

GENESYS™ Series

Programmable DC Power Supplies

G1.7 ÷ 5kW in 1U 0-600V / 0-500A

GSP10kW in 2U 0-600V / 0-1000A

GSP15kW in 3U 0-600V / 0-1500A

Standard and Blank Panel Options

AIR FILTER KIT MANUAL



IA857-04-01B

1.1 General

The Air Filter Kit is supplied separately from the power supply packing according to order.

The usage of the air filter is according to customers' needs.

1.2 Specifications

When using the air filter kit, all the specifications of the power supply remain the same as for standard power supply, with the exceptions specified in the table below:

ENVIRONMENTAL CONDITIONS	
Operating temperature	For all models except 10V 3.4kW~15kW: 0~40°C, 100% load. For 10V 3.4kW~15kW models: 0~30°C, 100% load, For 30°C≤Ta≤40°C, derate 5A/1°C.
Altitude	Operating: Maximum 10000ft (3000m). For all models except 10V 3.4kW~15kW: Derate 1°C/100m, or 2% Load/100m above 2000m. For 10V 3.4kW~15kW models: Derate 2°C/100m, or 2% Load/100m above 2000m.

NOTE

For power supplies with Air filter option **and** optional interface installed, please contact TDK-Lambda customer support department or your local sales office.

1.3 Maintenance

Cleaning of the air filter – according to customer considerations and needs.

1.3.1 Cleaning Instructions

1. Disconnect the AC power cord from the power supply.
2. Remove the air filter according to the instructions below.
3. Clean the air filter by removing dust and dirt, which were accumulated in the filter. Low air pressure can be used gently.
4. After finishing cleaning, assemble the air filter according to the instructions below.
5. Ensure to lock the air filter assembly properly, by moving the buttons as explained below.
6. After finishing the air filter assembly, apply AC power to the power supply and ensure proper operation.

1.3.2 Assembly Instructions for Standard Panel

Standard Panel Air Filter Kit consists of two main panel parts (Dust Filter Panel Part 1 and Dust Filter Panel Part 2), three Buttons (two types – Button 1 and Button 2) and an Air Filter. Refer to Figure 1.

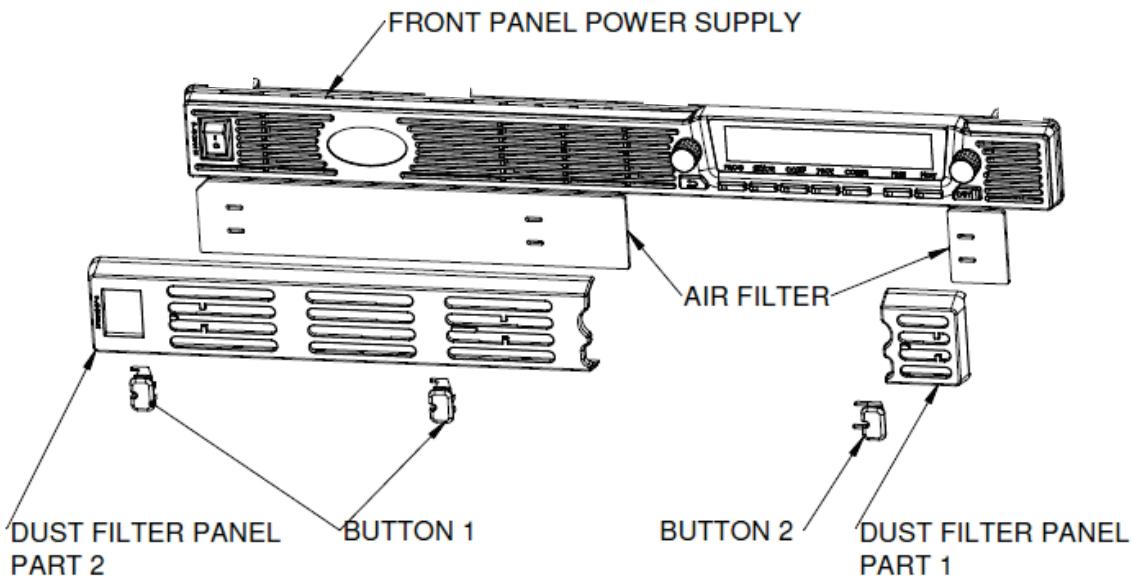


Figure 1 - Standard Panel Air Filter Kit

Step 1:

Cut the Air Filter Foam as shown in Figure 2.

