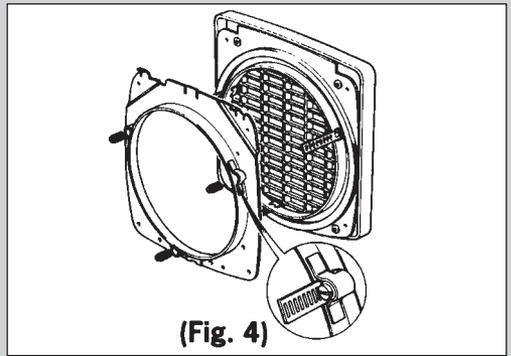
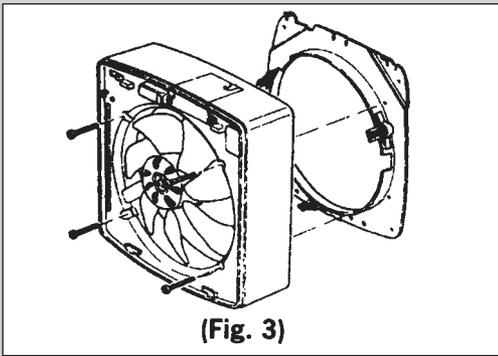
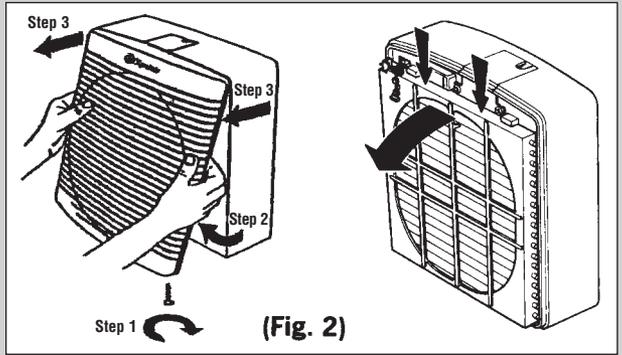
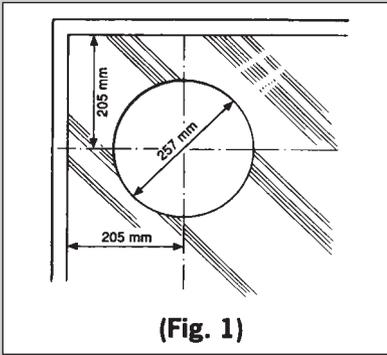


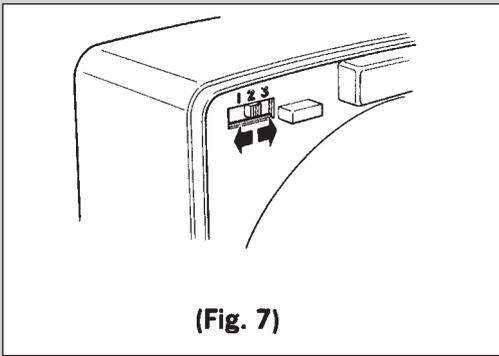
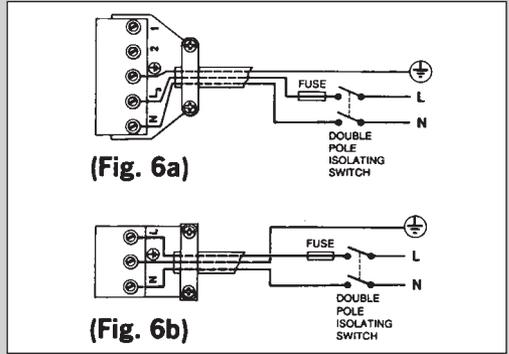
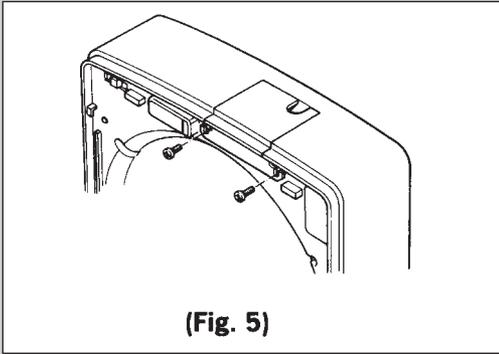
Installation and Operating Instructions

