

**MASTERWELD MW 8000**

**MANUAL**

**Masterweld UK**  
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## **MASTERWELD MW8000 DUST & FUME FILTER**

### **INTRODUCTION**

Your MW8000 is a portable fume & dust filter that uses a three stage filtration system to filter welding fumes, & dust from industrial processes & return cleaned air to the work area.

The spark trap collects heavy particles, slag, pieces of MIG wire etc. The fibre glass insert inside the spark trap is supported by a steel mesh frame and stops sparks and very hot pieces from damaging the main filter. It is important that the fibre glass is in good condition and that it is fitted correctly. Failure to replace the fibreglass when it is worn or eaten away by hot sparks or molten metal can result in damage to the main filter or in extreme cases cause a fire.

The disposable main filter cartridge filters the fine smoke and dust to 97% efficiency. A high efficiency filter ( part no. 1010) can be specified and this will filter to 99.996% efficiency to British Standard 3928.

MW8000 units have a single 1100 watt by pass motor.

### **OPERATION**

Before operating your machine, it is important to check that your power supply is the same as the machine and that a suitable plug is fitted by a qualified electrician. All machines must be earthed.

### **USING THE FUME FILTER**

The label on the top of the unit shows the various switch positions for the operation of the unit.

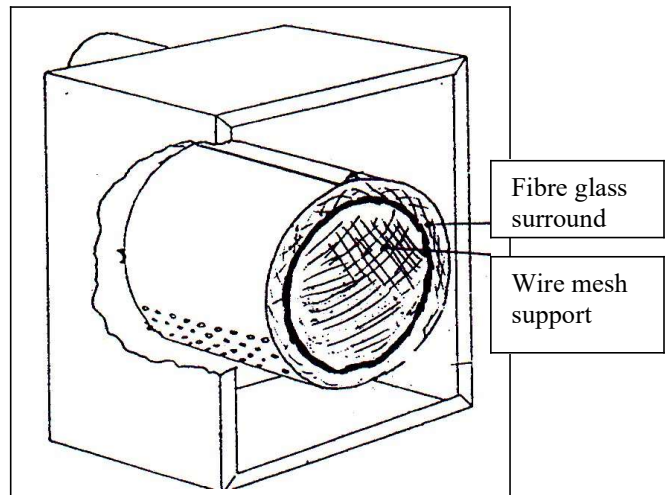
The flexible hose should be attached directly to the front spigot of the machine using the reducer assembly. The other end of the flexible hose should be attached to the extractor MIG torch Y piece of the Euro connector. All hoses should be secured with the hose clips that are supplied.

## MAINTENANCE

### Spark Trap

In the spark trap of the MW8000 is a Metal mesh support frame & a fibre glass surround. (pt. no. 1031) The fibre glass surround should be cleaned every 2-3 days of welding.

If the fibre glass becomes damaged or “eaten” away by the continuous flow of sparks from the welding process, renew it immediately. Failure to do so could result in damage to the main filter cartridge & in extreme cases to fire in the main filter.



#### a) New filter cartridge

The machine is fitted with a filter full indicator light that illuminates when the filter requires replacing. This light works off a differential pressure switch that uses small tubes to sense the pressure in front & behind the filter cartridge.

When this light comes on, a new filter is required. (pt. no. 1009)

Changing the filter cartridge.

- a) Switch unit off & disconnect from the mains.
- b) Release the securing clips of the spark trap & remove the spark trap & front plate. As you draw out the filter, be careful to ease the black plastic tube that goes through the rubber grommet in the front plate out of the grommet so that it dangles.
- c) Pull the used cartridge off the spigot & dispose off.
- d) Smear a little liquid soap around the neoprene seal of the new filter cartridge, place the cartridge on the floor or bench & gently ease the front plate spigot into the neoprene seal.
- e) Put the new filter with the front plate attached  $\frac{3}{4}$  way into the body of the MT, and then push the black plastic sensor tube through the rubber grommet of the front plate.
- f) With the fibre glass pre filter in place, put the spark trap on the front of the front plate & secure the toggle clips shut.
- g) Connect the machine to the mains supply, switch on & continue working.