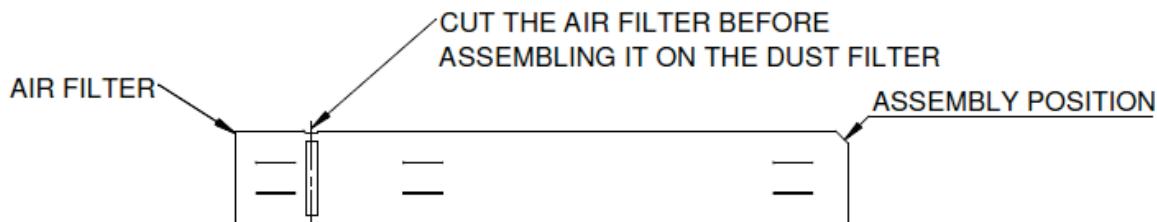


Figure 2 - Air Filter Foam

Step 2:

Assemble the Air Filter Foam into the two main panel parts as shown in Figure 3.

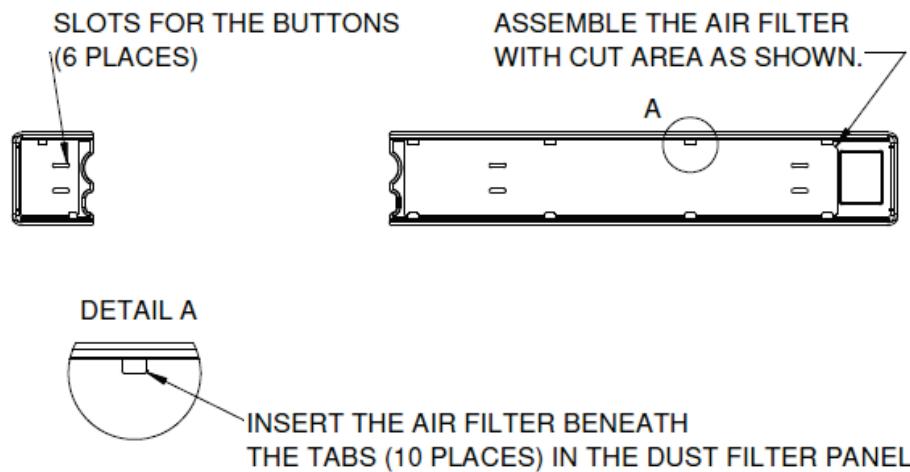


Figure 3 - Air Filter Foam Assembly

Step 3:

Assemble the buttons into the two main parts as shown in Figure 4.

