

# INSTALLATION INSTRUCTIONS

## NH Distribution Board TP to SP Conversion Kit (NHSPAK)

### Safety Note

This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person.

Turn off all power supplying this equipment before commencing work on or inside the distribution board. Test with appropriately rated test equipment to ensure power is off.

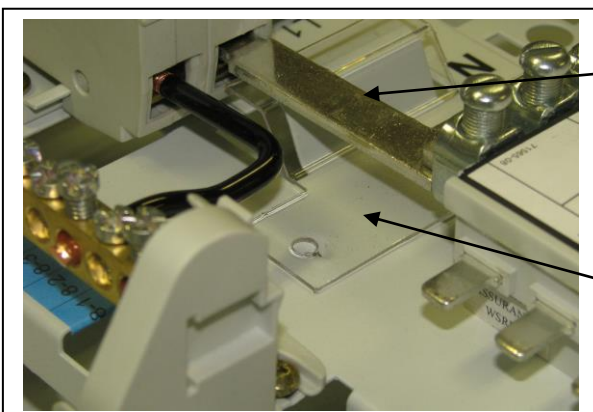
To avoid swarf and other foreign objects entering the enclosure always remove gland plates to cut cable / trunking entries or remove the interior pan assembly.

Replace all devices, blanks, doors and covers before turning the power on.

Failure to observe the above could result in serious injury or even death.

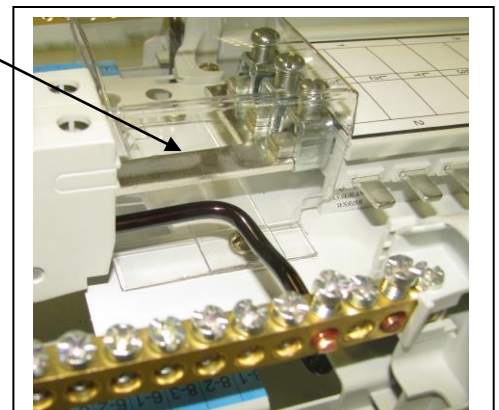
### INSTALLATION INSTRUCTIONS

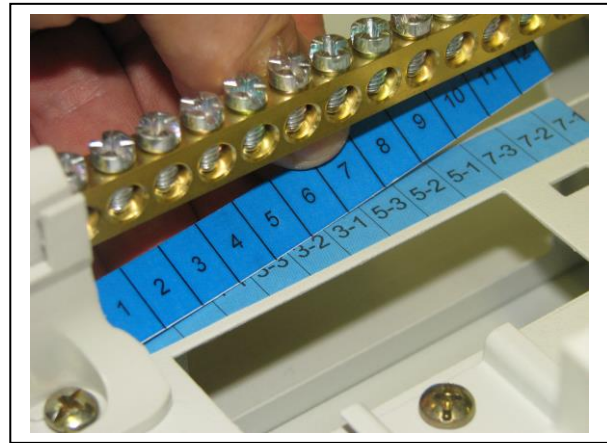
1. Position three cage terminal clamps loosely over bottom set of busbar extension coppers.
2. Fit the 'TP to SP' copper link into the terminal clamps, depending on board either above or below busbar connections to give best fit of link.
3. Finger tighten cage terminal clamps.
4. Fit two-pole isolator to din rail.
5. Align the 'TP to SP' copper link with the left hand isolator terminal then using 2 screws, secure din rail to the mounting plate.
6. Fit insulated copper rod between right hand isolator terminal and neutral terminal bar (2 supplied to suit different versions of boards, use as required)
7. Remove cage terminal clamp from main neutral moulding assembly. This connection is no longer required.
8. With all connections correctly aligned, fully tighten all connections.
9. Fit shield over din feature then fit polycarbonate shield over TP to SP link etc securing both shields with 2x screws.



**Note:**  
Orientation  
of link

**Important**  
Din rail  
insulation  
**MUST** be  
fitted





Over label Way labels and neutral bars

10. Over label the terminals on left and right side of the internal busbar cover moulding and to the external front shield. These will require cutting to suit the particular size of board.

i.e. 6 Way TPN converted to SPN use 1-9 & 10-18  
 16 Way TPN converted to SPN use 1-24 & 25-48

- 11. Over label Earth and Neutral bars with numbers provided.
- 12. Remove the lower (72mm wide) knockout from front shield.
- 13. Fit two MCB blanks (2x 18mm) to left-hand side of slot.

**Note**

- Before fitting all shields and the front cover, check the tightness of **all** connections, including factory made connections.

**DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**

TERMINAL	Max Cable Capacity	TORQUE Nm
Terminal bar screws	16mm <sup>2</sup>	1.7Nm
Terminal cage screws (Bottom of Busbar)	N/A	6Nm
Terminal screws (Top of Isolator)	N/A	2.3Nm
Terminal screws (Bottom of Isolator)	50mm <sup>2</sup>	2.3Nm