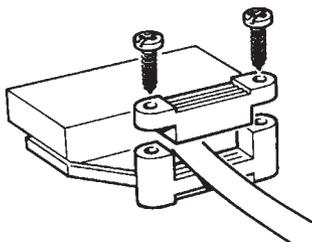
GX9 GXC9

To be retained by the user for future reference

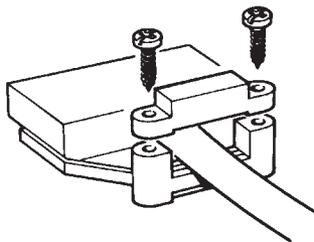




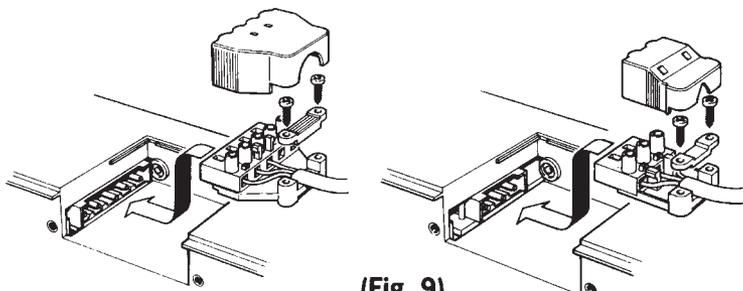




(Fig. 8a)

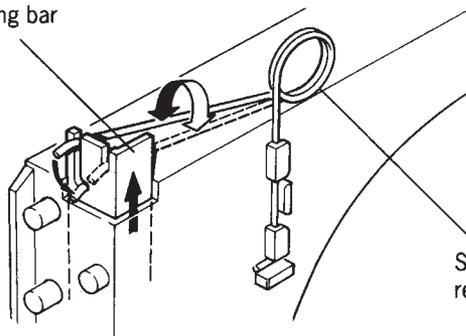


(Fig. 8b)



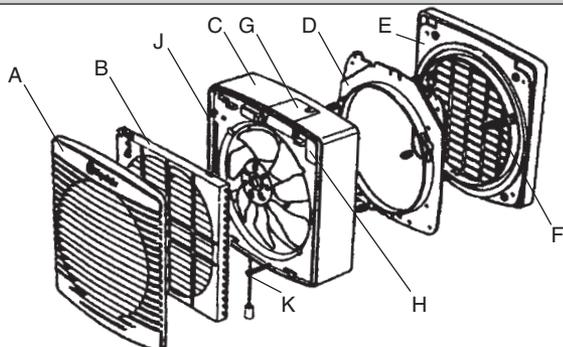
(Fig. 9)

Operating bar



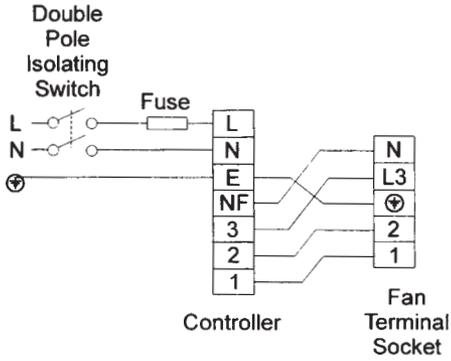
(Fig. 10)

Shutter return spring

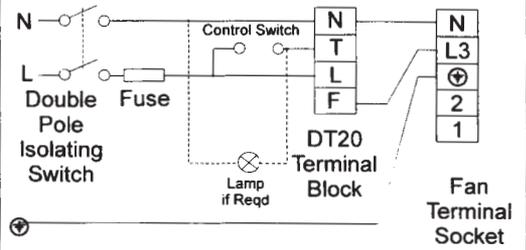


(Fig. 11)