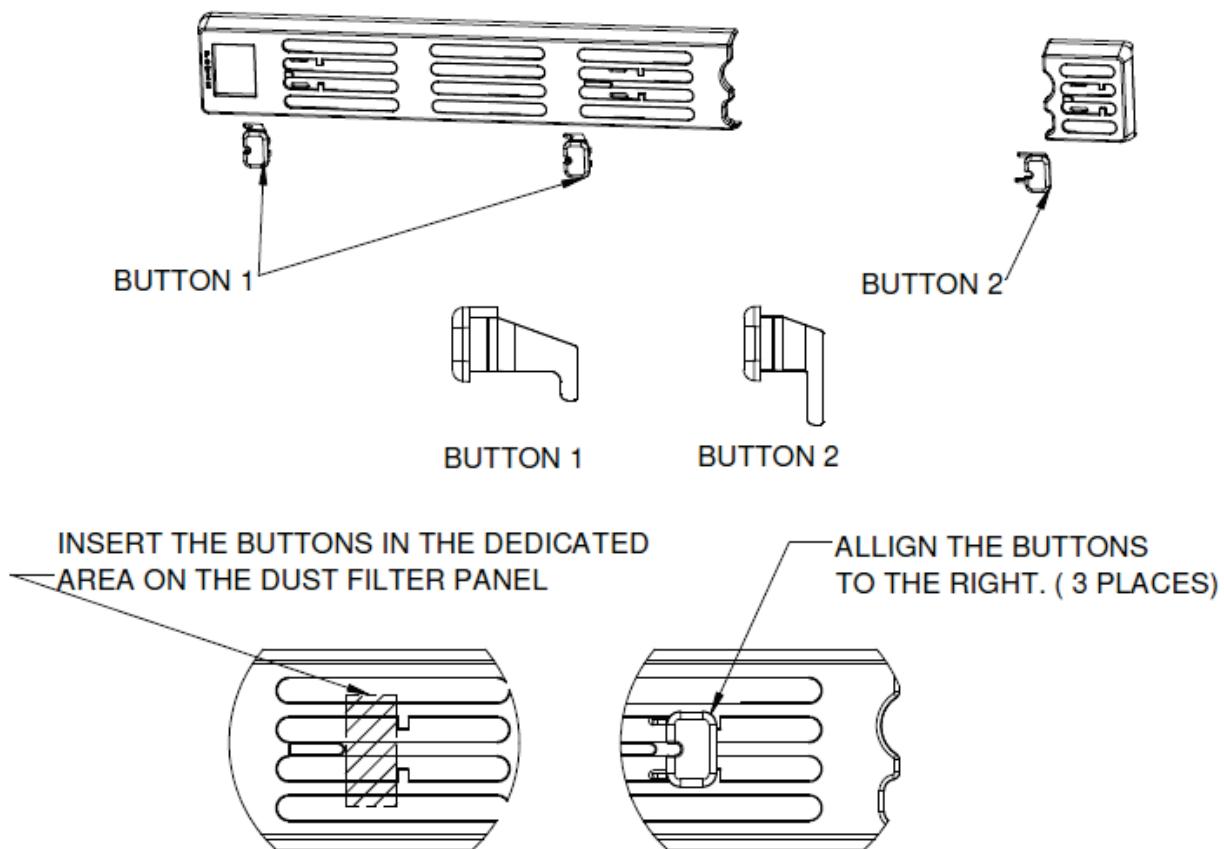


Figure 4 - Buttons Assembly

Step 4:

Fix the air filter main parts to the front panel of the power supply. Refer to Figure 5.

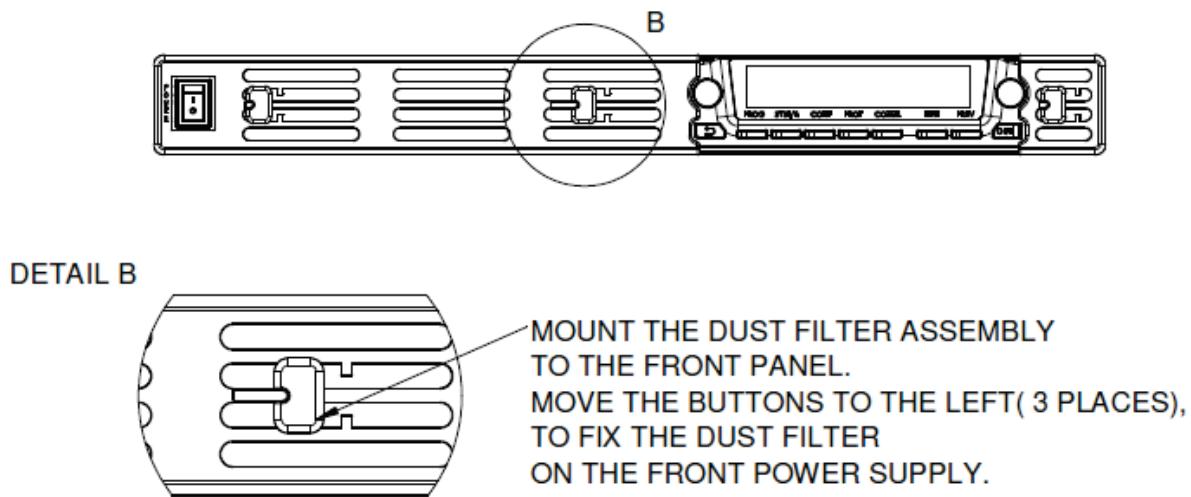


Figure 5 - Main Parts Assembly

1.3.3 Assembly Instructions for Blank Panel

Blank Panel Air Filter Kit consists of one main panel part (Dust Filter Panel), two Buttons (of the same type – Button 1) and an Air Filter. Refer to Figure 6.

