

## Alpha Technologies Method of Procedures: Replacing a Fan on an AMPS Inverter Module and Resetting the Fan Life Elapsed Alarm

The procedure describes how to replace the fan of the inverter module and how to reset the Fan Life Elapsed alarm on the AMPS 24: 0260011-XXX & 0260012-XXX, and the AMPS 80: 026-068-XX & 026-069-XX systems, using Cordex controllers with part numbers, 018-599-20-040 (CXCU) and the 018-557-20-342 (CXCR). This MOP has two procedures: the Fan Replacement and Resetting the Fan Life Elapsed alarm.

### Tools Required

- Various hand tools; including a 3mm flat screwdriver
- Computer or laptop
- Ethernet cable to communicate with the controller
- Replacement fan assembly: P/N 7400026, Fan Assy
- Spare inverter module

**Attention: When resetting the fan counter on the modules, ensure there is at least one module that does not have a Fan Life Elapsed alarm. If all modules are in Fan Life Elapsed, it displays as a System Alarm and spare Inverter module is required.**

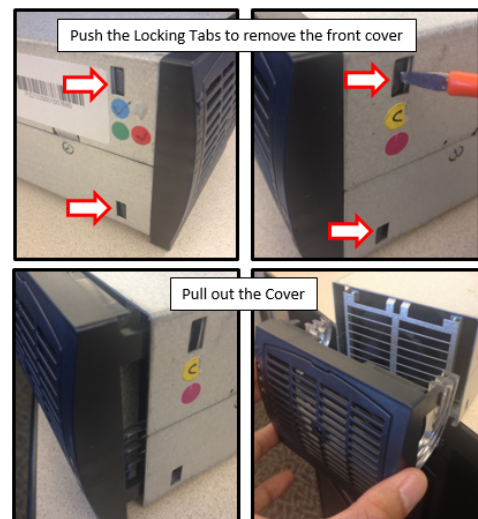
### *Before starting the replacement procedures do the following:*

- Confirm there are no controller alarms present other than Fan Life Elapsed
- If there are, fix these alarms before starting these procedures
- Make sure there is enough redundancy (per phase) before proceeding
- Follow any maintenance procedure(s) that are required to maintain power flow

## Procedures

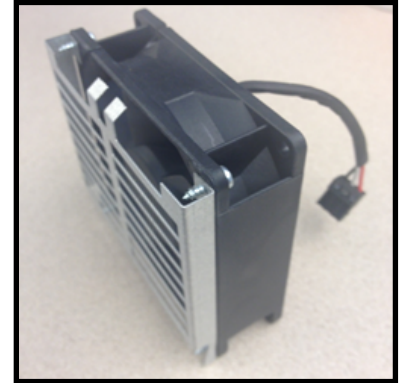
### 1. Fan Replacement

1. Make a note of all modules that need fan replacement.
2. Pull out the first module.
3. Using a flat screwdriver, remove the front cover of the inverter module by pushing the four locking tabs as shown.  
Note: there are two tabs on each side.
4. Once the cover is removed, carefully pull out the fan and unlock the wire connector as shown.



