

Unidrive SP Fan Replacement

This document pertains to Unidrive SP Sizes 1-2



The Unidrive SP employs a cooling fan attached to the heat sink to ensure proper heat dissipation. An over accumulation of dust and debris may cause the fan to fail. The integral fan can be replaced with relative ease. This document will assist in the removal of a defective fan and the installation of a new replacement fan assembly.



SP Size 1 Fan
P/N: 3251-0814-01



SP Size 2 Fan
P/N: 3251-0824-01

TOOLS NEEDED:

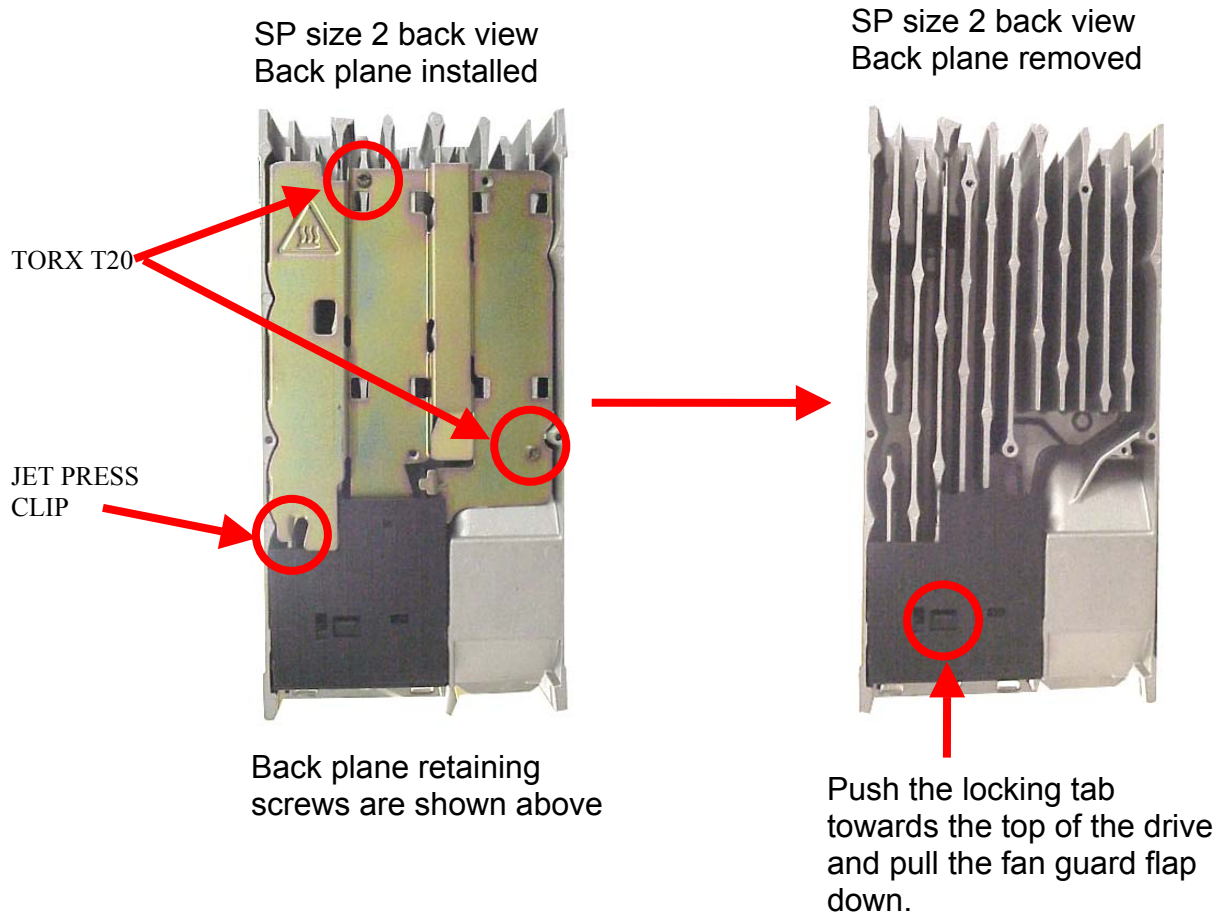
- 1) Torx T20 screwdriver
- 2) Large Flat Head Screwdriver
- 3) Small Flat Head Screwdriver
- 4) Additional tools may be needed to remove the drive from the enclosure.

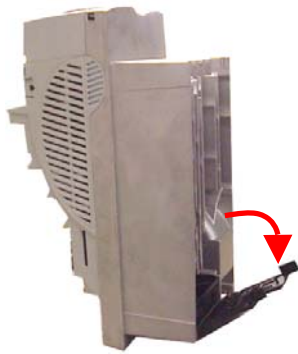
WARNING: **ALLOW SUFFICIENT TIME FOR THE DRIVE TO DISCHARGE**
Recommended Time is 10 minutes after power down
Measure from DC+ to DC- to ensure the buss voltage has fully discharged.