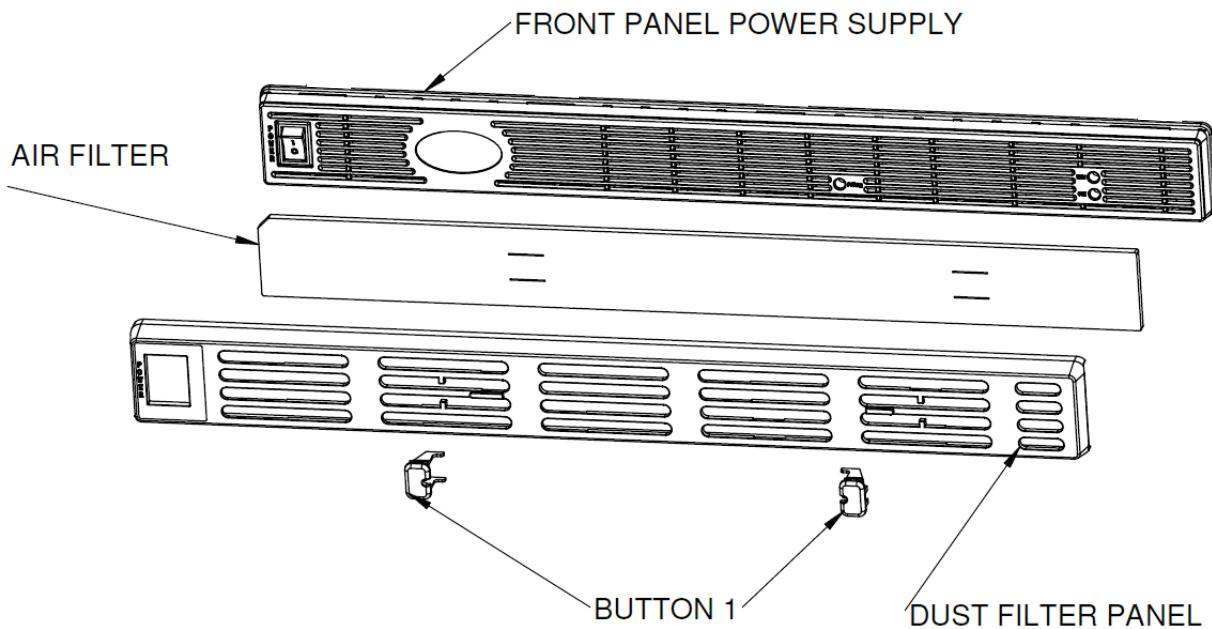


Figure 6 - Blank Panel Air Filter Kit

Step 1:

Assemble the Air Filter Foam into the main panel part as shown in Figure 7.

