

Electrical Fitting Instructions

Isolate the power supply at the consumer unit circuit breaker. Verify that the power is off.

These products must be installed in accordance with the latest building regulations. Contact a qualified electrician if in any doubt.

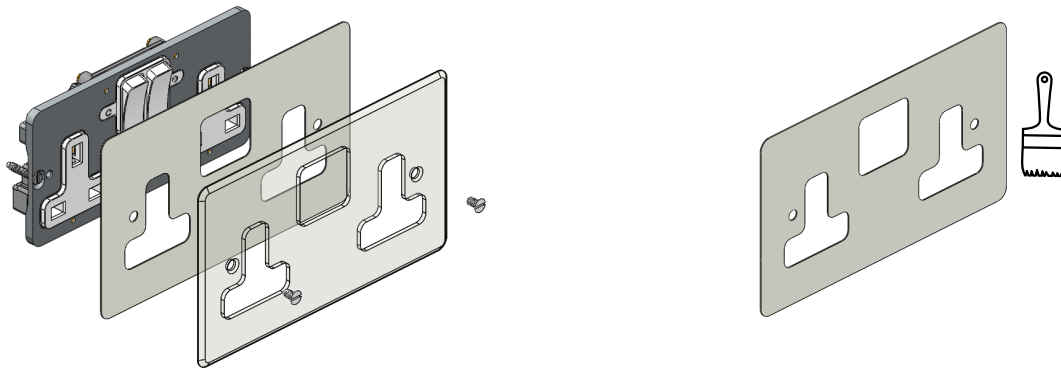
Fitting

Avoid fitting electrical fittings to wet plaster or paint. The wall surface around the mounting box should be fully finished and in excellent condition to give best results.

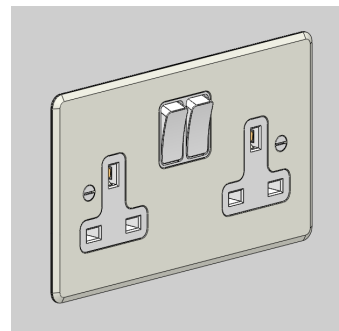
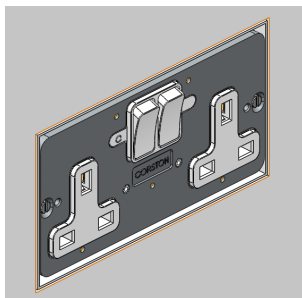
Check that the mounting box type is suitable for the electrical components, and that the mounting lugs are in the correct position for the fitting. The mounting box should be flush to the wall, without a flange or lip. A 35 or 45mm deep mounting box is recommended. 45mm boxes are available on the Corston website.

Socket & modular unit fitting

The component is supplied assembled with fixings in place. Un-screw and remove the front plate (and paper for Perspex versions) If fitting Perspex plates, paint the paper with two coats of the chosen wall paint. Or use the template to cut wallpaper if wallpaper is the final finish. Connect the component to the wiring circuit.



Screw the finished silver coloured chassis into the mounting box until the component sits flush with the wall surface. It is important to get this level correct, so that the front plate creates the correct tension with the wall when it is fitted.



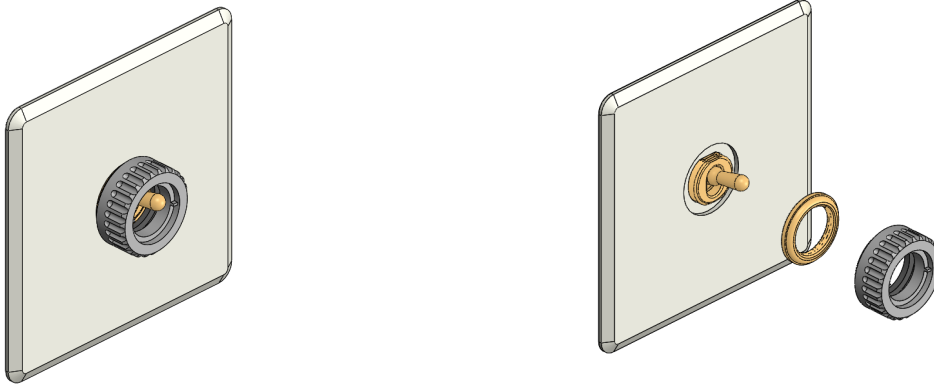
Screw the front plate to the electrical component, (including the paper layer with Perspex versions)

The tension of the front plate should hold the switch in place against the wall. If too loose or too tight, remove the front plate and adjust the chassis screws. Do not over tighten the front plate, which could lead to deformation.

