 ABB Oy, Drives Service	On-Site Service Instructions	Document nbr 3AXD10000303478	
	ACx580-01 R0-R5	Related to material	
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1.2 Content

The purpose of this document is to specify on-site maintenance and repair actions of ACx580-01 frame sizes R0 – R5. Following actions are included in this document:


- Control unit replacement
- Cooling fan replacement

1.3 Required tools

- ESD field service kit
- Cross head screwdriver
- Flathead screwdriver
- Torxhead screwdriver

1.4 Maintenance schedule

Maintenance schedule is available at ABB library. Contact your local ABB representative for more information.

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2. Preventive maintenance actions

2.1 Heat sink temperature check and cleaning

Need for heat sink temperature check and cleaning depends on the dustiness of the environment. The heat sink fins pick up dust from the cooling air. The drive runs into over temperature warnings and faults if the heat sink is not clean. Too high operating temperature causes faster aging of the drive components. In a normal environment the heat sink should be checked annually and cleaned if needed, in a dusty environment more often. Heat sink must also be cleaned when replacing a cooling fan.

NOTE! Compressed air or normal vacuum cleaner must **NOT** be used to clean any other parts of the drive than heat sink only. Airflow causes a high risk of ESD damage to components. Fan must also be removed before cleaning with compressed air. Otherwise strong air flow will affect fan bearings.

2.1.1 Heat sink cleaning

- a. Turn off the main input power of the drive
- b. Remove the cooling fan
- c. Blow clean dry compressed air from the bottom
- d. Use a vacuum cleaner on top to trap the dust
- e. Install the cooling fan