

## IMPORTANT INFORMATION

### AC30 Frame K Fan Voltage Selection

#### AC30K INTERNAL FAN SUPPLY SELECTION

The AC30K internal cooling fan supply voltage must be configured before powering up the drive. Failure to configure the fan supply correctly could potentially damage the drive. The fan supply wiring links are configured according to the drive supply voltage.



The drive is shipped with the fan voltage set for 380 – 420V ac

#### 1. FAN SUPPLY SELECTION PROCEDURE

##### 1.1. DISCONNECT THE SUPPLY TO THE DRIVE

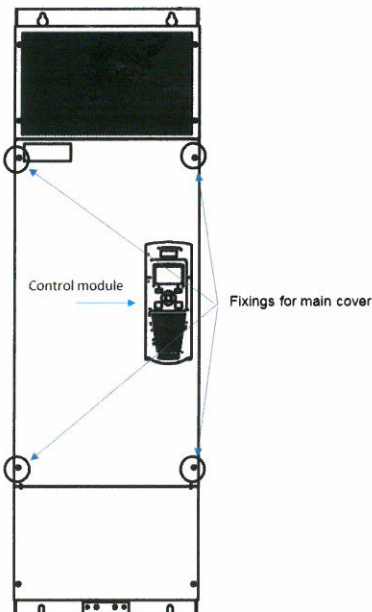


**Warning :** Ensure that the drive three phase supply is disconnected.

Wait 15 minutes following removal of the supply for the internal capacitors to discharge.

##### 1.2. REMOVE THE CONTROL MODULE AND MAIN COVER

Remove the control module by first removing the terminal cover and op-station, then unscrew the fixing which secures the control module to the power stack. Refer to Chapter 4 of the manual for more information.



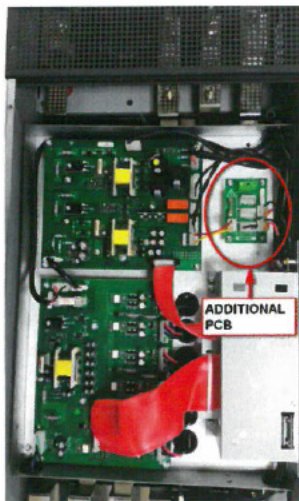
Remove the main centre panel and associated fixing screws to access the fan voltage selection wiring links.

### 1.3. DETERMINE FAN SUPPLY SELECTION METHOD

There are two ways of configuring the fan supply voltage which depends on when the drive was manufactured. With the control module and main cover removed, check which method is appropriate by looking at the printed circuit board (PCB) assemblies located behind the main cover.



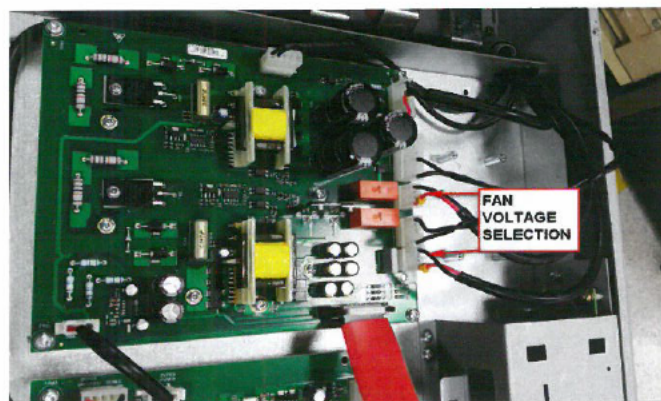
Method A refer to section 2



Method B refer to section 3

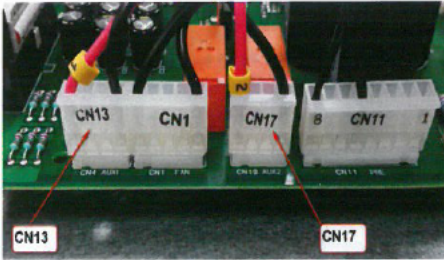
### METHOD A: CONFIGURE THE FAN SUPPLY WIRING LINKS

Configure the fan supply according to the drive supply voltage as shown below. Ensure that connectors CN13 and CN17 are correctly located according to the drive 3 phase supply voltage