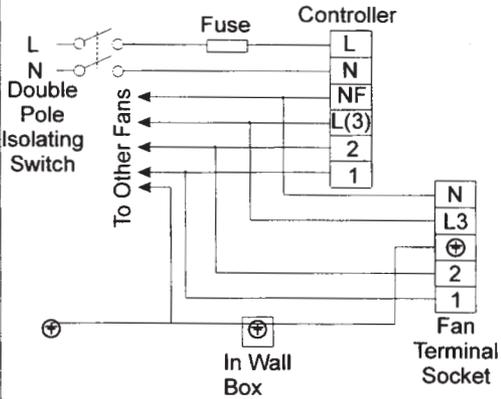
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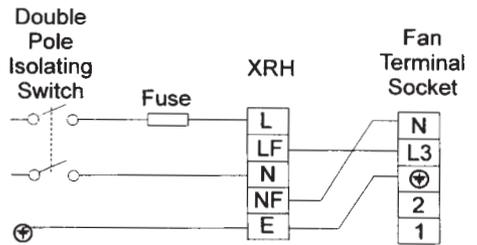
DT20



EC6H



XRH



(Fig. 12)

GB

Xpelair GX9 and GXC9 Installation and Operating Instructions

LEAVE THIS INSTRUCTION LEAFLET WITH THE FAN, FOR THE BENEFIT OF THE USER.

INSTALLING THE FAN

These fans are intended for connection to fixed wiring. Check that the electrical rating shown on the fan matches the mains supply.

All installations must be supervised by a qualified electrician.

Installations and wiring must conform to current IEE Regulations (UK), local or appropriate regulations (other countries).

WARNING: THESE APPLIANCES MUST BE EARTHED.

If you have any queries before installing these products or after

they have been installed call the Xpelair Technical Hotline

+44 (0) 8709 000 430. Our engineers are there to help you during normal office hours and may be faxed at all other times on 08709 000 530.

Customers outside the UK may contact your local Xpelair Distributor

1 Description

GXC9 (cord operated) and GX9 fans have the following features:

- ◆ Window, wall, panel or roof mounted.
- ◆ Are fitted with silent operation back draught shutters. (GX9)
- ◆ The GX9 can extract, intake or "open shutter only", using an integral Fan Selector Switch.
- ◆ Trickle Ventilation setting.
- ◆ Can be installed with a controller (GX9 only).

If used with a controller, the GX9 can intake or extract at selected speeds or at variable speed depending on the type of controller. If used with an on/off switch, the GX9 will intake or extract at high speed.

2 What the installer will need

If installing the fan with an on/off switch:

- ◆ 3-core cable.
- ◆ A double pole isolating switch with a minimum contact gap of 3mm. (Wall or Ceiling mounted).
- ◆ 6mm Blade Large Screwdriver, 3mm Blade Electricians Screwdriver, Nos. 1 & 2 Pozidriv Screwdrivers.

If wall mounting the fan, you will also need:

- ◆ Mortar (to make good the hole).
- ◆ Wall Kit WK9/8 or WK9/11 (Available from Xpelair) or a tube 253mm internal diameter.

If window mounting the fan, you will also need:

- ◆ A single glazed non-opening window with a minimum glass thickness of 4mm.

If roof mounting the fan, you will also need:

- ◆ Roof cowl RC9
- ◆ Roof Mounting Plate XRP9/12 for flat roof installation. (Both items available from Xpelair).

If installing the fan with a controller (GX9 only):

- ◆ 5-core cable. *Note: Please check the instructions for the controller.*

3 Where to locate the Fan

- ◆ Locate it as high as possible.
- ◆ At least 205mm from the edges of the wall or window frame to the centre of the hole.
- ◆ As far away as possible from and opposite to the main source of air replacement to ensure airflow across the room (e.g. opposite the internal doorway).
- ◆ Near the source of steam or odours.
- ◆ Not where ambient temperatures are likely to exceed 50°C.
- ◆ **If installing in a room containing a fuel burning device which has a non-balanced flue, it is the installers responsibility to ensure that there is enough replacement air to prevent fumes being drawn down the flue when the fan is operating up to maximum extract. Do not install in room containing a solid fuel appliance.**

Exhaust air must not be discharged into a flue used for exhausting fumes from appliances supplied with energy other than electric.

Requirements of all authorities concerned must be observed for exhaust air discharge and intake flow rates.