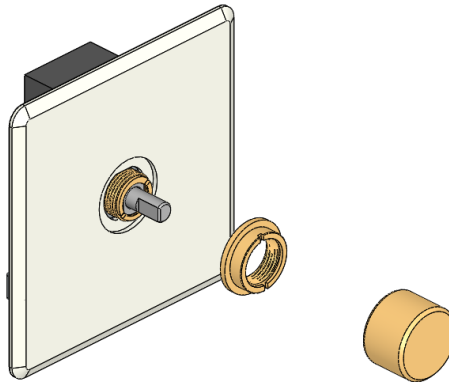
Electrical Fitting Instructions, Cont.

Light Switch Fitting (Screwless)

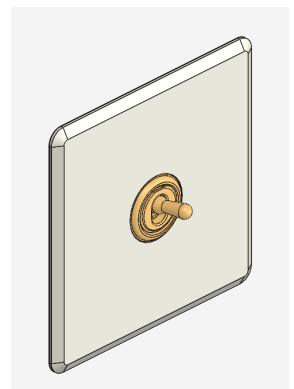
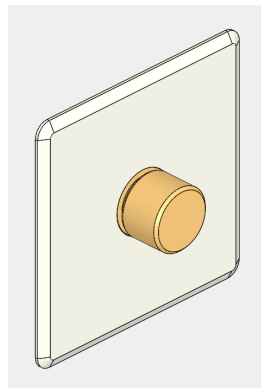
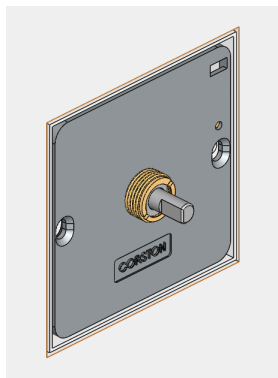
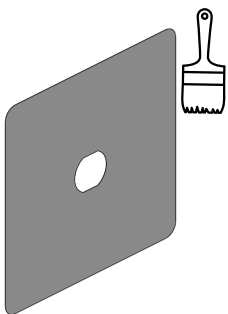
The component is supplied assembled with fixings in place. Light switches have a retaining ring which needs to be un-screwed to remove the front plate. Remove the Toggle retaining ring by using the tool supplied with your order. -Press the tool into the ring and rotate, so that the washer grips by friction.



For Dimmer switches, pull off the dimmer knob. Then unscrew the retaining ring by hand or gently using a flat blade screwdriver.



Remove the front plate (and paper for Perspex versions) If fitting Perspex plates, paint the paper with two coats of the chosen wall paint. Or use the template to cut wallpaper if wallpaper is the final finish. Connect the component to the wiring circuit.



Fit the front plate using the supplied tool to grip the toggle collar, and check the tension to hold the switch in place. If too loose or too tight, remove the front plate and adjust the chassis screws. Do not over tighten the front plate, which could lead to deformation.

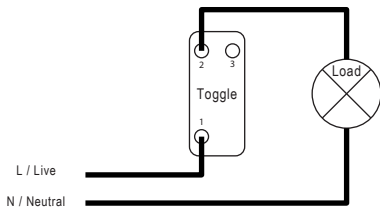
Example Wiring for Toggle & Dimmer Switches

Example wiring diagrams have are shown for common installations. Consult an electrician if in any doubt.

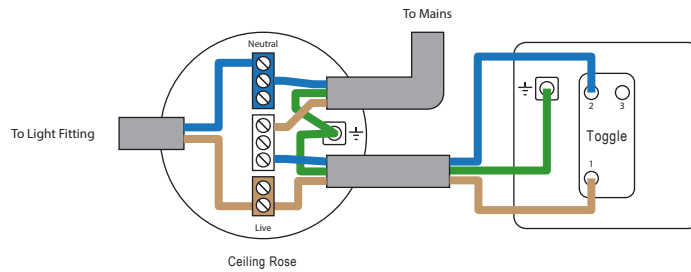
Retractive switches must be used when switches are used with a dimmer on the same circuit

Connect the wiring as shown in the diagrams below, for each type of installation. When finished there should be no exposed wire. The connections should be secure and tight. Earth sheathing should be used on any exposed earth wire. The switch assembly should push back into the mounting box without forcing or trapping any wires.

