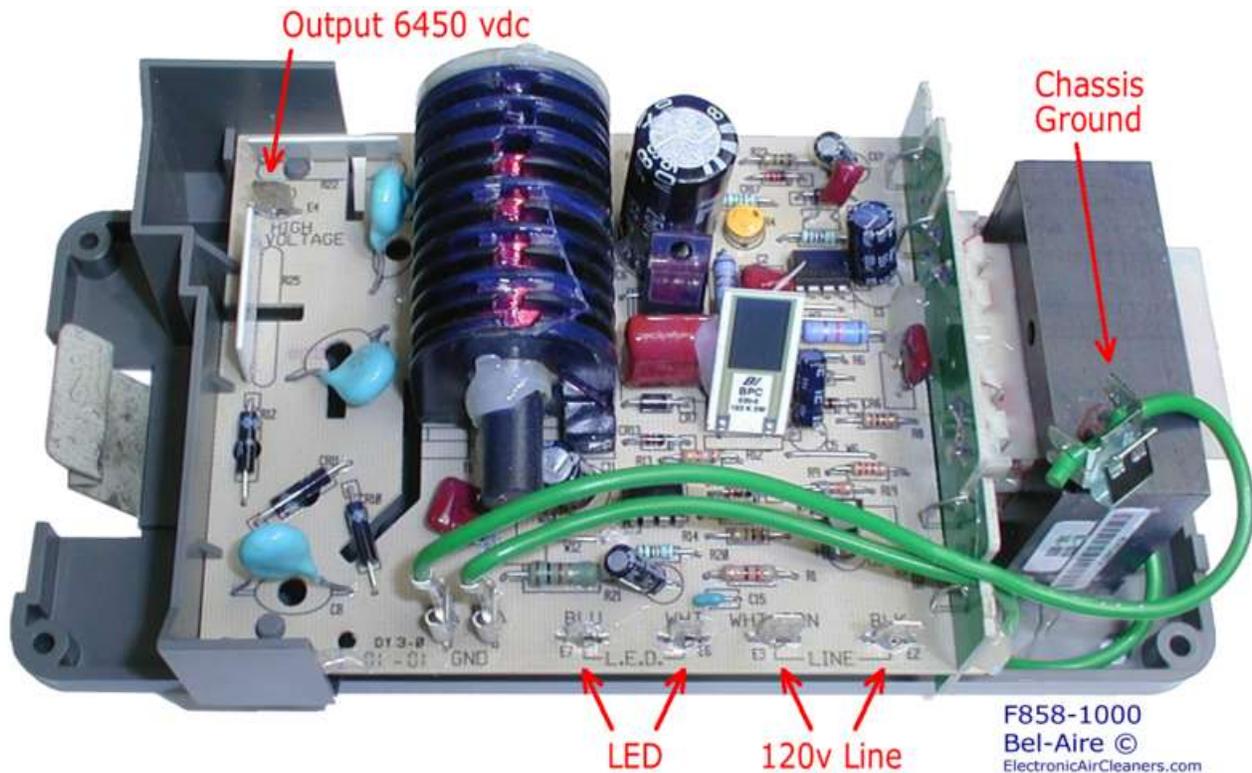# Electro-Air Power Supply

The power supply generates the high voltage that powers the collecting cell. The F858-1000 is used in current production and the replacement for many previous part numbers. The F858-1001 is a repair kit that includes the power supply and LED, the F858-1002 kit includes power supply, air flow switch, and LED.

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 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 (F858-1001) 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.

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 appox. 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 same as F858-1000.
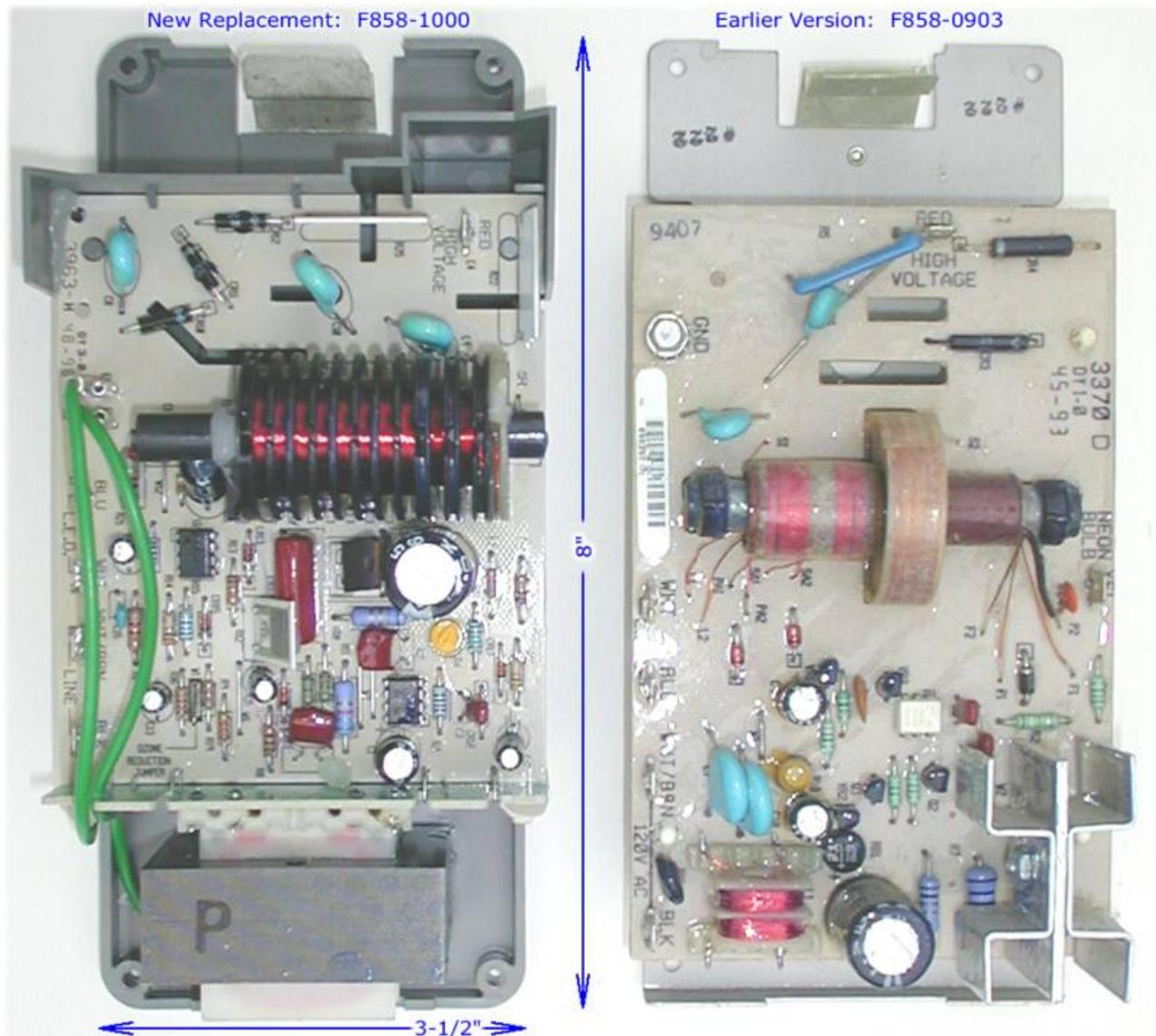
Dimensions:

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.

Electro-Air Power Supply

Cross Reference:

Current P/N	Replaces these previous part numbers
F858-1000	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

F858-0903 replaced by new F858-1000:

If your unit has an indicator lamp that connects to the Neon connector, replace indicator with LED.