

Unidrive SP Fan Replacement

This document pertains to Unidrive SP Size 3



The Unidrive SP employs a cooling fan attached to the heatsink to ensure proper heat dissipation. The Unidrive SP size 3 chassis utilizes an additional fan to cool the buss capacitors as well. An over accumulation of dust and debris may cause either of these fans to fail. The best prevention to fan failure is to mount the drive in the proper enclosure to limit contaminants from entering the drive. The integral heatsink 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. If the buss capacitor fan needs replacement call Technical Support. Contact information can be found at the end of this document.



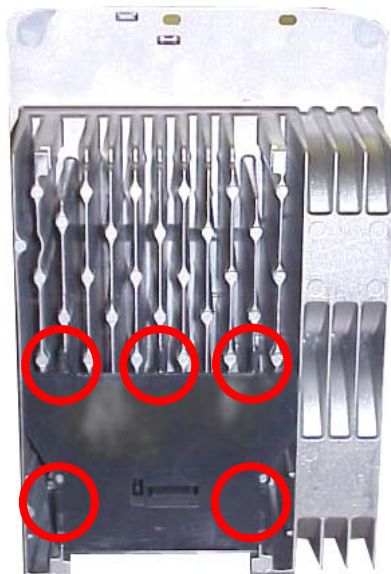
SP Size 3 Fan
P/N: 3251-2038-00

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 first step to removing the main heat sink fan will be to release the jet press clips. These clips hold the fan shroud flap to the heat sink. Use a small screwdriver to carefully pry them off. Save the jet press clips. The picture below shows their location.



SP Size 3
Back View

The fan guard flap shown below needs to be hinged down. This is done after all five jet press clips have been removed.

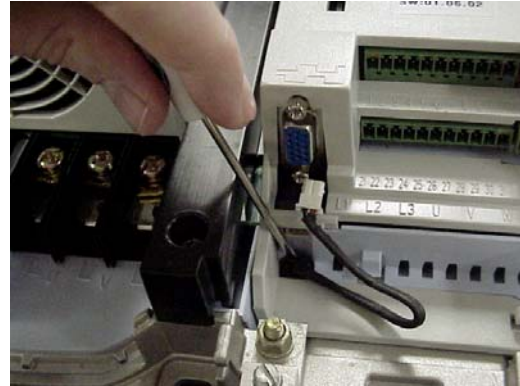


1.)



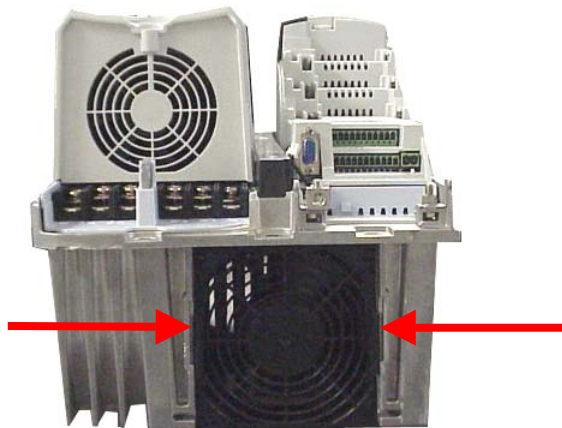
Disconnect the 24VDC power lead for the fan. It connects to the power board at the location shown above.

2.)



Use a small screwdriver to push the 24VDC wire grommet through the heat sink. Use caution not to damage the wire it protects.

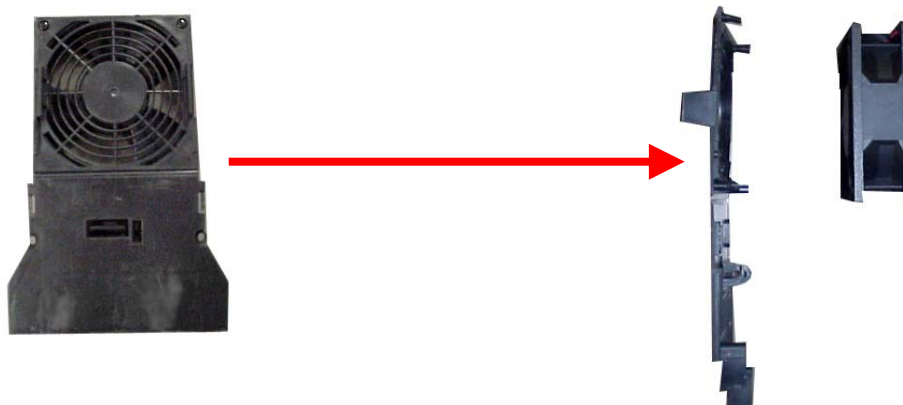
3.)



Position the drive so the fan is facing towards you. Push the retaining tabs in towards the center of the drive.



Pull down on the fan assembly. The fan and the fan guard will slip out of the heat sink in one piece.



Use a screwdriver to pry the guard off of the fan. Use caution not to break the prongs that hold the two together. Simply install the replacement heatsink fan by reversing the steps in this guide.