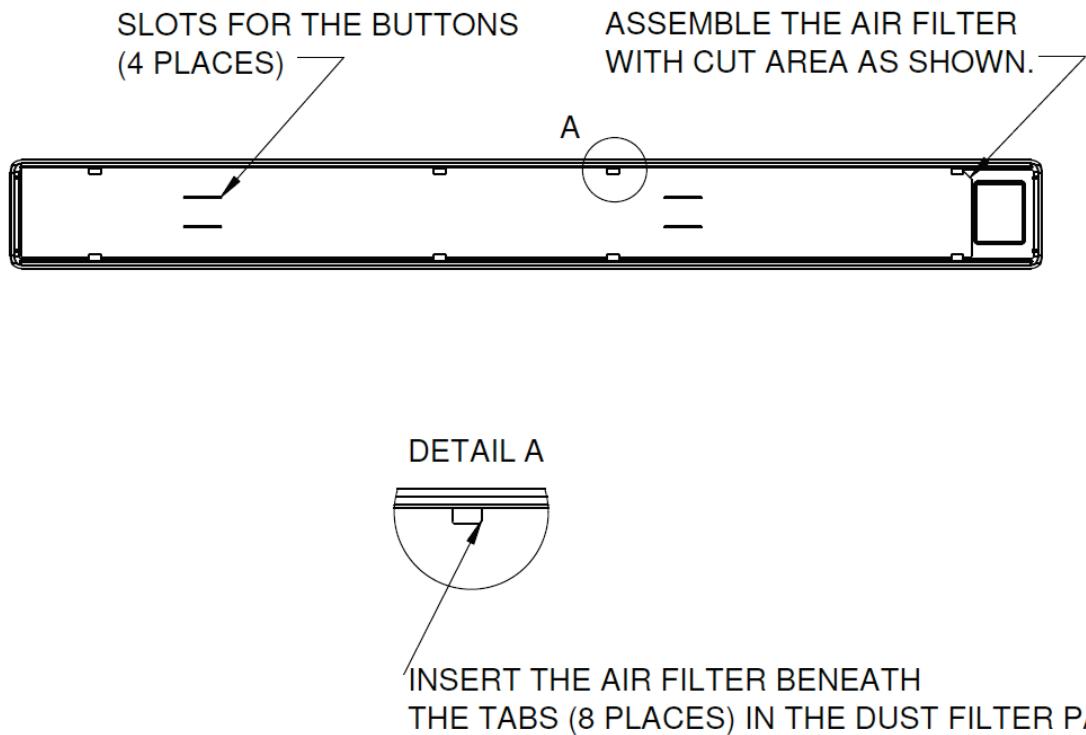


Figure 7 - Air Filter Foam Assembly

Step 2:

Assemble the buttons into the main part as shown in Figure 8.