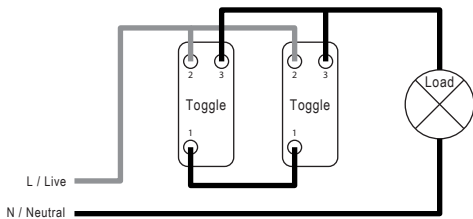
Toggle switch 1 way Diagram



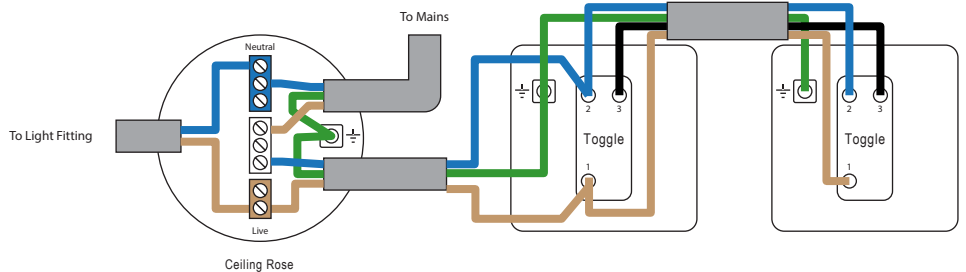
Toggle switch 1 way actual wiring example



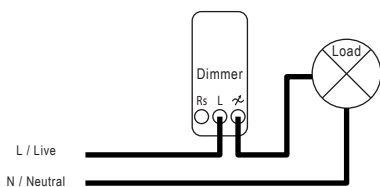
Toggle switch 2 way Diagram



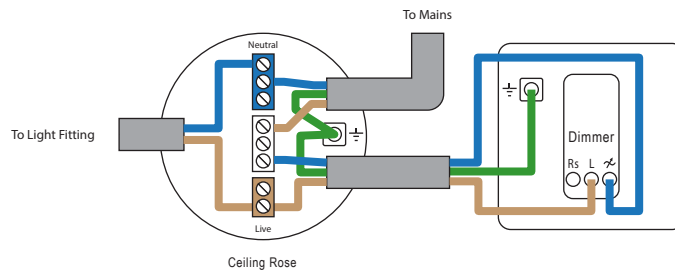
Toggle switch 2 way actual wiring example



Dimmer switch 1 way Diagram



Dimmer switch 1 way actual wiring example

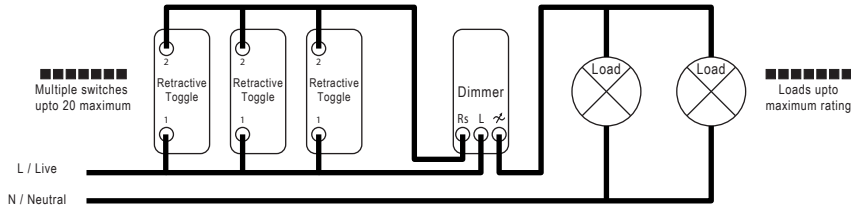


The Dimmer must always be connected to the Line side of the load. Two or more dimmers must not be connected in parallel or series to control the same load from two different locations.

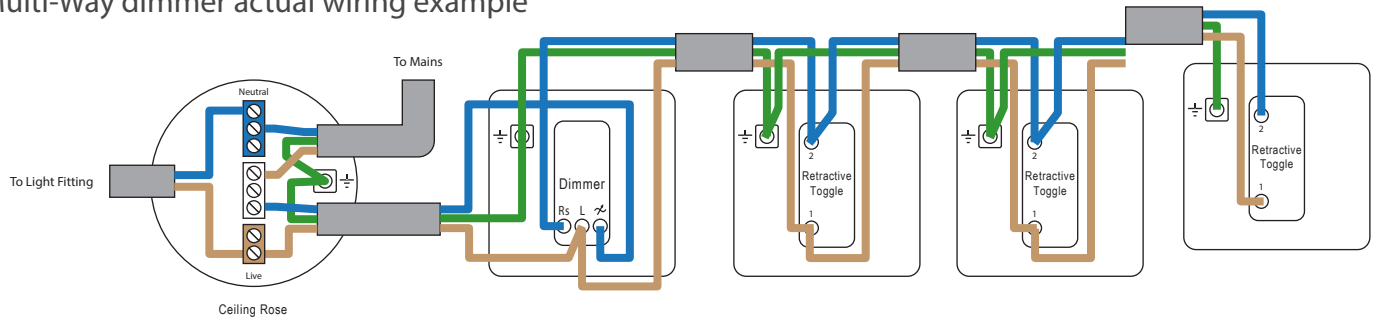
Example Wiring for Toggle & Dimmer Modules , Cont.

