



PSU2412 Additional Circuit Breaker Kit (KT0546)

Installation Instructions

General Description

The PSU2412 Additional Circuit Breaker Kit is used to add another Circuit Breaker to a VIGILANT PSU2412 Power Supply. Up to two kits may be fitted.

These instructions cover the fitting and connection of the Circuit Breaker. They do not cover details of any necessary changes to the system configuration or other hardware.

Contents of this Kit

Item	Qty	Description
LB0642	3	Label For New Circuit Breaker Lead (two pre-printed, one blank)
LM0133	1	Loom, Red Auto 158, 250mm long, M4 Lug to M5 Lug.
LM0136	1	Loom, Red Auto 158, 1725mm long, M5 Lug one end.
LM0390	1	Loom, Black Auto 158, 1500mm long, M4 Lug one end.
LT0560	1	These Installation Instructions.
SC0189	2	Machine Screw, PH Pozi, 6/32 UNC x 1/4 long, ZP.
SU0099	1	Cable Tie Holder, Adhesive Based.
SW0142	1	Circuit Breaker, DC, 50A, 65V.
WA0032	2	Washer, Flat, 1/8 ZP.

Circuit Breaker Installation

Follow these steps to install an additional Circuit Breaker in a PSU2412.

1. Unplug the PSU2412 from mains power.
2. Remove the PSU2412 from the rack cabinet.
3. Remove the PSU2412 cover.
4. Remove screws, nuts, washers and rubber bung from the spare Circuit Breaker position where you intend to fit the additional Circuit Breaker (see Figure 1). These are no longer required.

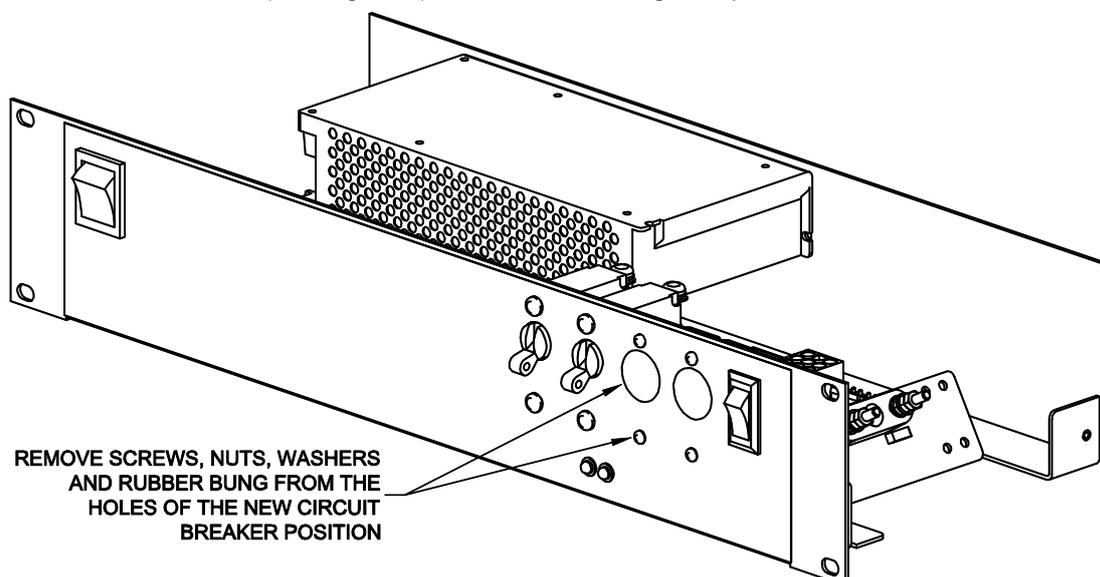


Figure 1 – Location of additional Circuit Breaker position(s)

5. The new Circuit Breaker in the kit is supplied pre-wired as shown in Figure 2 below. Please check before fitting.

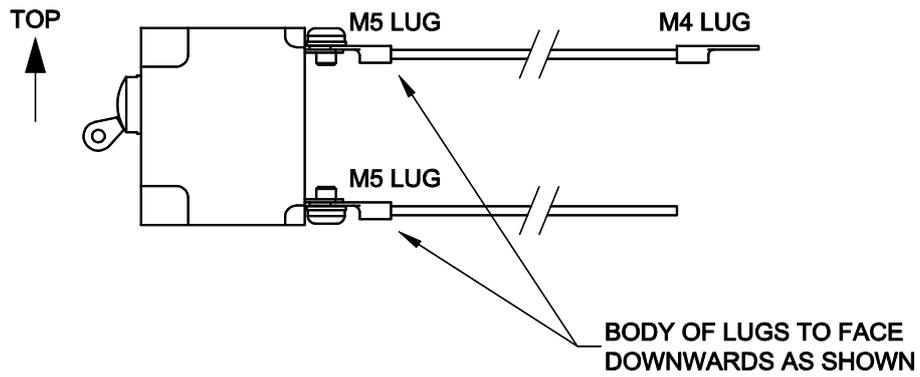


Figure 2 – Pre-wired Circuit Breaker assembly

6. Mount the new Circuit Breaker in the PSU2412 as shown in Figure 3 below. The shorter lead with two lugs goes uppermost.