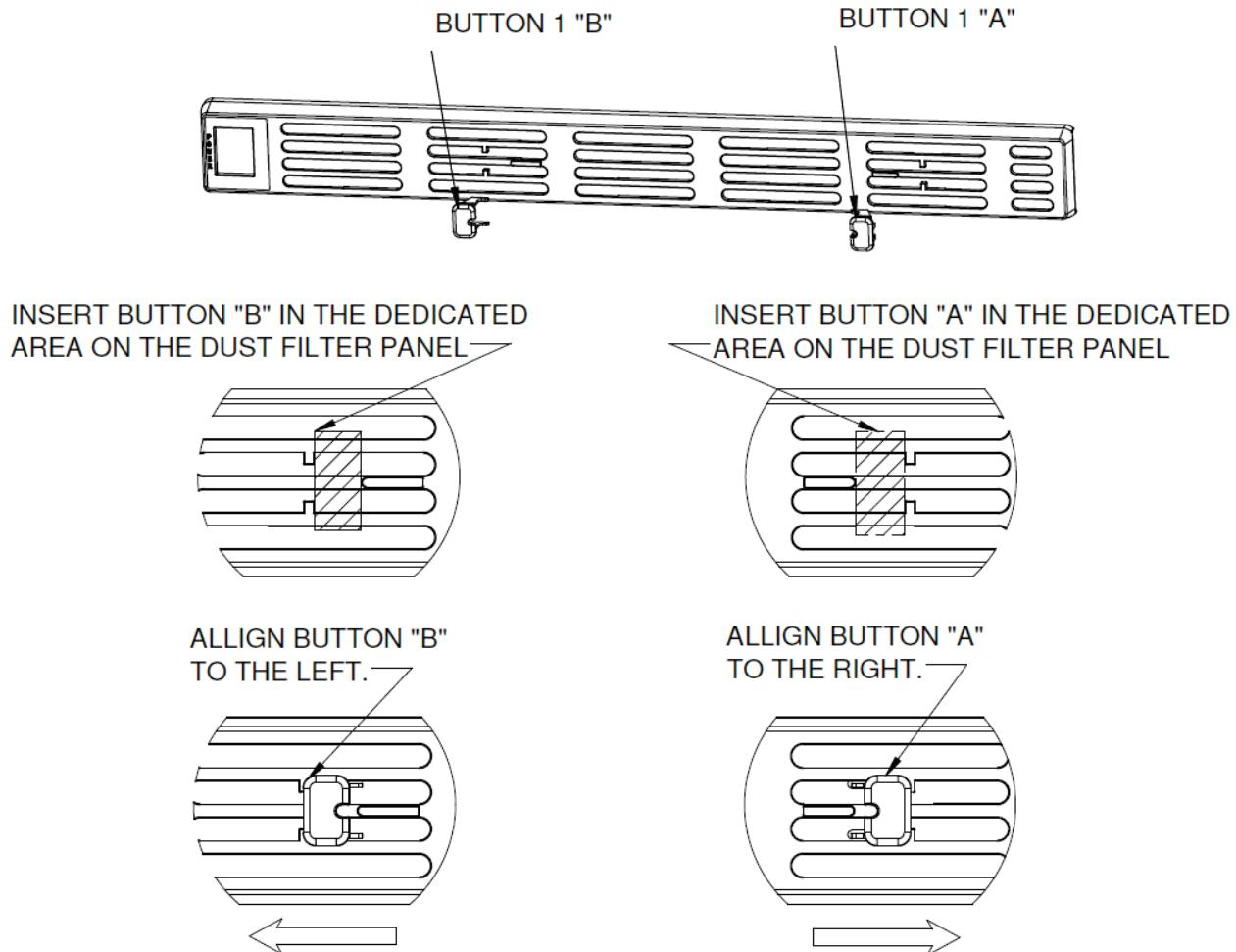


Figure 8 - Buttons Assembly

Step 3:

Fix the air filter main panel part to the front panel of the power supply. Refer to Figure 9.

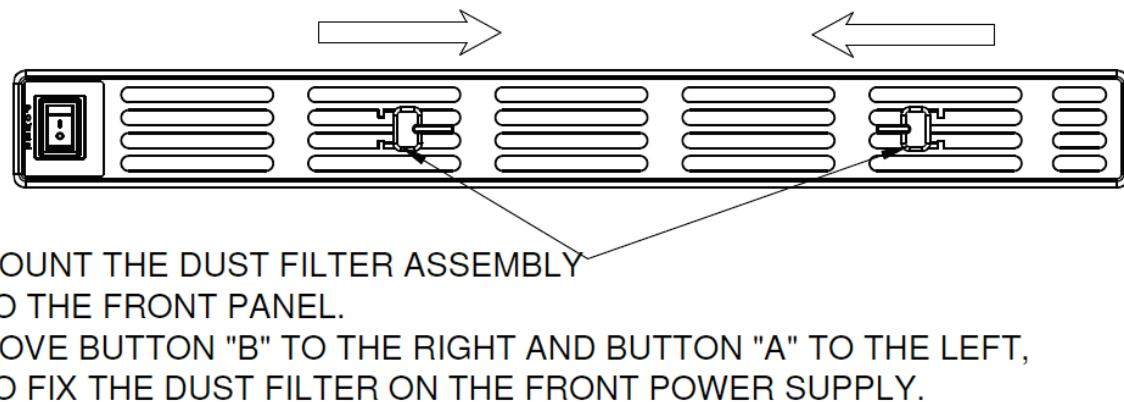


Figure 9 - Main Part Assembly

1.3.4 Assembly Instructions for 10kW/15kW Booster Panel

Booster Panel Air Filter Kit consists of one main panel part (Dust Filter Panel), two Buttons (of the same type – Button 1) and an Air Filter. Refer to Figure 10.

