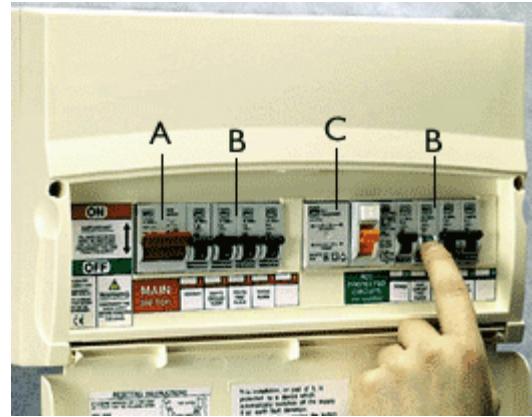


# Your Fusebox

A **consumer unit** or **fusebox** is used to control and distribute electricity around our homes.

They usually contain:

- A) Mains switch
- B) Fuses or Circuit Breakers
- C) Residual Current Device



## Mains Switch

The mains switch allows you to turn off the electricity supply to your electrical installation. Some electrical installations have more than one mains switch, for example, if your home is heated by electric storage heaters, you may have a separate consumer unit (fuse box) for them. The consumer unit should be easy to get to, so find out where the mains switch is to turn the electricity off in an emergency.

## Fuses

Rewirable fuses have a piece of special fuse wire running between two screws. When a fault or overload current flows through the fuse wire, it will become hot, and melt when the current goes above an acceptable level. The melted fuse breaks the circuit, disconnecting the faulty circuit.

## Circuit Breakers

Circuit breakers are automatic protection devices fitted in the consumer unit which switch off a circuit if there is a fault. Circuit breakers are similar in size to fuseholders but give more precise protection than fuses. When they "trip", you can simply reset the switch. However, you first need to find and correct the faulty circuit.

## Residual Current Devices

An RCD is a switching device that trips a circuit under certain conditions, and disconnects the electricity supply. If your electrical installation included one or more RCDs, test them regularly. You can do this by following the instruction label, which should be near the RCD. The label should read as follows: 'This installation, or part of it, is protected by a device which automatically switches off the supply if an earth fault develops. Test quarterly (every three months) by pressing the button marked 'T' or 'Test'. 'The device should switch off the supply. You should then switch it back on to restore the supply. If the device does not switch off the supply when you press the button, contact an electrician'. Testing the button every three months is important. However, do not hold the test button for a long period if the device does not trip. If the RCD does not switch off the supply when you press the test button, get advice from a registered electrician.

If your fusebox has a wooden back, cast iron switches, or a haphazard mixture of fuses, it is likely that it dates back to before the 1960s and will need to be replaced.