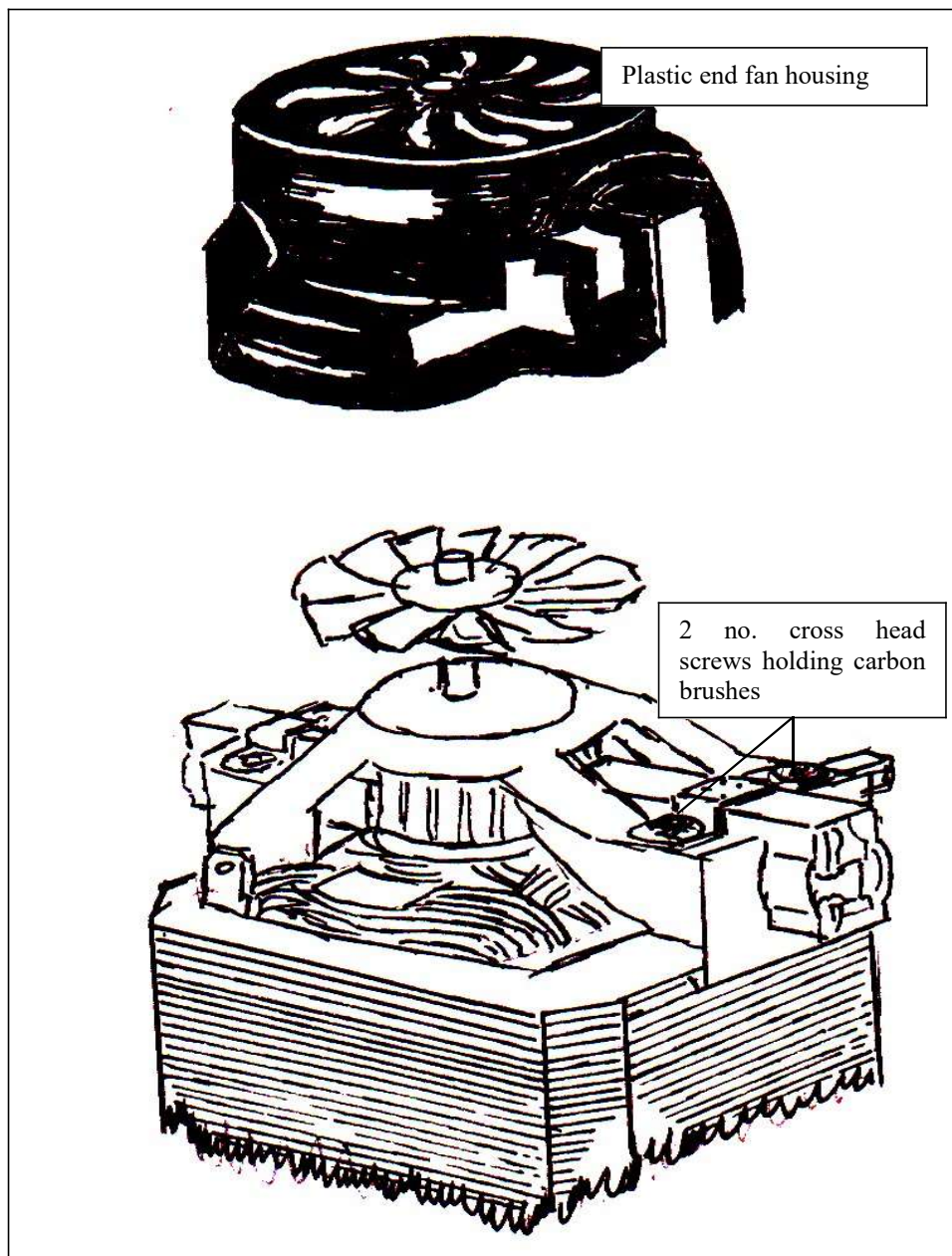
#### b) Carbon brushes ( pt. no. 1000-IA)

The original carbon brushes in the motor(s) should be changed after 1000 hours of working & subsequent changes should be every 800 hours.

##### Fitting new brushes

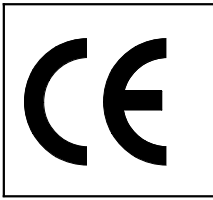
- 1 Switch off the unit & disconnect from the mains supply.
- 2 Undo the 4 no. self tapping screws that hold the back plate/ silencer.
- 3 Remove the back plate to assess the motor compartment.
- 4 Take off the 5mm push on power lead connector that are attached to the motor(s) marking carefully where each connector fits.
- 5 Part the plastic end fan housing either side of the each brush holder to remove the plastic fan housing. The plastic fan housing can now be removed.

- 6 Undo the 2 no. cross head screws that hold each brush into the brush holder & remove the old brushes.
  - 7 Place new brushes in the brush holders ensuring that the location lug on each brush is in the slot on the brush holder & replace the cross head screws.
  - 8 Push the plastic fan housing(s) over the brush assemblies until the lugs catch.
  - 9 Replace the motor power connectors in the correct places.
  - 10 Fit the back plate/silencer on the main body & secure with the 4 no. self tapping screws.
  - 11 Connect to the mains supply & switch on the unit.
- The new brushes will spark a little until bedded in.



## DECLARATION OF CONFORMITY

We declare under our sole responsibility that this Masterweld MW8000 fan/filter system is in conformity with all E.U. & U.K. regulations for the workplace & CE directives 98/37/EC.



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**Subject to change without notice**