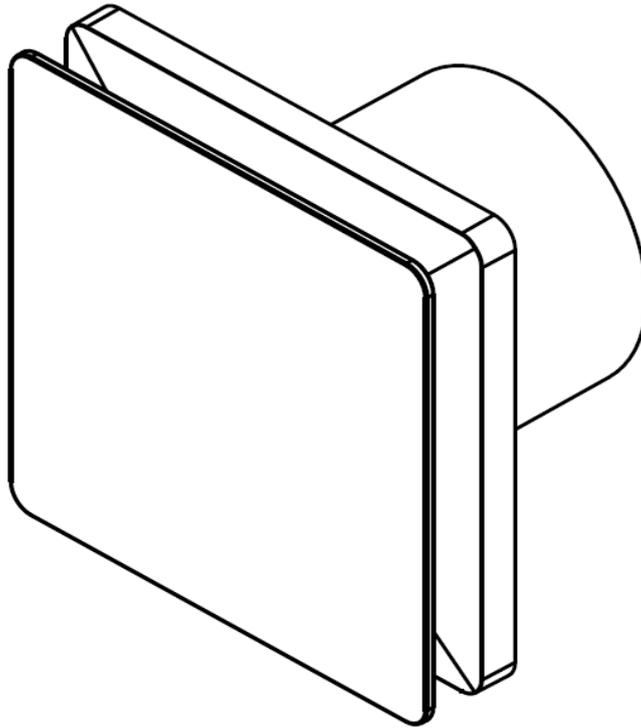


MANROSE[®]

Installation and Wiring Instructions



Black Tiled Fan Range

BLK100S
BLK100T

Black Tiled Fan
Black Tiled Timer Fan

PLEASE READ THESE INSTRUCTIONS IN CONJUNCTION WITH THE ILLUSTRATIONS.
PLEASE SAVE THESE INSTRUCTIONS.

IPX4 UK CA CE

Installation and Wiring Instructions for the Black Tiled Fan Range



IMPORTANT: READ THESE INSTRUCTIONS BEFORE COMMENCING THE INSTALLATION

DO NOT install this product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40°C or less than -5°C.
- Possible obstructions which would hinder the access or removal of the Fan.

SAFETY AND GUIDANCE NOTES

- A.** All wiring to be in accordance with the current I.E.T. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.
- B.** The Fan is suitable for installation within Zone 3 (Outside zone).
- C.** The Fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.
- D.** Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.
- E.** The Fan should only be used in conjunction with the appropriate Manrose products.
- F.** The Fan should only be used in conjunction with fixed wiring.
- G.** Exhaust fans may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of an exhaust fan such as a partition fan or a duct fan the operation of flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.
- H.** The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.
- I.** Where ducted Fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the Fan.

- J.** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- K.** Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- L.** Ensure the grille is fully engaged onto the fan chassis using the screw provided.
- M.** Cleaning and user maintenance shall not be made by children.

ACCESSORIES (not supplied)

WALL FITTING KIT

A range of 100mm wall kits are available for installing into most walls using liners supplied.

INSTALLATION



IMPORTANT: The fan should only be used in conjunction with fixed wiring.

PANEL/CEILING MOUNTING

1. For panel/ceiling mounting the fan should be installed into a closed duct protected by an exterior air grille that must comply with the standard requirements of your country to prevent access to the fans impeller.
2. Cut a 105mm diameter hole for 100mm fans.
3. Loosen the screw at the bottom of the grille and remove the front grille. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position.
4. After installation, ensure impeller rotates freely and the shutters can open.
5. Replace the grille and tighten the retaining screw.

WALL MOUNTING

1. For wall mounting cut a 115mm diameter hole for 100mm fans, through the wall and insert the wall sleeve. Slope the sleeve slightly downwards away from the fan. Cut to length and cement both ends into position flush with the wall faces.
2. Loosen the screw in the bottom of the grille and remove the front grille. Mark the screw centres through the holes in the fan back plate. Drill, plug and screw into position. Fix exterior grille into position with the louvres positioned downwards. (Note:- The grille must comply with the standard requirements of your country to prevent access to the fans impeller. The wall kit used in this installation should provide a minimum ducting length of 100mm from the fans back plate to the inside of the external grille).
3. After installation, ensure impeller rotates freely and the shutters can open.
4. Replace the grille and tighten the retaining screw.