Multi-Way Dimmer Diagram

Two dimmers cannot control the same light.



Multi-Way dimmer actual wiring example



The Dimmer must always be connected to the Line side of the load. Multi-way retractive switch or push switch can control up to 20 units for UP/DOWN dim and ON/OFF function. Two or more dimmers must not be connected in parallel or series to control the same load from two different locations.

Corston Dimmer Module

The Corston dimmer uses digital chips to control dimming of LED's and Incandescent bulbs. The dimmer has a memory function so the lights turn on at the same brightness as they were last used. The dimmer has trailing edge and leading edge modes which treats the bulbs in the best way to ensure long life. It auto-senses which mode is best, but also can be easily programmed. Corston retractive toggle switches must be used in conjunction with dimmers instead of normal two way switches.

Features

- Suitable for 1-way or multi-way full digital dimming and switching
- Minimum load down to 3W of capacitive or resistive load, including dimmable LED lighting and incandescent lighting.
- Trailing and leading edge operation. There is an LED back light to indicate the dimming mode
- Soft-start operation, to extend bulb life
- The minimum brightness level can be programmed
- Built-in thermal cut-off and short circuit protection
- Complies with IEC EN60669

Usage

Setting the minimum brightness. This is important to prevent LED bulbs from flickering at very low levels.

With the lamp ON, - Press and hold dimmer knob for 3-5 seconds. It will then appear at half brightness. Release the knob and set the desired minimum level. Press the knob to save the setting.

Mode Setting

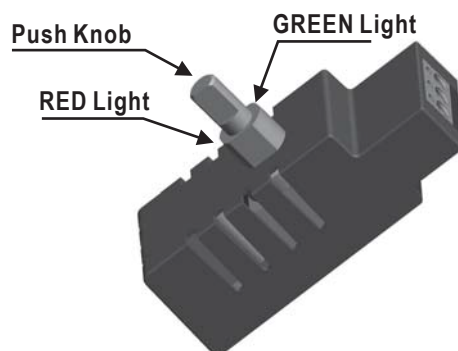
Remove the dimmer knob, so that you can see the clear plastic collar on the dimmer. It includes a coloured LED which shows the mode.

Lamp in OFF state. Hold in the switch for 3-5 seconds. The indicator light will flash. Turn the knob left or right to select the correct mode where the colour changes as below;

GREEN + RED LIGHT = Trailing edge mode

RED LIGHT = Leading edge mode

GREEN LIGHT = Auto sensing mode which uses trailing or leading edge modes. It defaults to Trailing edge



Corston Dimmer Module , Cont.

Warning & Installation information

Electric shock hazard. Hazardous voltage maybe present at the output of the dimmer despite setting the dimmer to zero brightness level. Look out and tag the input circuit before accessing the wiring connections. Failure to follow this warning can result in death or serious injury.

The dimmer should be protected by a 6A or up to 16A maximum circuit breaker.

The Dimmer must always be connected to the Line side of the load.

Multi-way retractive switch or push switch can control up to 20 units. Two or more dimmers must not be connected in parallel or series to control the same load from two different locations.

When connected with steel-core transformers, Only Leading Edge mode (LE) should be used, TE mode cannot be used in this case

Multiple compatible loads can be used as long as the total lamp wattage does not exceed the maximum load rating of the dimmer.






Some lamps may exhibit unexpected performance characteristics when cold. Dimming performance should improve after the lamp warms up. Or in case of lamp appears unstable status, it could be changed between TE and LE.

Multi-Gang De-rating

For applications where Dimmers are multi-ganged, derate the maximum load rating of the unit according to the derating table show as below :

Number of Dimmers	Maximum Load per Dimmer
x1	200W
x2	150W
x3	100W



Parameter	Value
Supply voltage & Frequency	220-240V ~ 50Hz
Rating	10-300W: incandescent lamps, high voltage halogen lamps and electronic step-down converter for extra low-voltage incandescent lamps. 3-200W: dimmable LED lamps.
Dimming Technology 	Auto Detect Trailing / Leading edge driven control Also, Leading edge dimming mode can be set by user manually.
Compatible loads for TE auto mode	 Dimmable LED lighting with compatible Electronic Transformers
	 Incandescent lighting, MV Halogen lamps
	 LV Halogen Lighting with electronic transformers
	 LV Halogen Lighting with Iron-core transformers
Operating Temperature	0° - 45°C
Operating Humidity	10 - 90% R.H.
Mounting Centres	85mm UK Pattern Plate