For the installation of DC-DC Converter, Base and Collector wires have been fitted in the power supply in PT-101EX. The Converter kit can ensure successful DC operation of the Transceiver.

PARTS REQUIRED:

1) Transistor Q₁ Q₂ 2N4280  
2) Heat Sink  
3) Heat Sink Cover  
4) Heat Sink Clamp  
5) Screw M3 x 25  
6) M3 Flat Washer  
7) M3 Spring Washer  
8) DC Cable (with 12 P Square Plug)  
9) Fuse 20 A  
10) Tapping Screw M3 x 6  
11) Insulator 1429-A  
12) MP Condenser 0.47 uF 60V  

INSTALLATION:

1) Remove the nylon clamp from the back panel and remove also the vinyl tube from the wires.

2) Take the protection paper off from the Insulator and stick the insulator on the back panel.

3) Fix the Heat Sink Clamps on the back panel as illustrated in Figure 1.

4) Connect the wires coming from the back panel to each transistor as shown in Figure 2. Make sure each wire is soldered well.

5) Use the four screws M3 x 25 to install the Heat Sink and its cover.

6) Change the AC power cord to DC power cord.
STARTING CHECK-UP

1) Both Power and Heater Switches off for starting.

2) Connect the DC Power Cord to either 12 Volt battery or 11.5 Volt power unit, connecting the red cord to the (+) side and the black cord to the (-) side of the battery.

3) Set the Power Switch on. Advance the AF GAIN Switch. Then make sure that the Receiver noise is heard for normal operation.

4) Set the Heater Switch on, ensure the DC-DC Converter works and the fan motor runs. When the fan motor does not function, reverse the Yellow and Green wire connections for a proper polarity.