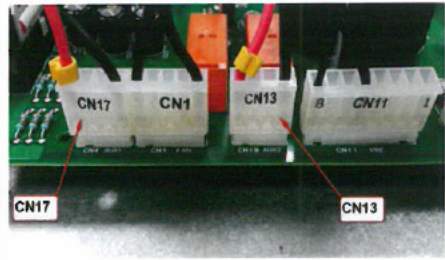


Fan voltage selection  
Connectors  
CN13 & CN17

Supply voltage	Cable CN13	Cable CN17
380-420Vac	CN13 → CN4(AUX1)	CN17 → CN19 (AUX2)
440-480V ac	CN13 → CN19 (AUX2)	CN17 → CN4 (AUX1)



380 – 420V AC CONNECTOR LOCATION

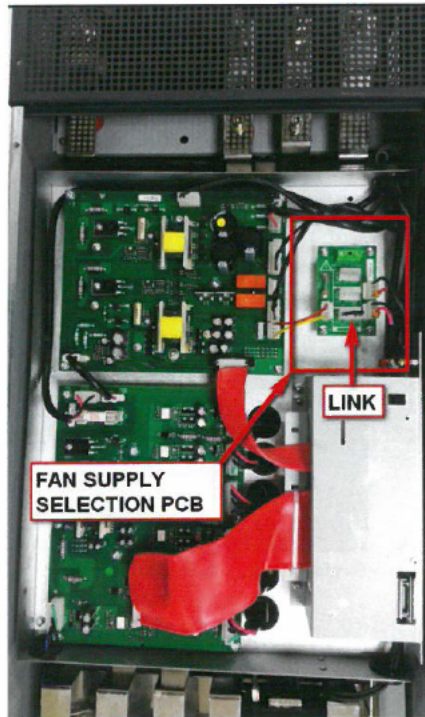


440 – 480V AC CONNECTOR LOCATION

Proceed to section 4 (Re-assemble) after configuring fan supply wiring links.

### 3. METHOD B : CONFIGURE THE FAN SUPPLY WIRING LINK

Locate the fan supply PCB as shown below.

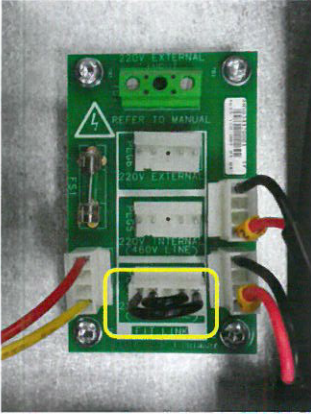


Fan voltage selection PCB and link location

Ensure that the link is correctly located according to the **drive** supply voltage.

AC30K drive supply voltage **380-420VAC**:

Fit link to PLG4 as shown



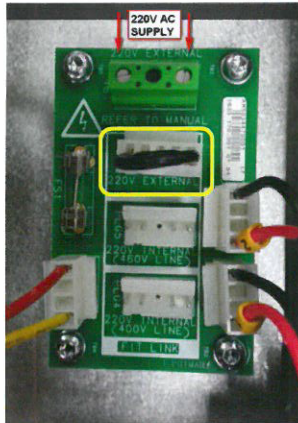
AC30K drive supply voltage **440-480VAC**:

Fit link to PLG5 as shown



AC30K drive supply voltage **510 – 650VDC**:

Fit link to PLG6 and connect 220V AC supply\* as shown -



\*Note: auxiliary fan supply rating 220V single phase 2A rated.

Proceed to section 4 (Re-assemble) after fitting the link in the appropriate location as shown above.

#### 4. RE-ASSEMBLE

- Re-fit the AC30 frame K centre cover and associated fixing screws
- Re-fit the control module and tighten the associated fixing.