- ◆ **If the fan is intended to intake air, the inlet grille should be sited at a distance of at least 0.5m from the discharge outlet of a flued heating or cooking appliance.**
- ◆ **When intended for use in possible chemical corrosive atmospheres, you must consult our Technical Services Department.**
- ◆ **This electrical product, if installed in a shower room or bathroom must be so sited that it cannot be touched by persons making use of the bath or shower.**

4 Installing the Isolating Switch and Cables

1. Check there are no buried Pipes or Cables e.g. Electricity, Gas, Water behind the Switch location (in the Wall or above the Ceiling).
2. Lay in the Cable from the Isolating Switch to the Fan location.
3. Lay in the Cable from the Isolating Switch to the point of connection to the Mains Supply.
4. Install the Isolating Switch.

(Continued)

5. Make all connections within the Isolating Switch.

WARNING: Do not make any connections to the Electrical Supply at this stage.

For Australia only: These models are permanently connected to the supply and operation is controlled by a remote switch. They should be directly wired to the supply through an approved 10A wall mounted surface switch with at least 3mm clearance between contacts.

5 Preparing the hole

If installing in a window, get a ready-cut pane to the dimensions given in Fig. 1.

If installing in a wall:

1. Make sure that the centre of the hole is located at least 205mm from the edges of the wall.
2. Check there are no buried pipes of cables in the wall or obstructions on the outside e.g. Electricity, Gas, Water.
3. Mark on the wall the centre of the hole and drill right through.
4. Draw a circle on this centre to suit the wall duct.
5. Cut the hole. Do not cut right through the wall.

(The recommended method is to drill a series of holes, close together, around the edge of the cutting line and remove the brick between the holes with a chisel.

Warning: eye protection must be worn.

6. Go outside and cut a hole in the outer wall, repeating the process described above.
7. Fit the ducting.
8. Make good the hole. Allow the Mortar to set before continuing the Fan installation.

6 Separate the Fan from the Inner Clamp Plate

1. Remove the inner grill and back draught shutter by first removing the screw from the underside of the grille then unclipping the bottom of the grille, the top of the grille can then be released by unclipping the top corner. The shutter can then be unclipped. NOTE: The top of the grille can only be released when the screw is removed and the bottom of the grille has been released (Fig. 2).
2. Unscrew the four cross-headed screws and lift off the Fan (Fig. 3).

7 Mount the Fan in the hole (Fig. 4)

Xpelair recommended that the instructions of this section are carried out by two people.

If working above Ground Floor level, appropriate safety precautions must be observed.

If installing the fan in a window, fix the three rubber edge protectors (packed separately) at equal distances around the lip of the Outer Clamp Plate.

1. Attach the Ladder Strips (packed separately) to the Outer Clamp Plate.
 2. Hold the Outer Grille up to the outside of the wall or window so that the lip of the Outer Clamp Plate protrudes into the hole.
 3. Hold the Inner Clamp Plate to the inside of the wall or window and guide the Ladder Strips from the Outer Clamp Plate through the slots in the Inner Clamp Plate.
 4. Insert the slotted screws (packed separately) into the pockets around the ladder Strip slots.
 5. Tighten the screws carefully to make a good seal.
- Do not overtighten.**
6. Trim the Ladder Strips back to the required length, if necessary remove any sharp edges.

8 Refit the Fan to the Inner Clamp Plate

1. Fit the Fan Assembly onto the Inner Clamp Plate (Fig. 3).
2. Make sure that the Ladder Strips go inside the Fan Assembly so they will not get caught in the blades.
3. Tighten up the four screws. **Do not overtighten.**

9 Wire the electrical connections

1. Remove the Fan Connector Plate carefully by unscrewing the two screws (Fig. 5). The Connector Assembly parts are contained loosely behind this plate.
2. Remove the two cable clamp screws (Fig. 8).
3. If required, feed the cable through the grommet (packed separately) in order to fit to the cable entry of the Connector Plate.

◆ *If installing a GX9 with an on/off switch:*

1. Wire the Fan Connector as shown in Fig. 6a.
2. Set the Fan Selector Switch to Position 1 for intake, Position 2 for extract or Position 3 for "open shutter only" (Fig. 7).

◆ *If installing a GX9 with a controller:*

1. Refer to the installation instructions for the controller.
2. If wiring to an existing controller, contact Xpelair Technical Services or in export markets, the Xpelair distributor.
3. Set the Fan Selector Switch to Position 3 if using a controller providing variable speed and/or direction. Otherwise, set the Fan Selector Switch to Position 1 for intake, Position 2 for extract or Position 3 for "open shutter only" (Fig. 7).