WIRING



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

IMPORTANT

- The fan should only be used in conjunction with fixed wiring.
- The cross - sectional area of supply cord used should be ranged from 0.75-1.5mm².
- Cable entry can be made from the rear or the side of the fan using the grommet provided.
- The extraction fan is suitable for connection to 220-240V ~ 50Hz supply.
- The fan is a class II double insulated product and **MUST NOT** be earthed.

1. Select and follow the appropriate wiring diagram. (Fig. 1, 2 or 3)
2. Check all connections have been made correctly and ensure all terminal connections are securely fastened.
3. Ensure the impeller rotates and is free from obstructions.

SETUP



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

See Fig 1, 2, 3, 4 & 5

BLK100S – Single speed fan. Controlled by remote switch (e.g. light switch or auto sensor) Fig.1.

BLK100T – Single speed with overrun timer. The fan can be wired to a lighting circuit switch. Fig.3. or wired for a basic on/off operation wire as Fig.2.

When switched 'ON', the fan will operate at full speed and will continue to run for a pre-set time after the switch is turned 'OFF'.

TIMER ADJUSTMENT

BEFORE ADJUSTING THE TIMER, SWITCH OFF THE MAINS SUPPLY. TIMER SHOULD ONLY BE ADJUSTED BEFORE OR DURING INSTALLATION.

1. Remove the fan grille Fig.4. The controller is factory set at 15 minutes approx. The overrun time period can be adjusted from 5-25 minutes by altering the adjuster on the control PCB.
2. To REDUCE the operating time, use a small screwdriver to turn the adjuster Fig.5. ANTI-CLOCKWISE.
3. To INCREASE the operating time, use a small screwdriver to turn the adjuster Fig.5. CLOCKWISE.
4. Replace the fan grille.

***All timer versions require a third switch live wire for the timer to work.**



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.

1. At intervals appropriate to the installation, the fan should be inspected and cleaned to ensure there is no build-up of dirt or other deposits.
2. Wipe the inlets and front face with a damp cloth until clean.

The fan has sealed for life bearings, which do not require lubrication.