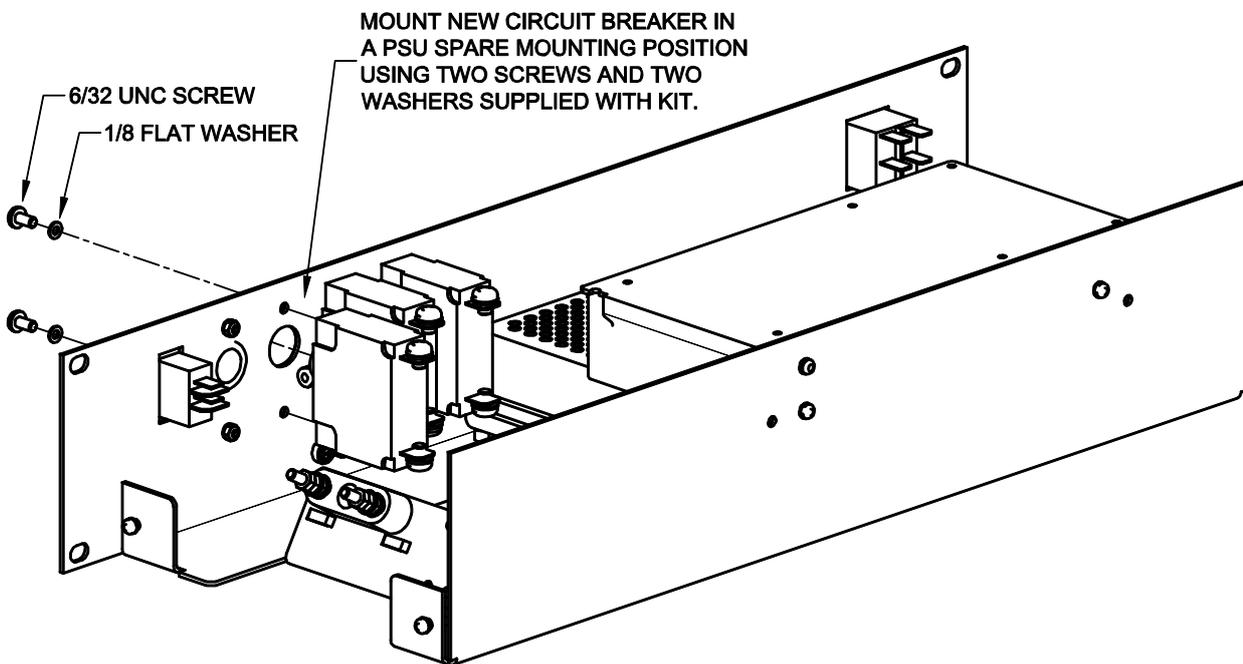


Figure 3 – Mounting of new Circuit Breaker

7. Attach the newly-fitted Circuit Breaker leads and additional black lead to the PSU2412 as shown in Figure 4 below. Label the red lead as appropriate (pre-printed labels for EWIS racks 3 and 4 are supplied with the kit, alternatively use the blank label for other applications).

