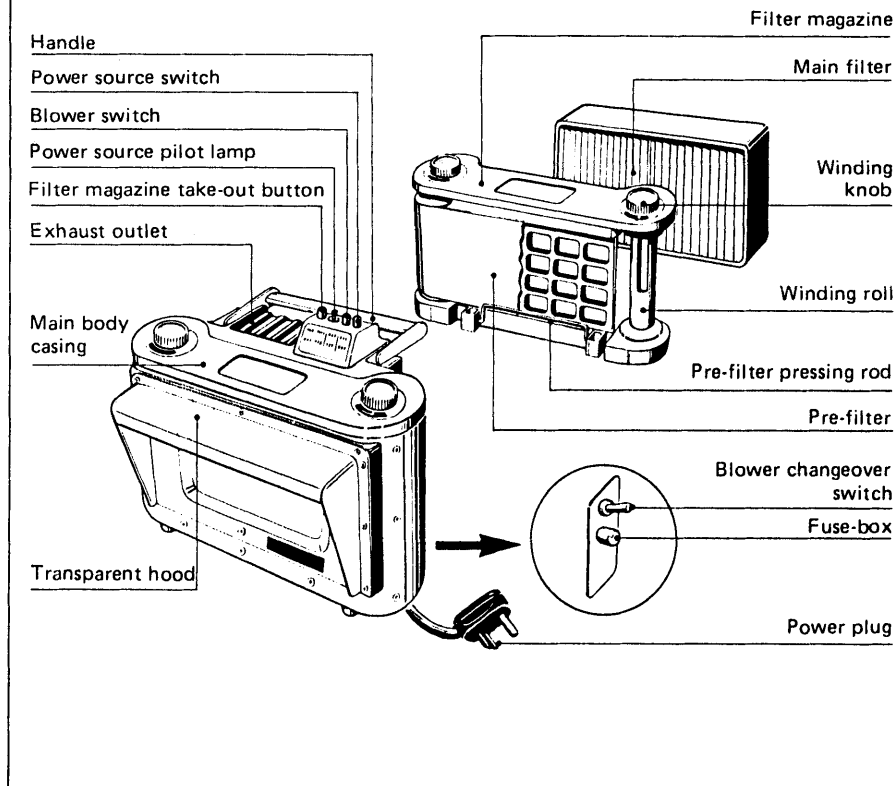


## ■ PARTS IDENTIFICATION



## ■ HOW TO USE

1. Insert the power plug into the plug socket. (AC 230V)
2. Push the power source switch. (Then the pilot lamp turns on.)
3. Push the blower switch.
4. Select Blower HIGH or LOW depending on the work condition.

### ■ Selection of Blower High or Low

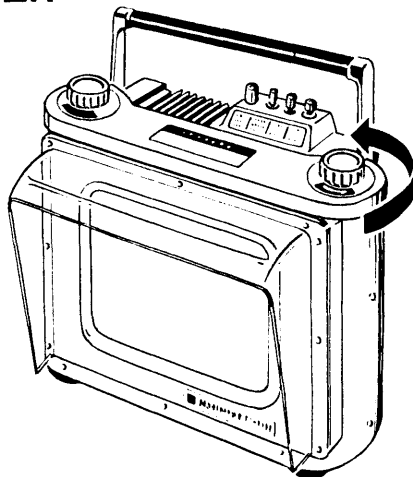
| Blower | Standard for selection   | Suction range |
|--------|--|---------------|
| Low    | Soldering work of small pieces.  | 10 cm         |
| High   | 1. Soldering work of large pieces.<br>2. Where solder smoke is hard to absorb due to cross wind. | 25 cm         |

## ■ CAUTIONS FOR USE

- The blower does not rotate unless the filter magazine is inserted.
- If the filter clogs, the suction power is lowered.
- Refrain from using this filter with any power source other than AC 230V.
- Be sure to insert the main filter into the filter magazine securely. (If the main filter comes off in the body, the filter magazine may become impossible to pull out of the body.)

