

# **CLEANFLOW**

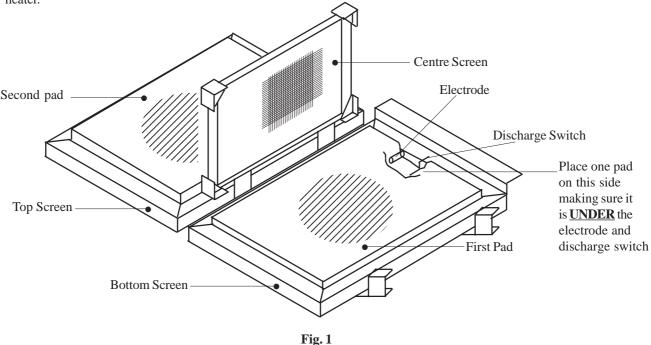
# Electronic Air Cleaner User and Pad Replacment Instructions

Publication No. ZZ 539/9 October 2000

### 1.

# **GENERAL DESCRIPTION**

- 1.1 The Johnson & Starley Cleanflow electronic air cleaner is designed to replace the passive air filters normally supplied with air heaters and to provide an inexpensive means of efficiently cleaning the air of dust, pollen and even smoke. The electronic air cleaner consists of two special glass fibre pads mounted inside a retaining frame, and a central screen between the pads. Dust and other particles passing near to the fibres are attracted to them and retained by an electrostatic charge. The particles themselves, however, are not charged so any which escape the filter will not be attracted to walls, curtains or furniture.
- 1.2 Since the power consumption of the cleaner is low (less than 1 watt), it has been arranged to operate as long as there is an electrical supply to the air heater. This means that it can be used with the Summer Air Circulation facility provided on the heater.



# 2. <u>MAINTENANCE</u>

2.1 The only maintenance required is to remove the Cleaner element approximately every fortnight, inspect it for build up of dust and deposits, if necessary, remove deposits from the screens and periodically replace the Cleaner pads.

**Note:** If the cleaner pads are allowed to collect too much dust, operation of the Air Cleaner and air heater may become ineffective.

# 2.2 To change the Cleaner pads:

- 2.2.1 Switch OFF the electrical supply to the unit.
- 2.2.2 **Cleanflow Petite only:** Disconnect the jack plug on the top right of the Cleaner element.
- 2.2.3 **All applications:** Gently withdraw the element and vacuum off any accumulated dust from the outside.
- 2.2.4 Undo the two latches and open the Cleaner element.
- 2.2.5 Before removing the dirty pads, note that the white electrode and the thin spring like wire (discharge switch) are on top of one of the pads -**THIS IS MOST IMPORTANT.**
- 2.2.6 Remove the two pads, (taking care not to damage the electrode and discharge switch) and discard them.
- 2.2.7 Remove any remaining dust from the mesh screens with a soft brush or vacuum cleaner. Tarry deposits (i.e. from cigarette smoke) may be removed from the screens by careful application of a small amount of methylated spirit. **WARNING: Do not use water to clean the unit or the pads.**

# 2. To change filter pads (cont.)

2.2.8 With the Cleaner lying open on a flat surface, fit 2 clean pads (see Fig. 1)

**Note:** One side of the cleaner pad is lightly treated with a resin agent which may be coloured. This side face outwards (away from the centre screen).

2.2.9 Close the Cleaner element carefully, ensuring that the pads do not move off centre.

2.2.10 Close the latches and check that there are no gaps between the pads and the outer frame.

Note: when the frame is closed, the insulated electrode must be in firm contact with the central screen.

IMPORTANT: Use only genuine CLEANFLOW replacement Cleaner pads. Do not use substitutes, as other materials may cause discharge and generation of ozone. Replacement pads are available in packs containing three sets. When ordering, please specify the part number which can be found on the label situated on the Cleaner element frame.

2.2.11 Refit the Cleaner element to the unit, reconnect the jackplug and close and secure the unit door.

# 3. <u>FAULTFINDING</u>

- 3.1 If you feel your Air Cleaner is not working correctly, remove the Cleaner from the unit and check the amount of dust which has collected. Clean the Cleaner assembly and replace the pads if necessary.
- 3.2 Ensure that the pads are completely dry. Damp pads may be dried using a hair drier. If in any doubt, always replace the pads.
- 3.3 If the unit emits a crackling noise, sparking is occurring in the unit either because a conductive material is caught on the pads, or the outer screens are bowed in towards the centre screen. Remove the Cleaner assembly, remove and examine the pads (carefully removing any conductive material that may be causing arcing), and lightly press all around the edges of the outer screens to ensure that they bow away slightly from the centre screen (refer to Fig. 2). Change the pads if necessary.

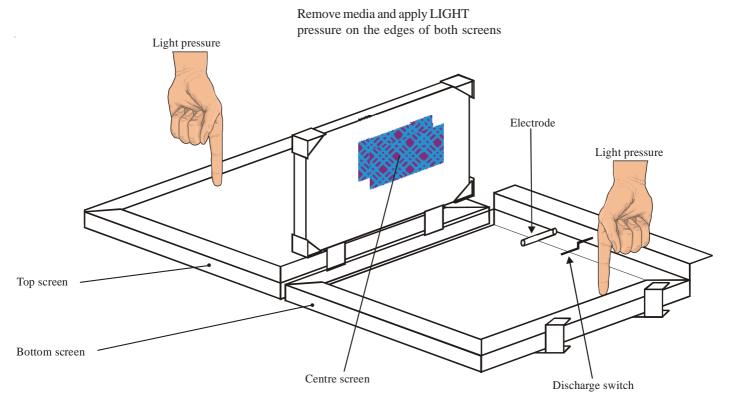


Fig. 2 Seating of filter screens to prevent arcing.

Johnson and Starley prides itself on its ability to supply spare parts quickly and efficiently. If your service engineer indicates a problem in obtaining a spare part, advise him to contact Johnson and Starley Spares Department at the address below.

Telephone: 01604 762881 JOHNSON AND STARLEY Ltd.,

Rhosili Road, Brackmills,

Fax: 01604 767408 2 Northampton, NN47LZ