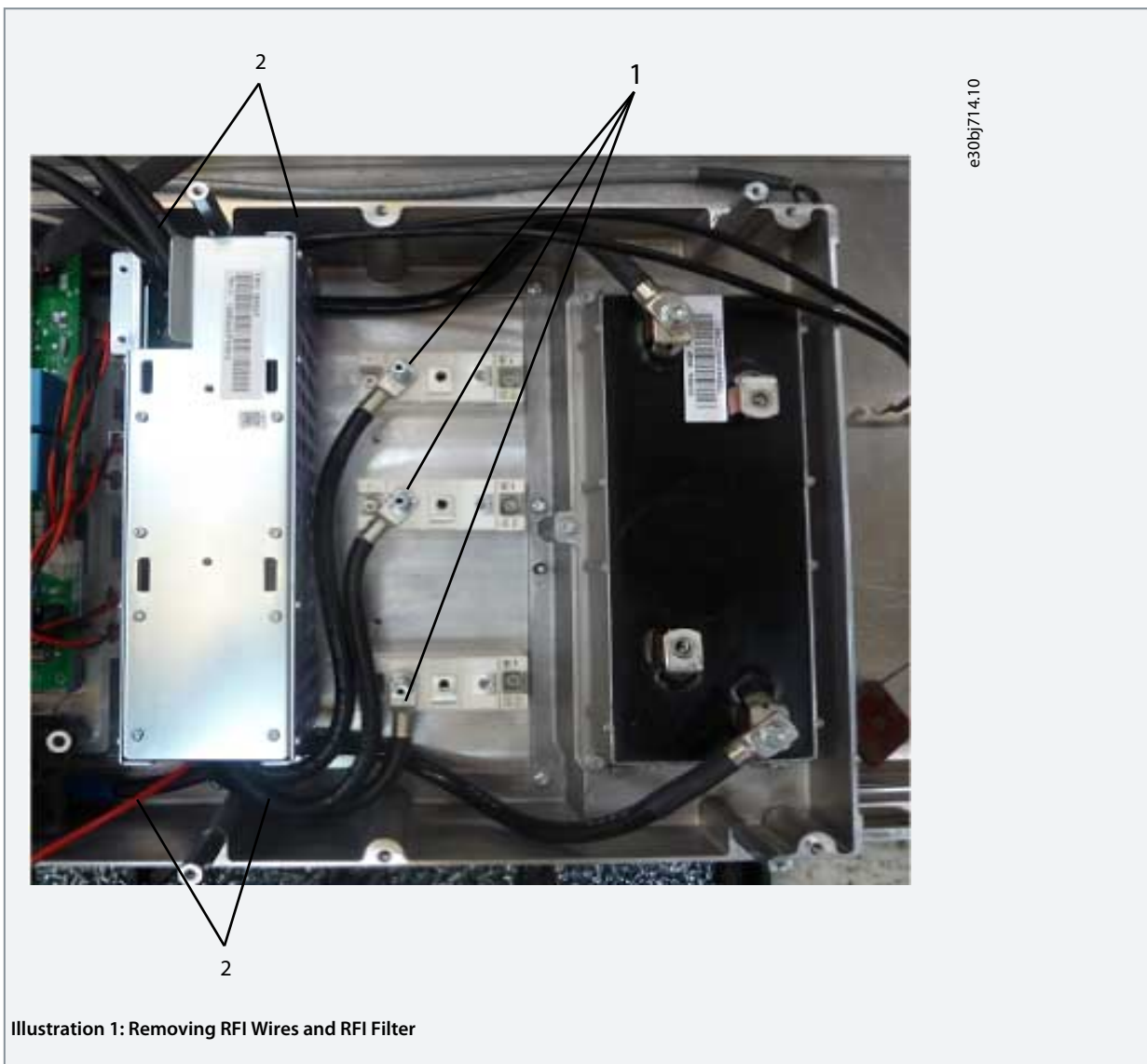
2 Installation

2.1 Removing the Old RFI Filter

Ensure that the drive is fully discharged, see [1.2 Safety](#).

Procedure

1. Remove the control card plate.
2. Remove the shield plate covering the power card.
3. Remove the power card.
4. Remove the mounting plate for the power card and be sure to keep the foil in position.
5. Disconnect the RFI filter at the mains terminal.
6. Remove the inrush card.
7. Remove the 3 wires from the RFI filter on the SCRs, see positions 1 in [Illustration 1](#).