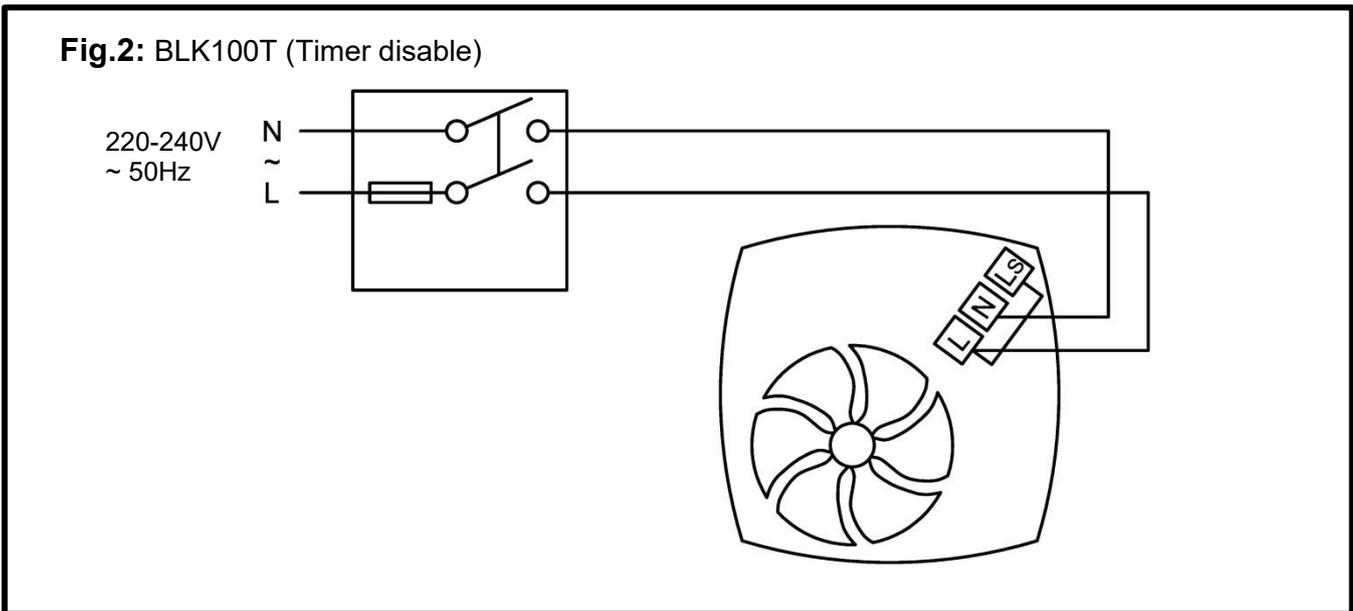
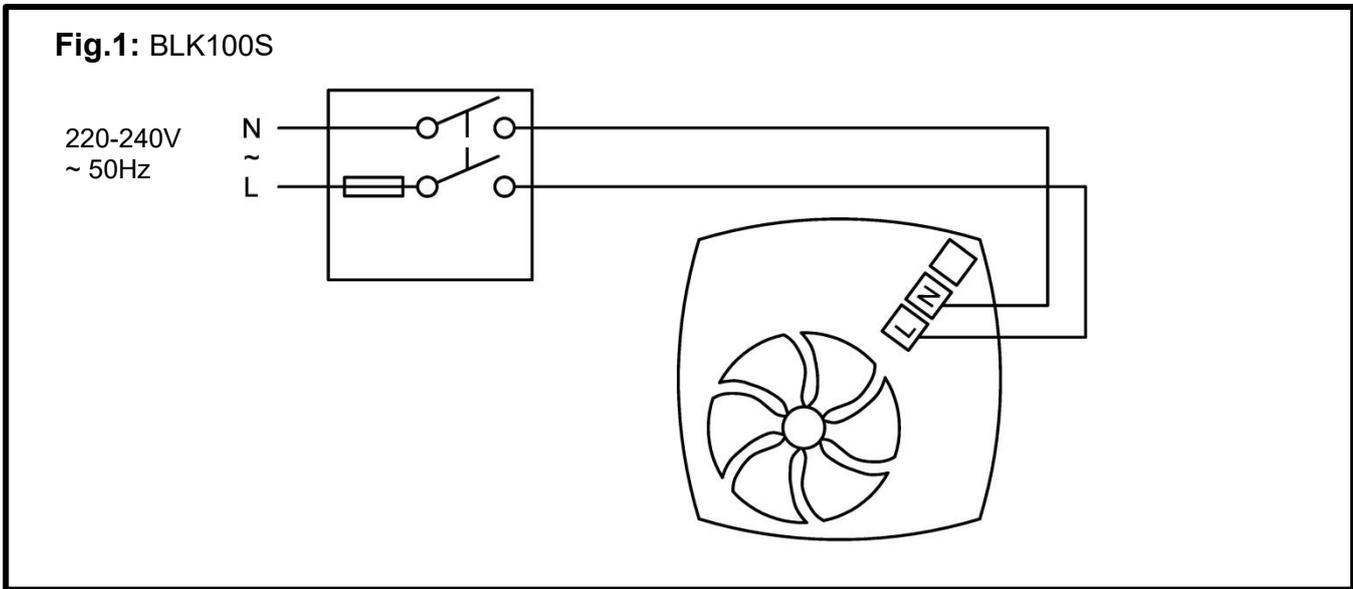
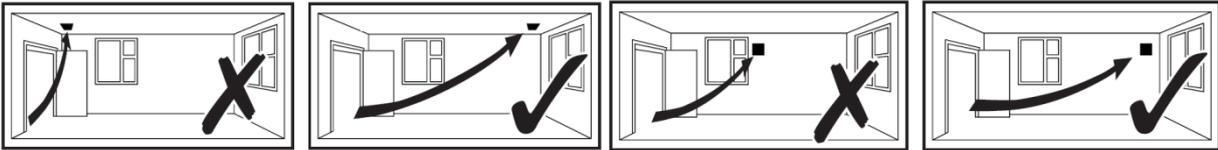