DO NOT ASSUME POWER IS OFF BECAUSE THE DRIVE DISPLAY APPEARS DEAD OR NO FANS ARE HEARD. THE VOLTAGE APPLIED TO THIS DRIVE CAN BE LETHAL IF TOUCHED !

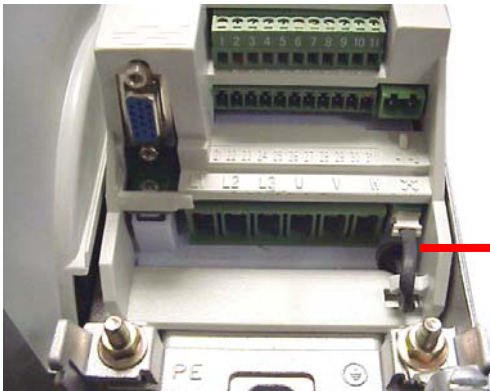
The SP Size 1 and Size 2 fans are removed in the same manner. The only difference may be the presence of a back plane on the Size 2 models. This backplane is usually needed for through panel mounting or with zero space braking resistors. **If you have a size 1 follow the instructions but disregard the back plane removal.**



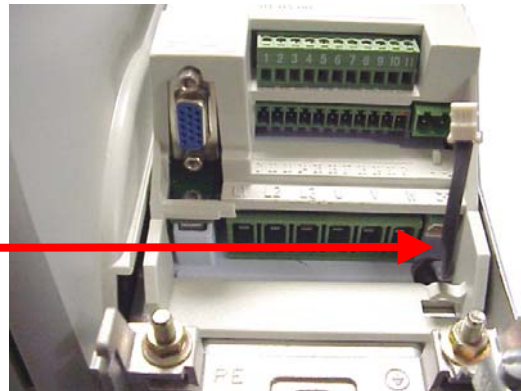


Hinge down the fan guard flap as shown to the left

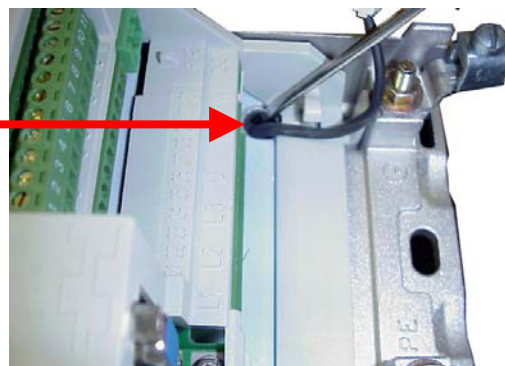
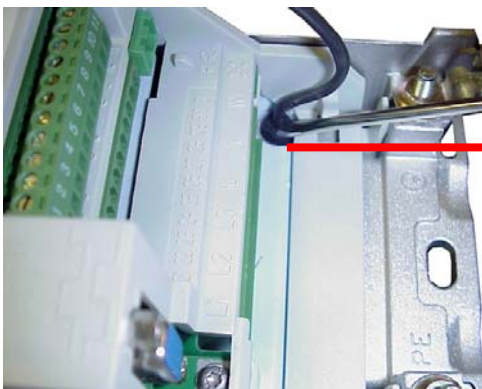
The next step is to disconnect the fan from the drives +24VDC connection. This connection is located to the right of the power terminal strip. Again this is the same for size 1 and size 2 drives.



+24VDC Fan connection location



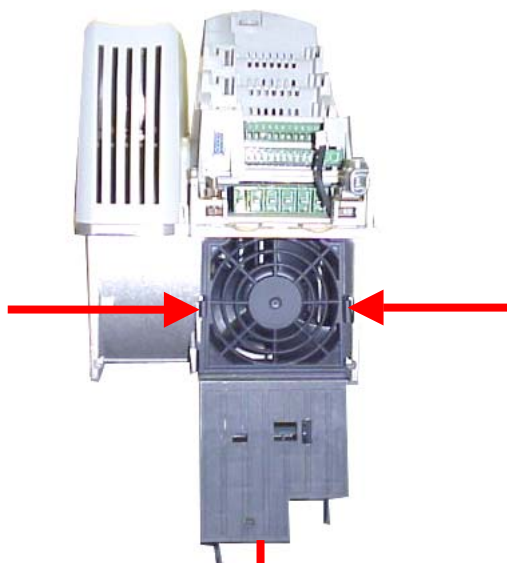
+24VDC Fan connection disconnected



Use a screwdriver to push the grommet through the heat sink. Use care not to damage the +24VDC wire that it protects.

Push the fan guard retaining tabs towards each other and pull down on the fan. The fan will now slide out of the heatsink. The fan guard can be removed from the fan. There are four plastic tabs in the corners. A flat head screwdriver can be used to pry the two apart. Use caution not to break the tabs or the guard will not fit securely to the replacement fan.

Push the two tabs shown to the left towards the middle of the fan.



Slide the fan assembly out of the heatsink.



Once the fan is out of the heatsink remove the fan guard.



Use your flat head screwdriver to remove the fan guard.



Install the fan guard on the replacement fan. Reverse these steps to re-assemble the fan portion of the drive. If you need assistance contact the number below.



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