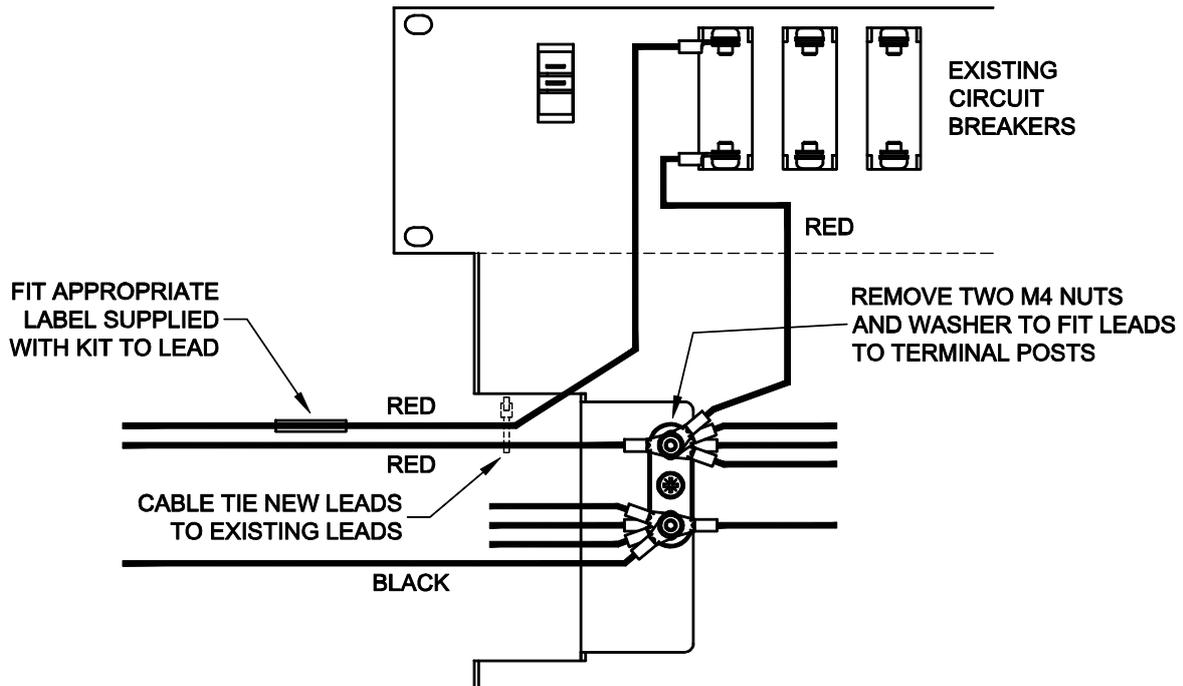


Figure 4 – Attachment and labelling of additional Circuit Breaker leads

8. **IMPORTANT!** Stick an adhesive cable tie base to the inside of the PSU cover as shown in Figure 5 below (to prevent any possibility of a short with the cover).

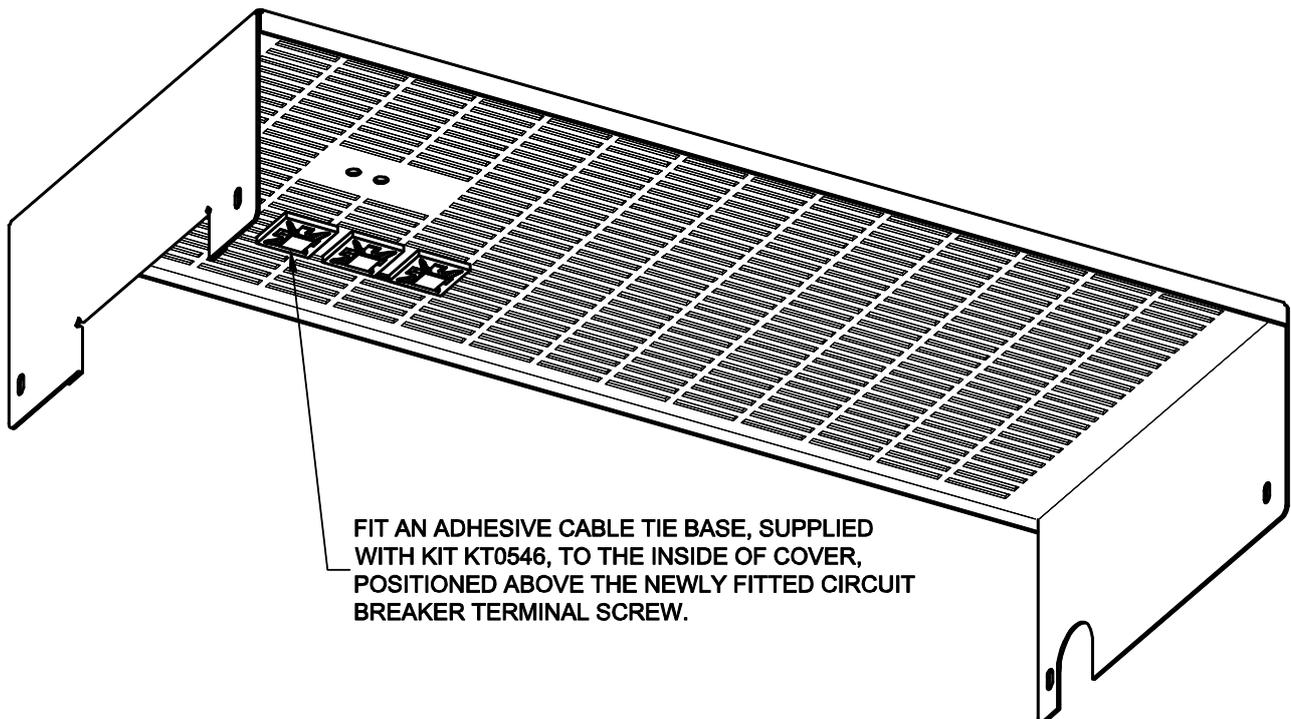


Figure 5 – Positioning of adhesive cable tie base to prevent short circuits

9. Re-fit the cover to the PSU2412 and re-mount the PSU2412 in the rack cabinet.
10. Connect the long leads from the new Circuit Breaker to the load (e.g., new EWIS Amp Rack) as required.