Fig.3: BLK100T

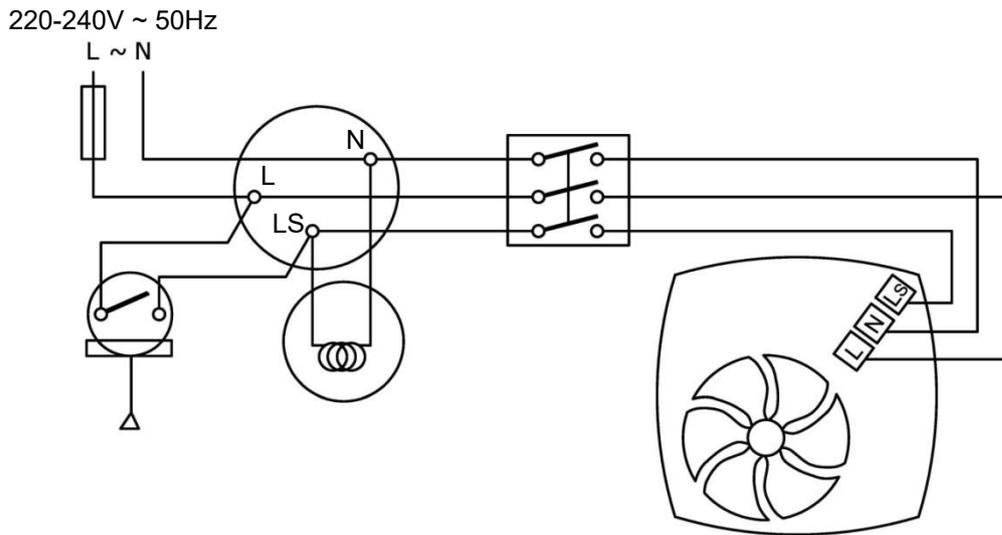
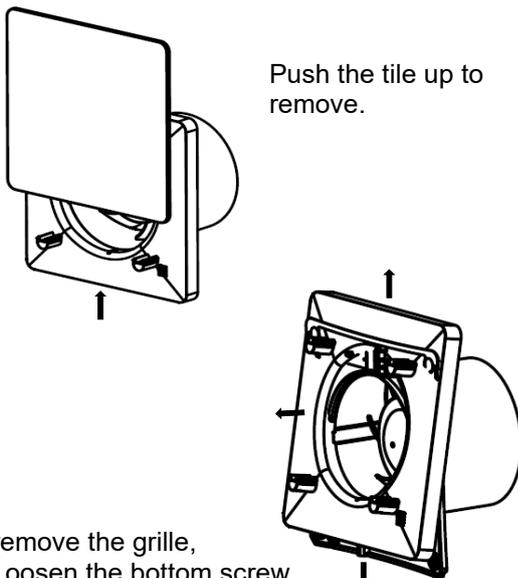
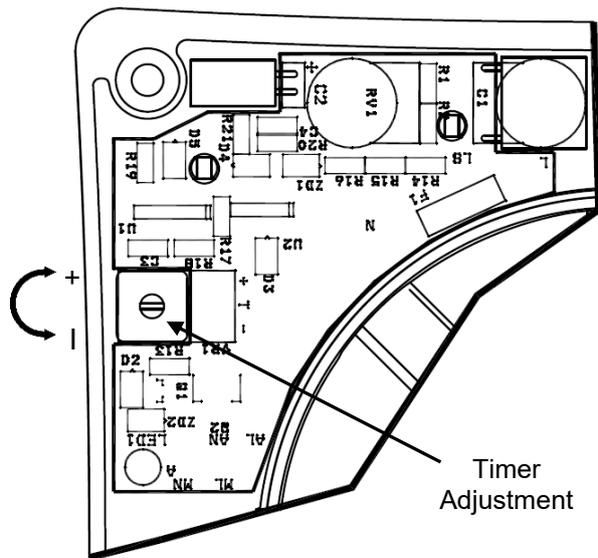


Fig.4: – Tile & Grille removal for cable entry and PCB control access.



To remove the grille,
 1. Loosen the bottom screw.
 2. Pull the grille outwards and up to release.

Fig. 5:



To **REDUCE** the operating time, use a small screwdriver to turn the adjuster **ANTI-CLOCKWISE**.
 To **INCREASE** the operating time, use a small screwdriver to turn the adjuster **CLOCKWISE**.



Disposal

This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

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