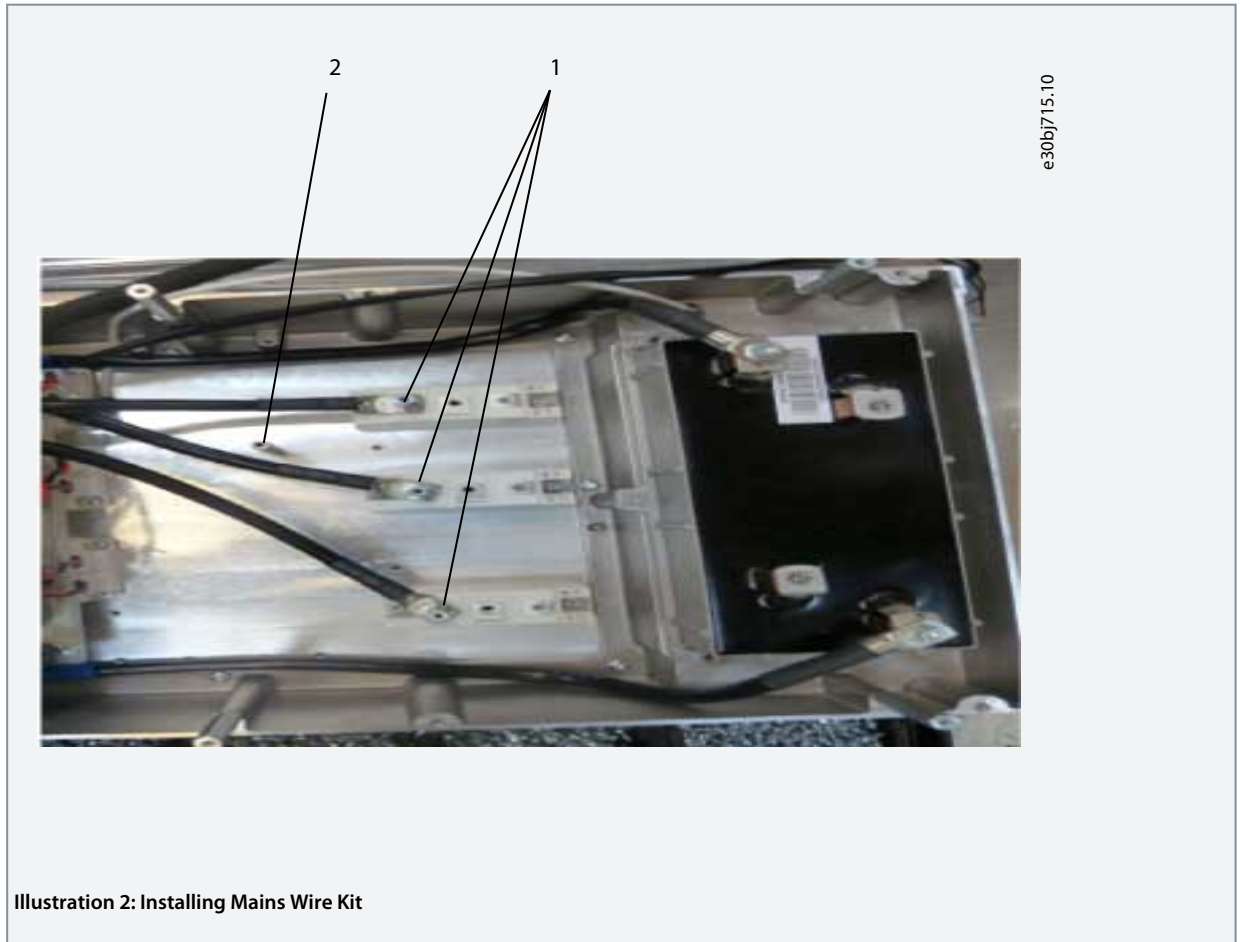


8. Remove the RFI filter, see positions 2 in [Illustration 1](#).

2.2 Installing the New RFI Filter

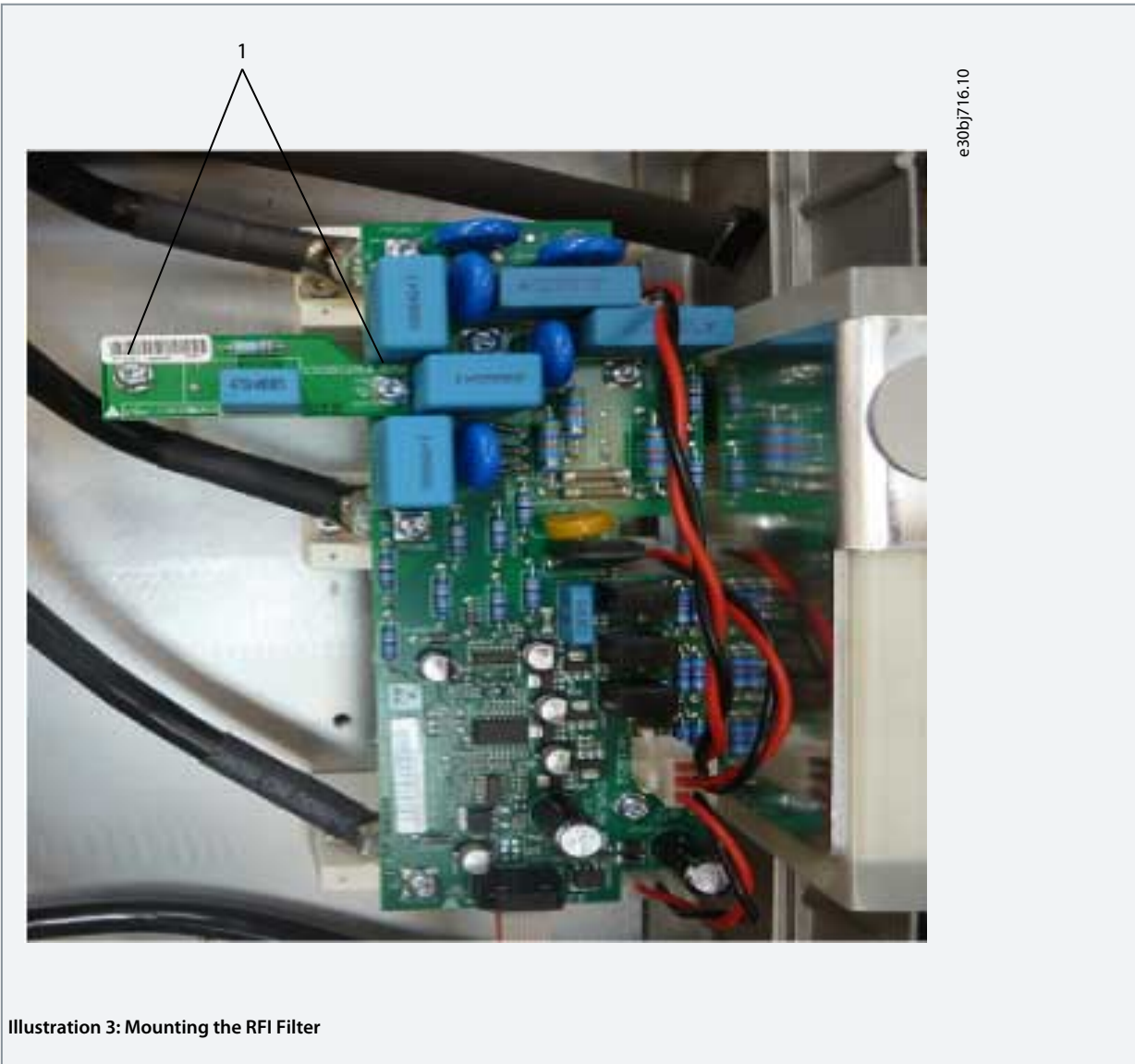
Procedure

1. Mount the 3-phase mains wire kit (130B9839) between the mains terminal and the SCRs and tighten to 5 Nm (44.25 in-lb), see positions 1 in [Illustration 2](#).



2. Mount the stud (130B3989) in the appropriate thread hole and tighten to 3.2 Nm (28.3 in-lb), see position 2 in [Illustration 2](#).
3. Remount the inrush card and tighten to 6 x 1.5 Nm (13.3 in-lb).

4. Mount the RFI filter (130B0268) between the stud and K1801 on the inrush card using the 2 screws (681x9161) and tighten to 1.5 Nm (13.3 in-lb), see positions 1 in [Illustration 3](#).



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Illustration 3: Mounting the RFI Filter

5. Reassemble the drive.

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