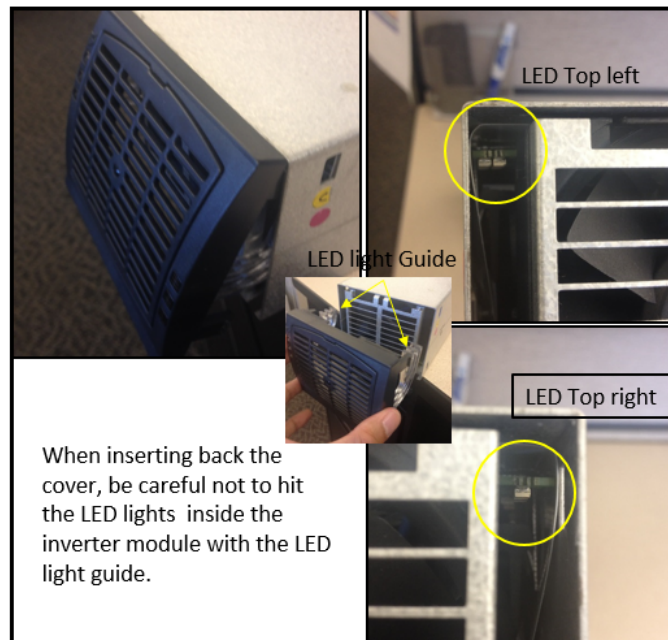


Pull the fan out carefully, not all the way, just enough to access the connector and unlock it with a flat screwdriver.



P/N: 7400026, Fan Assy, AMPS

5. Insert a new fan into the inverter module. Before securing the fan, plug in the connector.
6. Once the fan is in place, reattach the front cover. Be careful not to damage the LEDs inside the module by making contact with the LED light guide.
7. See picture below for proper insertion. Using an angled approach, with the top side as first, insert the front cover all the way in until the locking tabs are secured.



8. Reinsert the module into the AMPS system. Once the unit is back online, pull out another module and repeat steps 1 through 8 for all modules that need a replacement fan.

## 2. Resetting Fan Life Elapsed Alarm

**Note:** Ensure that the Cordex controller software is at a minimum: v2.039 for the AMPS 80, and v3.14 for the AMPS24. If an update is required, this software can be downloaded from [www.alpha.ca](http://www.alpha.ca); go to Support > Software/Firmware Downloads > AMPS Systems.

**Attention:** When resetting the fan counter on the modules, ensure there is at least one module that does not have a Fan Life Elapsed alarm. If all modules are in Fan Life Elapsed, it displays as a System Alarm and spare Inverter module is required.

If all modules in the system have fan life elapsed alarm, the Reset button as shown below will not display, and it will not show which modules are in alarm. The Fan Life Elapsed alarm will only display as a System Alarm. In this case a spare Inverter module is required.

1. Pull out one of the modules from the system, and then plug in the spare module.
2. Wait until the controller recognizes the new module and turns green. If the reset button does not display, refresh the web interface.
3. Click the Reset button to clear the alarm from the modules.
4. Once done with all the modules, pull out the spare, and re-insert the original module.
5. Reset the alarm.

System | Controller | Converters | **Inverters** | Rectifiers | Batteries | Alarms | Signals | Controls | Communications | Hardware | Logs and Files | Supervisor

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Inverters > [View Live Status](#)

**Inverter Report**

Module Number	Serial Num.	Version	ACIn-DCIn-ACOut	Input Frequency	ACIn	DCIn	ACout	Temperature	
1	2810	192	1-1-1	60.0Hz	120.5V 454VA	55.1V 0.0A	460VA 3.8A 444W	33°	
2	3807	192	1-1-1	60.0Hz	120.4V 497VA	53.9V 0.0A	480VA 4.0A 461W	31°	
3	1711	192	1-1-1	60.0Hz	120.6V 513VA	56.4V 0.0A	522VA 4.3A 484W	30°	
4	1604	192	1-1-1	60.0Hz	120.5V 472VA	55.8V 0.0A	478VA 3.9A 461W	30°	
5	1819	192	1-1-1	60.0Hz	120.4V 521VA	55.3V 0.0A	495VA 4.1A 472W	31°	

**Inverter Alarms**

21: 81 : Fan Life Elapsed	Reset
29: 81 : Fan Life Elapsed	Reset
22: 81 : Fan Life Elapsed	Reset
1: 81 : Fan Life Elapsed	Reset
11: 81 : Fan Life Elapsed	Reset
12: 81 : Fan Life Elapsed	Reset
2: 81 : Fan Life Elapsed	Reset

**System Alarms**

**End of Method of Procedures**

**For assistance, contact Alpha Technical Support:**

Toll Free North America: 1-888-462-7487

International: +1-604-436-5547

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