## ■ SERVICE LIFE OF FILTER

1. When the suction power is reduced, turn the winding knob at the right side in the arrowed direction to renew the face of the prefilter with new one.
  - When the pre-filter is used up to the point of another 30cm remainder, the indication "Replace at another 30cm" comes out, and so follow the indication.
2. If the suction power is low even if the prefilter is renewed to a new face, please replace the main filter.



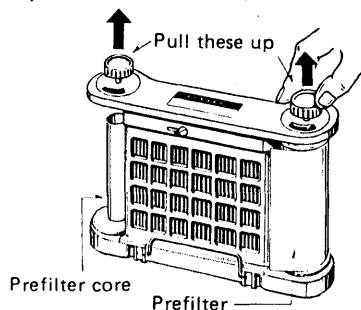
**NOTE:** The service life of pre-filter and mainfilter differs depending on the dust quantity in the ambient of use.

## ■ HOW TO REPLACE FILTER

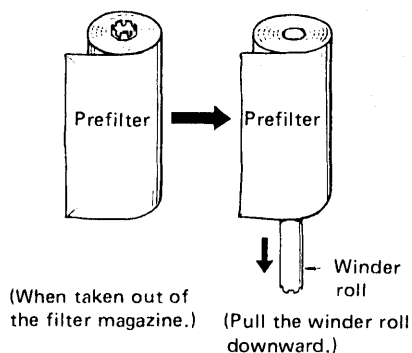
1. Push the filter magazine take-out button.  
(Then the filter magazine rises some 1cm or so.)
2. Pull the filter magazine upward.
3. Replace the filter in the order as shown below.
4. Insert the filter magazine into the body fully.

## ■ How to Remove Prefilter after Use

1. Pull up the knobs of both winders and take out the core and the prefilter after use.

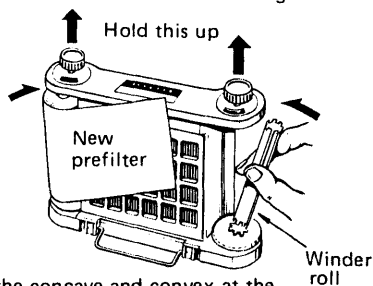


2. Pull out the winder roll.



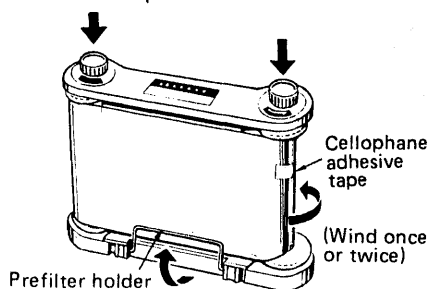
## ■ How to Mount New Prefilter

1. Set a new prefilter and the winder roll as shown in the drawing.



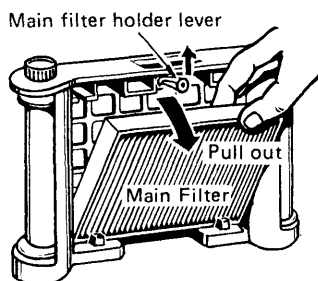
(Fit the concave and convex at the upper and lower ends of the winder roll with that of filter magazine accurately.)

2. Wind the top end of the prefilter over the winder roll once or twice.
3. Press the pre-filter with the holder.



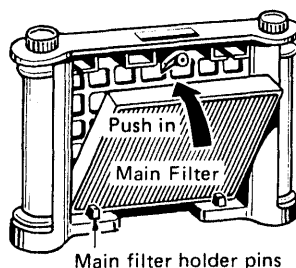
## ■ How to Remove Main Filter

1. Push up the main filter holder lever.
2. Pull out the main filter.



## ■ How to Fit Main Filter

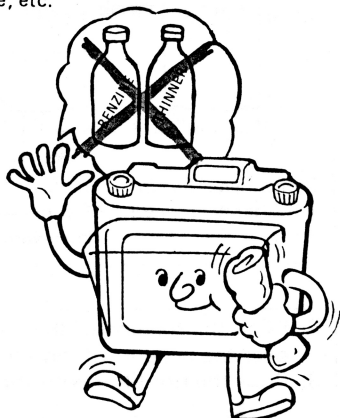
1. Support the main filter with holder pins.
2. Insert the main filter into the filter magazine.