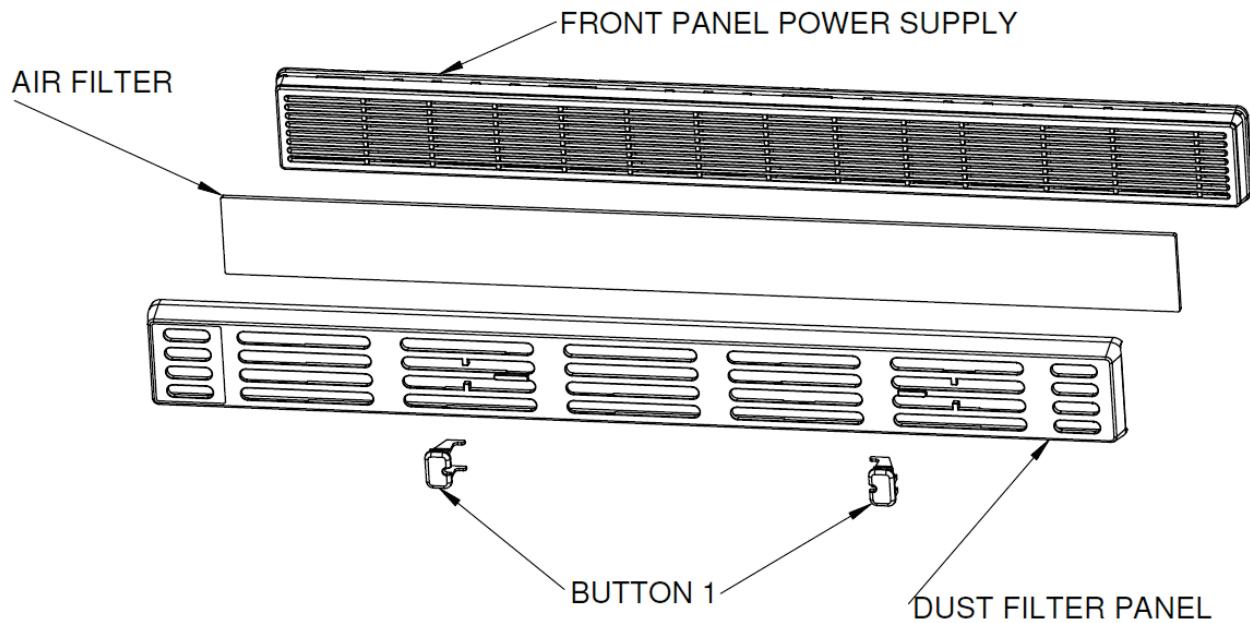
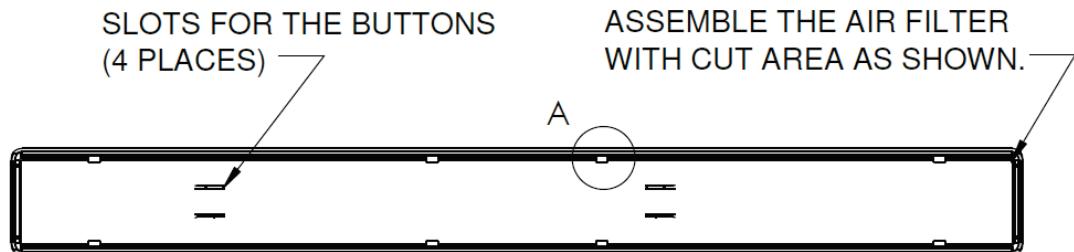


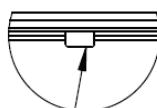
Figure 10 - Blank Panel Air Filter Kit

Step 1:

Assemble the Air Filter Foam into the main panel part as shown in Figure 11.



DETAIL A



INSERT THE AIR FILTER BENEATH
THE TABS (8 PLACES) IN THE DUST FILTER PANEL

Figure 11 - Air Filter Foam Assembly

Step 2:

Assemble the buttons into the main part as shown in Figure 12.