◆ *If installing a GXC9:*

1. Wire the Fan Connector as shown in Fig. 6b.

10 Fitting the Cable Clamp

◆ *For the GX9:*

- For cable up to 8mm diameter, clamp the cable as shown in Fig. 8a.
- For cable equal to or greater than 8mm and up to 11.5mm diameter, clamp the cable shown in Fig. 8b.
- For cable greater than 11.5mm diameter use the conduit entry provided.

◆ *For the GXC9:*

- For cable up to 6mm diameter, clamp the cable as shown in Fig. 8a.
- For cable equal to or greater than 6mm and up to 10mm diameter, clamp the cable as shown in Fig. 8b.
- For cable greater than 10mm diameter use the conduit entry provided.

11 Fitting the Connector to the Fan

1. Ensure the cable is firmly retained by the clamp.
2. Assemble the Fan Connector by snapping the Cover over the Connector (Fig. 9).
3. Plug the Fan Connector into the Fan Assembly.
4. Refit the Connector Plate.
5. Refit the Backdraft Shutter.
6. Refit the Inner Grille.
7. **Switch off the mains electrical supply and remove fuses.**
8. Connect the cable from the isolation switch to the electrical supply wiring.
9. Replace the fuses, and switch on the mains electrical supply.

◆ **For fixed wiring circuits the protective fuse for the appliance must not exceed 5A.**

USING YOUR FAN

12 Operating the Fan

GX9 (switch operated):

To switch on and off, use the switch on the wall or ceiling.

GX9 (controller operated):

Refer to the instructions for the controller.

◆ **The shutters are operated by a silent thermo-actuator which has a time delay on opening (30-50 secs) and closing (3 mins).**

GXC9 (cord operated):

To switch on, pull down the cord and then release it. Repeat to switch off.

13 Trickle Ventilation

◆ Trickle Ventilation is equivalent to that provided by an air brick or similar device.

1. Remove the inner grill and back draught shutter by first removing the screw from the underside of the grille then unclipping the bottom of the grille, the top of the grille can then be released by unclipping the top corner. The shutter can then be unclipped. NOTE: The top of the grille can only be released when the screw is removed and the bottom of the grille has been released (Fig. 2).

◆ *To allow trickle ventilation:*

2. Release the Shutter Return Spring as shown in Fig. 10.
3. Re-position the Shutter Return Spring into the L-shaped slot.
4. Raise the Operating Bar to latch into position.

◆ **To fully close the shutters and stop any backdraft:**

5. Unlatch the Shutter Return Spring and re-position into the short slot.
6. Refit the Back Draught Shutter and Inner Grille.

LOOKING AFTER YOUR FAN

14 Cleaning

1. Before cleaning, isolate the fan from the mains supply. Allow 3 minutes for the impeller to stop rotating and the powered shutter to close.
2. Remove the inner grill and back draught shutter by first removing the screw from the underside of the grille then unclipping the bottom of the grille, the top of the grille can then be released by unclipping the top corner. The shutter can then be unclipped. NOTE: The top of the grille can only be released when the screw is removed and the bottom of the grille has been released (Fig. 2). **WARNING:** The fan will still operate when the inner grille is removed.
3. Remove the impeller by unscrewing the knob at the front of the impeller. anticlockwise.

4. Clean the inner grille, back-draught shutter and impeller by immersing in warm soapy water. Dry thoroughly.

Do not immerse the fan in water or other liquids to clean any other parts of the fan.

5. Refit the impeller by locating it over the motor shaft and aligning the arrow on the impeller with the white dot on the motor. Make sure the impeller is seated correctly.
6. Refit the knob making sure the ratchet at the rear of the knob is fully engaged.

◆ **Never use strong solvents to clean the fan.**

◆ Apart from cleaning, no other maintenance is required.

KEY (For Fig. 11)

Inner Grille.....	"A"	Ladder Strips.....	"F"
Back Draught Shutter.....	"B"	Connector Plate.....	"G"
Fan Assembly.....	"C"	Rating Plate.....	"H"
Inner Clamp Plate.....	"D"	Selector Switch (GX9 only).....	"J"
Outer Clamp Plate/Grille.....	"E"	Cord (GXC9 only).....	"K"