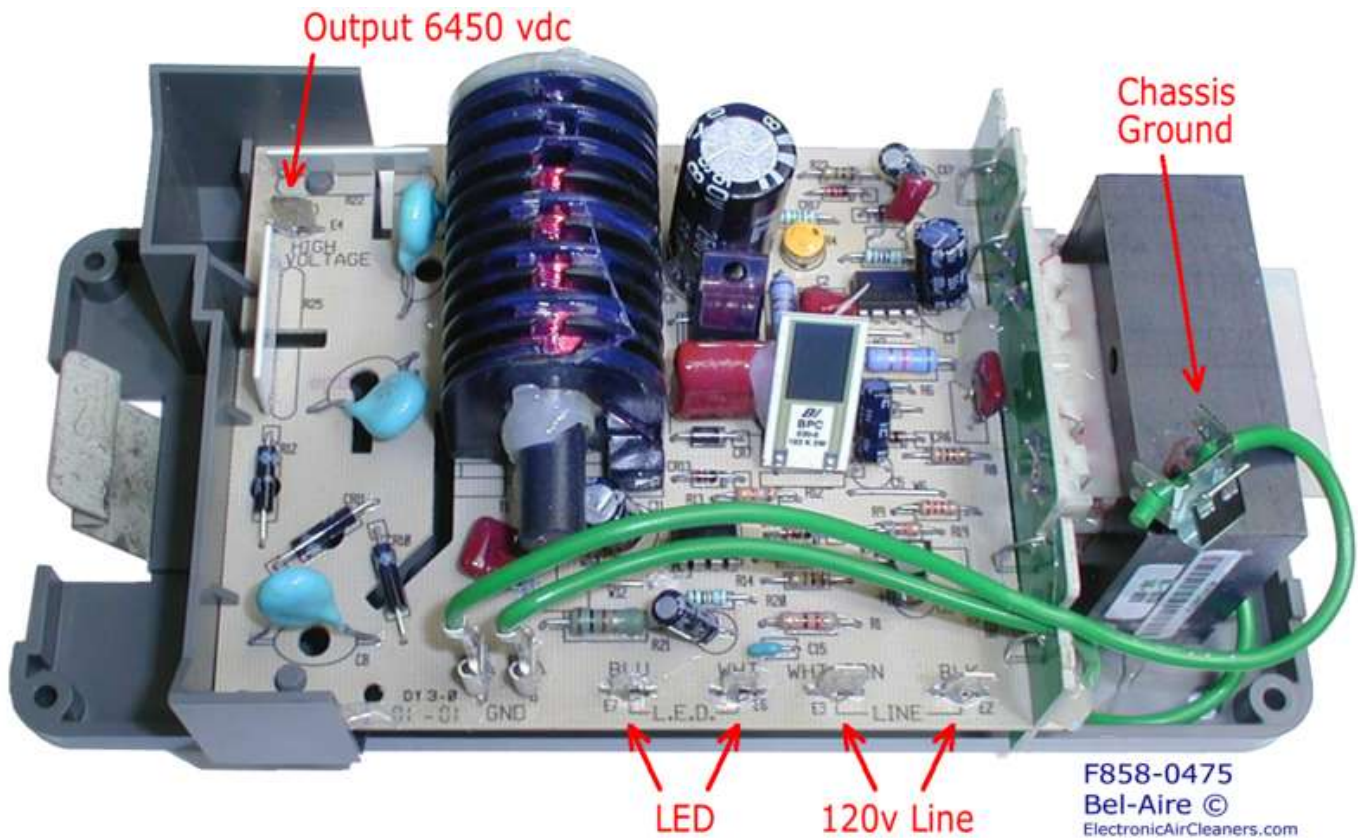


# Electro-Air Power Supply

Part Number F858-0475  
Formally F858-1000 & F858-1001

**Bel-Aire**  
Tech Note ©  
Nov 2002

This power supply generates the high voltage that powers the collecting cell. The F858-0475 is used in current production air cleaners and the replacement for most previous part numbers. The F858-0475 includes the power supply and LED. The F858-1002 is a kit that includes the power supply, LED and air flow sensor switch.



## Compatibility Warning:

Air Flow Sensors (AFS) that are compatible with this new replacement power supply are identified by a star (\*) located in the corner, see [AFS Tech Notes](#).

Neon lamp indicators are not compatible with this new replacement power supply and need to be replaced with an LED. See the photo of a neon lamp in the [LED replacement instructions](#).



## Specification:

The power supply takes 120 vac input and outputs 6450 vdc, max 5 mA. The power supply also has output connectors for an LED that indicates when the output voltage is within specification. This power supply with LED (F858-0475) is a versatile stand alone module suitable for retrofit use.

## Test:

When 120v is applied to the input, the supply will output 6450 vdc nominal. When the output is within the spec range, the LED will light. A high voltage meter is not necessary, if the LED is ON, the voltage is good. Professionals in the field may use a [Spark test](#) expecting to see 1/16" thin repeating spark. If the supply is connected to the cell the spark will be significantly more, a 1/4" zapping spark.