Please buy filters at the dealer you bought your Pana Filter from.

## MAINTENANCE

- If the Pana Filter becomes dirty, clean it with alcohol or mild liquid soap.
- Be certain never to clean the Pana Filter with volatile fluids, such as thinner, benzine, etc.
- Be certain never to wash the body of the Pana Filter by water.

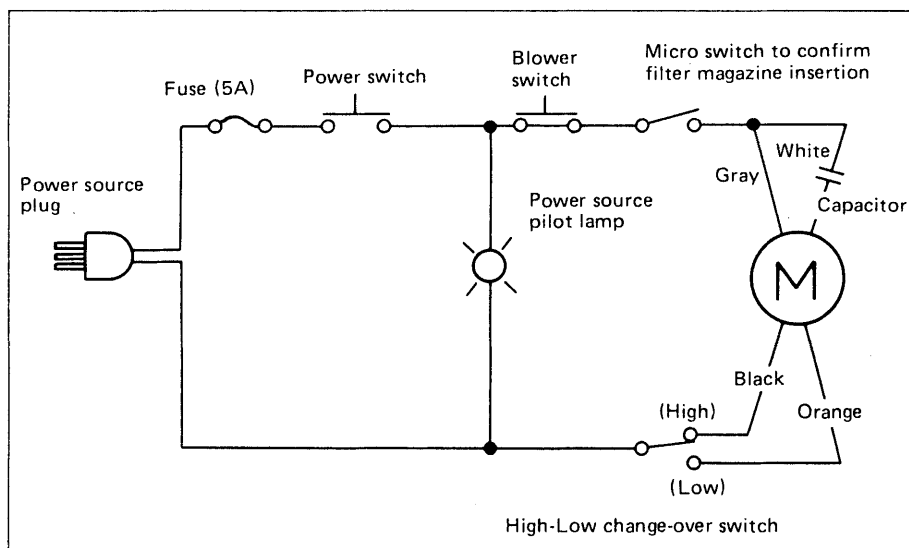


## ABOUT SERVICE

If you happen to have a problem with your Pana Filter, before taking it to a repairman, please read this Operating Instructions and check the following trouble shooting guide. If after checking the problem cannot be found, take the machine to the dealer where you bought your Pana Filter.

| PROBLEM   | CAUSE: SOLUTION   |
|---|---|
| Pilot lamp does not light.  | 1. Is the plug properly inserted?<br>2. Has the fuse blown?<br>(Replace with fuse rated AC 250V 5A) |
| The blower does not operate even when the Power source switch and blower switch are on. | Is the filter magazine inserted in the main body properly?  |
| Machine is not sucking in smoke from soldering properly.                                | Check to see if filter is clogged.  |

# ELECTRICAL CIRCUITS



## SPECIFICATIONS

|                       |   |   |
|-----------------------|---|---|
| Rated voltage         | AC 230V   |   |
| Frequency             | 50/60 Hz  |   |
| Power consumption     | At blower HIGH 110W<br>At blower LOW 90W              |   |
| Noise                 | 70 phon or less at 30 cm off the hood end. (A scale)  |   |
| Range of suction      | Within 25 cm from filter front                        |   |
| Motor type            | 2-pole capacitor type induction motor (2-speed)       |   |
| Removing method       | Two-layer filtration type of prefilter + main filter. |   |
| Filter used           | Prefilter   | Non woven cloth filter paper in roll form<br>No. 750 (Wound length approx. 5.5 m) |
|                       | Main filter   | Non woven cloth filter paper of box form  |
| Efficiency of removal | 80% min.<br>(Measured by manufacturers)               |   |
| Dimensions            | 484mm(W) x 270mm(L) x 355mm(H)                        |   |
| Weight                | 7.5 kg  |   |