

# PTMP Charger Module

## Cooling Fan Replacement Instructions

(Replacement Fan P/N: 447-1238-0)

**Warning:** Disconnect AC power and batteries from charger before proceeding.

**Note:** A Module # x Failure alarm on display screen may indicate a failed fan. Each module incorporates two high speed cooling fans. If you suspect a fan failure within the charger module, please follow the following fan replacement instructions.

1. Identify module(s) with defective cooling fan(s) and unplug module from PTMP chassis, see PTMP Installation/Operation manual **Section III** for instructions on opening/front panel access.
2. Remove the module with defective fan, see PTMP Installation/Operation manual **Section XI** for instructions on module replacement. **Note:** Do not remove all modules with battery connected, as the control board will be damaged.
3. Identify the charger module fan end cover assembly (Fig. 1) where the two fans are located and remove the four small M3 Philips flat head screws that secure it to the module chassis (Fig. 2).
4. Carefully pull the fan end cover assembly away from the module chassis (Fig. 3).
5. Identify the two 4 pin fan connectors and the 3 pin LED connector (Fig. 4). Using a pair of needle nose pliers unplug the two fan connectors and the small LED light connector. **Note:** It is recommended that you always replace both fans whenever one fails.
6. Remove the two 1-1/4" long M3 fan mounting screws from each fan (Fig. 5).
7. Install the replacement fans ensuring the air flow arrow on fan housing is pointing into the charger module, blowing in cool air (Fig. 6). The fan leads should be next to each other in the center of fan end cover assembly in order for the fan connectors to meet the mating connectors inside the charger module (Fig. 5). Tighten the four fan mounting screws.
8. Once replacement fans have been installed, using needle nose pliers re-connect the fan lead connectors to the mating connectors inside module (Fig. 4), it does not matter which connector the fan is connected to. Re-connect the 3 pin LED lead connector. All connectors are keyed and will install in one direction only.
9. Carefully slide the fan end cover assembly back on to the end of the charger module chassis ensuring the fan and LED leads do not become pinched between the end cover assembly and charger module chassis.
10. Re-install the four small M3 flat head screws that secure the fan end cover assembly and tighten.
11. Re-install charger module, close front cover and re-connect AC power and confirm module failure alarm has cleared.

Fig. 1



Fig. 2

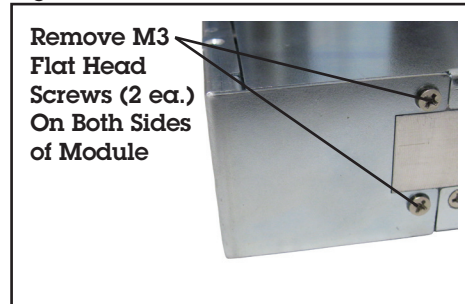


Fig. 3



Fig. 4

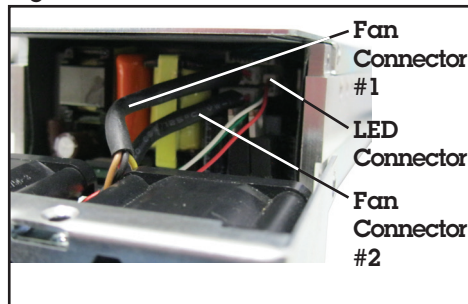


Fig. 5

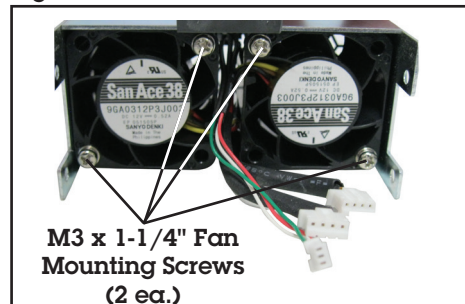
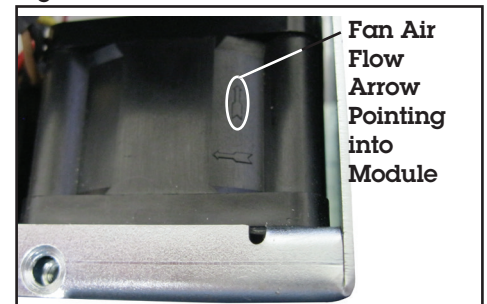


Fig. 6



**newmarpower**

M-PTMP-MODFAN  
As of 011117