

**POWER  
POLE**

INSTALLATION GUIDE

**P**OWER POLE is designed to allow the installer to comply with current IEE Wiring Regulations. You should satisfy yourself, however, that the regulations are being met before commencing any installation.

Two versions of the Power Pole are available:

- **PP18** which has a composite aluminium/PVCu body
- **PP28** whose body is of solid aluminium.

As there are differences in installation method, please read through all of this guide before starting the installation.

## Installing a Power Pole between floor and conventional solid ceiling

1. Ensure that pole position will enable the ceiling jacking plate to locate against a ceiling joist, concrete ceiling or other solid support. Do not rely on plaster-board or similar to take the jacking thrust.
2. At selected pole position measure floor to ceiling height accurately, (remove both lids and set aside before cutting). Deduct 50mm from this measurement for the **PP18** pole or 65mm if using the alloy unit, and cut the power pole body carefully to length. Note that the cut end will fit into the floor boot and must be cut square. A fine toothed hacksaw is suitable, and edges should be de-burred.

3. Before screwing the floor boot to the floor, remember that if the pole is to be fed from under floor services, firstly remove the required cutouts in the boot and drill any access holes in the floor.

4. Insert the power pole body into the boot and raise vertically. Locate ceiling plate onto jacking screw and adjust upwards to temporarily hold pole in position. Using a spirit level adjust position of power pole in both planes until it is truly vertical.

5. With a pencil, scribe around the ceiling plate and mark through screw hole positions. Now lower the jacking screw to clear the ceiling, remove pole from floor boot and set aside.

6. The ceiling plate can now be permanently fixed to the ceiling with screws if into a ceiling joist, or into drilled plug fixings if in concrete - or masonry.

7. **For PP18 only**  
Re-erect the pole locating the square end of the drive screw into the ceiling plate socket. Now tighten the bottom adjustment nut until pole is secure. Rotate the top nut upwards to lock against the top guide bracket. Do not overtighten either nut, but sufficient to take up all slack.

- 7A. **For PP28 only**  
With the **PP28** alloy pole adjust the single jacking nut until the jacking screw is securely locked into the ceiling plate. Now tighten the M6 slotted hexagon screw and also the slotted M4 screw in the ceiling plate socket. This will securely lock the whole assembly.

8. Attach the free end of the earth link to the top ceiling plate using M4 x 5,0 screw and lock washer which is attached to the plate.

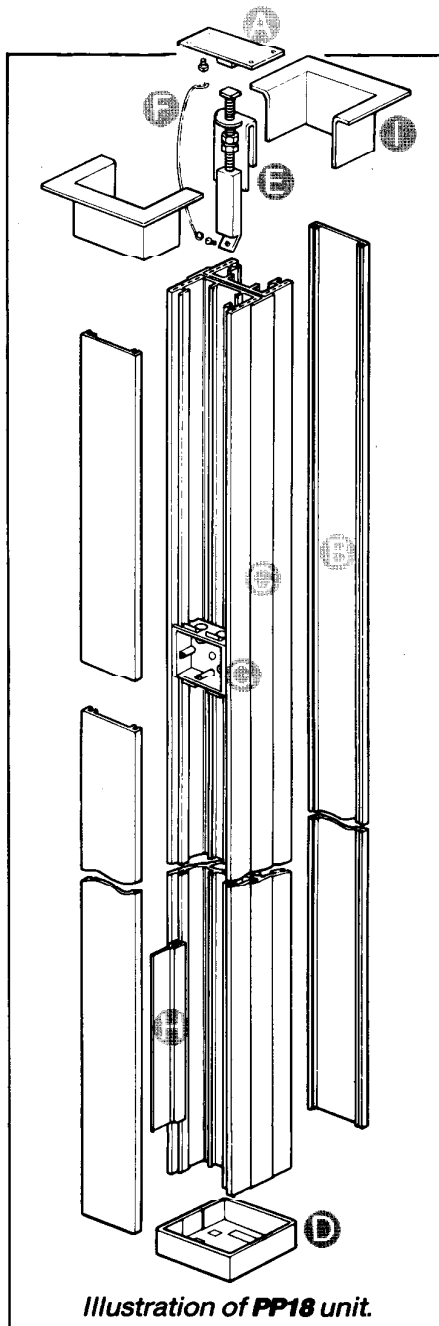


Illustration of PP18 unit.

**KEY:**

- (A) = ceiling jacking plate
- (B) = compartment lids
- (C) = power pole body
- (D) = floor boot
- (E) = jacking screw
- (F) = earth link
- (G) = outlet box
- (H) = divider
- (I) = top shroud

**IMPORTANT**

Check that all earth connections are secure and that continuity is maintained for the PP18. An earth wire from the incoming mains supply should be attached to the M4 earthing post on the tail end of the jacking assembly. A spare M4 nut and washer is attached for this purpose.

With the PP28 alloy pole, the earth wire from the incoming mains supply should be connected to the earthing post at the top of the alloy pole.

9. Positions can now be selected for the various outlet boxes and they can be clipped into place and, if necessary, retained in position by short pieces of divider. If segregation of services to any outlet is required, the divider should now be clipped into position.

10. Wiring can now be drawn into the pole from either under floor or above ceiling into the outlet boxes, ready for connecting accessories.

11. Sections of the outer lid should now be cut to size, and starting at the bottom, work upward towards the top of the pole. The top section of lid must be cut to finish 95mm below the ceiling face (or 45mm short of the top of the power pole body), with the PP28 alloy pole 30mm instead of 45mm.

12. After fitting all lid sections the two halves of the top shroud can be offered up and clipped over the pole body up against the ceiling.

13. Accessories can now be connected and screwed to the outlet boxes.

**14. Fitting Extension Piece (Alloy PP28 only)**

When using the extension piece (PPE1) a maximum ceiling height of 4.6m can be accommodated by using the full extension.

For heights of less than 4.6m the extension piece should be shortened accordingly. It should be cut square with a suitable hacksaw. Using the cut to length extension piece in place of the jacking screw, it can now be installed as described in Paras. 3,4,5,6 and 7A. Attach the free end of the earth lead attached to the power pole to the marked earthing point on the extension piece, and tighten securely. Finally tighten the M4 slotted screw in the ceiling plate to lock the extension piece.

**Installing a Power Pole where it passes through a suspended ceiling**

1. If the suspended ceiling is already in place, temporarily remove sufficient ceiling tiles to allow room to insert the pole and space to allow the electrician to work.

2. Follow exactly the same procedure as previously for cutting the body, fixing the ceiling plate, and for jacking up the pole and attaching earth leads.

3. Position outlet boxes as before, draw in the wiring and fit the cut to size lid sections finishing at a position 95mm below the suspended ceiling face. Replace the ceiling tiles and cut neatly around the power pole body. (Spare lengths of lid can be fitted to the section of pole in the hollow ceiling space if required.)

4. The two halves of the top shroud can now be clipped into position up against the ceiling tiles.

**IMPORTANT**

Check again that all earthing connections are secure and that continuity exists.