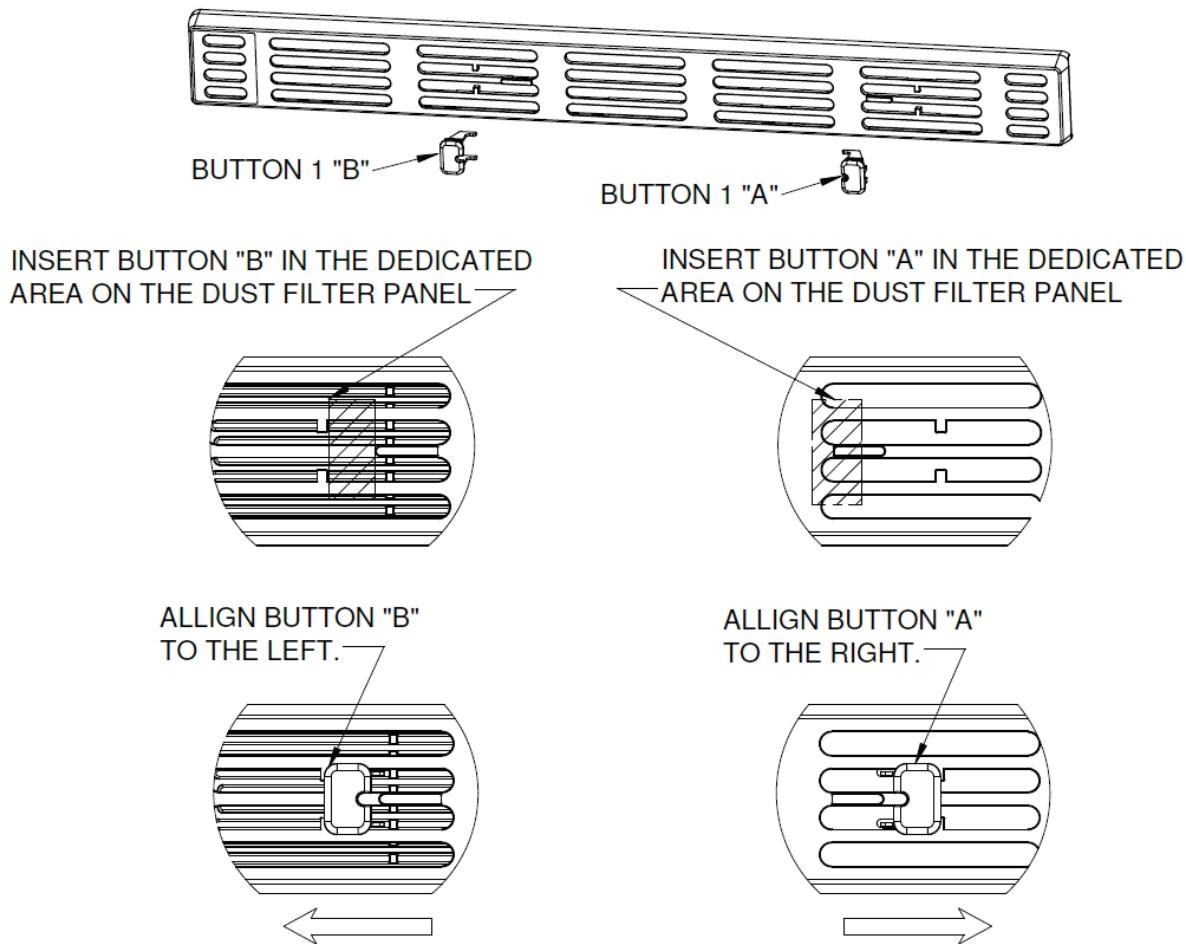


Figure 12 - Buttons Assembly

Step 3:

Fix the air filter main panel part to the front panel of the power supply. Refer to Figure 13.

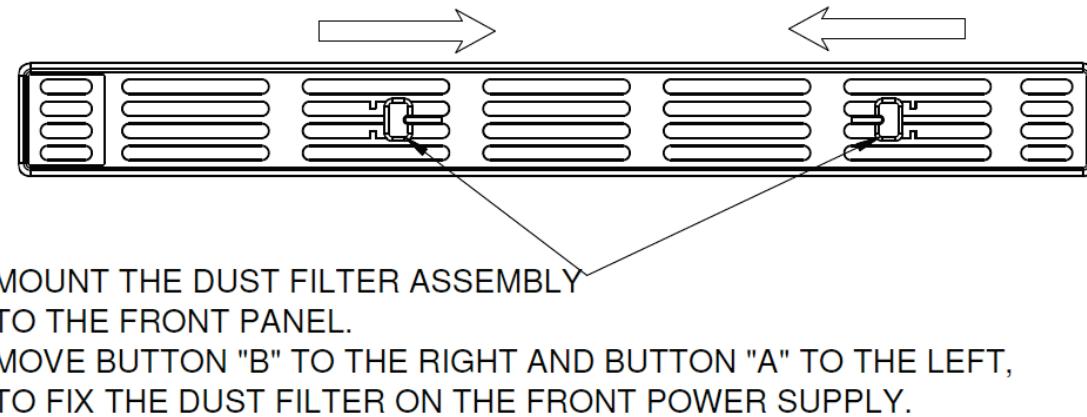


Figure 13 - Main Part Assembly