Measuring the voltage at the LED terminals (both load/noload) does not seem to register with our Fluke DVM and 15 mV on our Simpson, current is approx. 2½ mA. Measuring the resistance of the LED (disconnected) was infinite with either polarity.

F858-0903: Neon output measures 11½ vac no-load. Other measurements are the same as the F858-0475.

## Dimensions:

The snap-in base is 3½ x 8 inch, height 2¾ (max). 1/8 diameter holes in base on 3 x 7½ inch center. Overall width is 4 inches.

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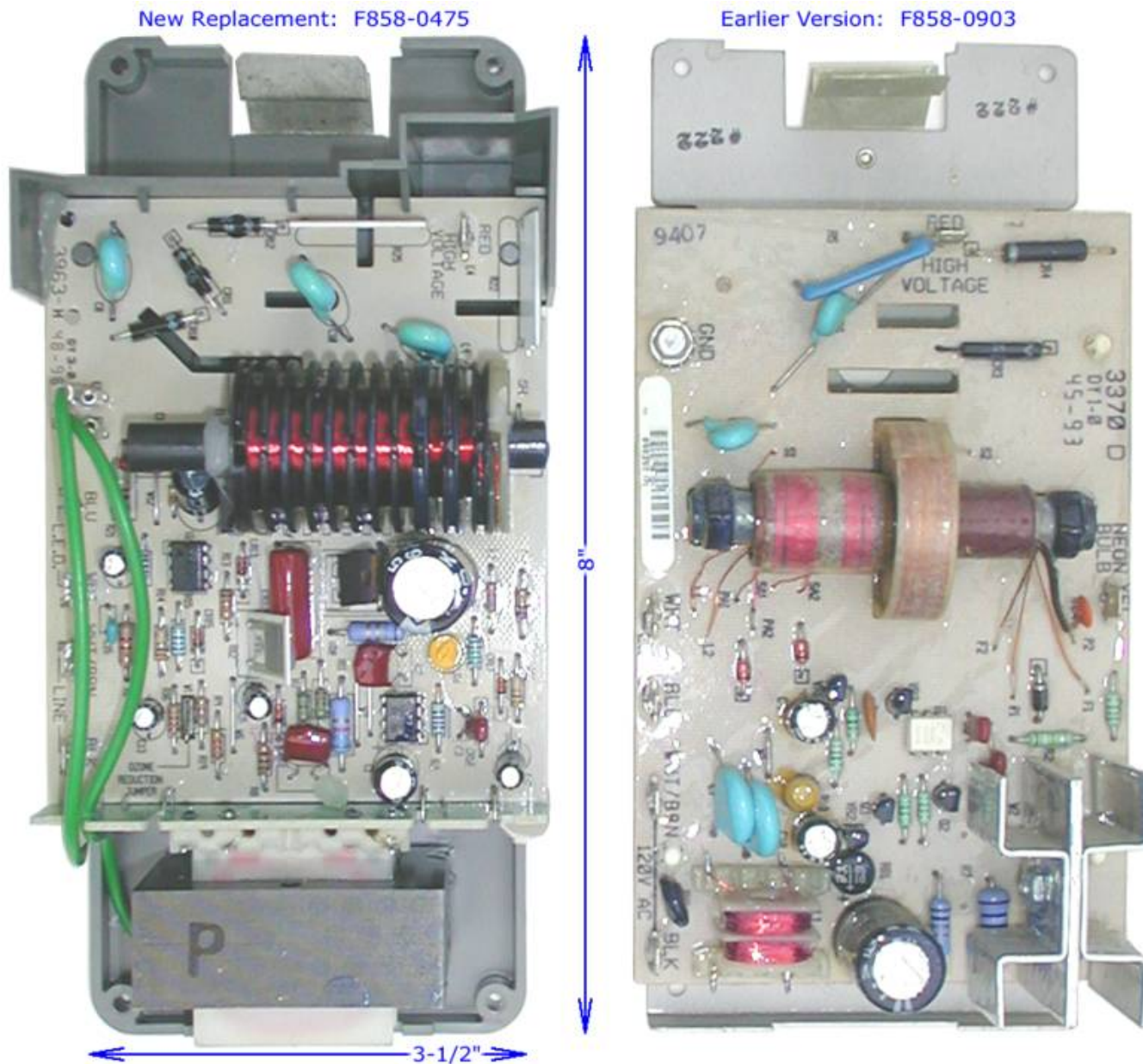
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## Cross Reference:

Current P/N	Replaces these previous part numbers
F858-0475	F858-0216, F858-0238, F858-0303, F858-0368, F858-0369, F858-0405, F858-0414, F858-0415, F858-0448, F858-0488, F858-0574, F858-0585, F858-0622, F858-0705, F858-0706, F858-0707, F858-0708, F858-0903, F858-0912, F858-1000, F858-1001

## F858-0903 replaced by new F858-0475:



The F858-0903 has a connection for a neon lamp that does not exist on the F858-0475.