

Total Access 19-Inch Fan Filter Installation and Maintenance Practice

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1. GENERAL

This practice is an installation and maintenance guide for the ADTRAN Total Access® 19-Inch Fan Filter (P/N 1182970L1), illustrated in **Figure 1** with the accompanying 19-Inch Fan Filter Housing Assembly (P/N 1182971L1).

Revision History

This is the second issue of this practice. This issue includes a maintenance note concerning filter replacement.

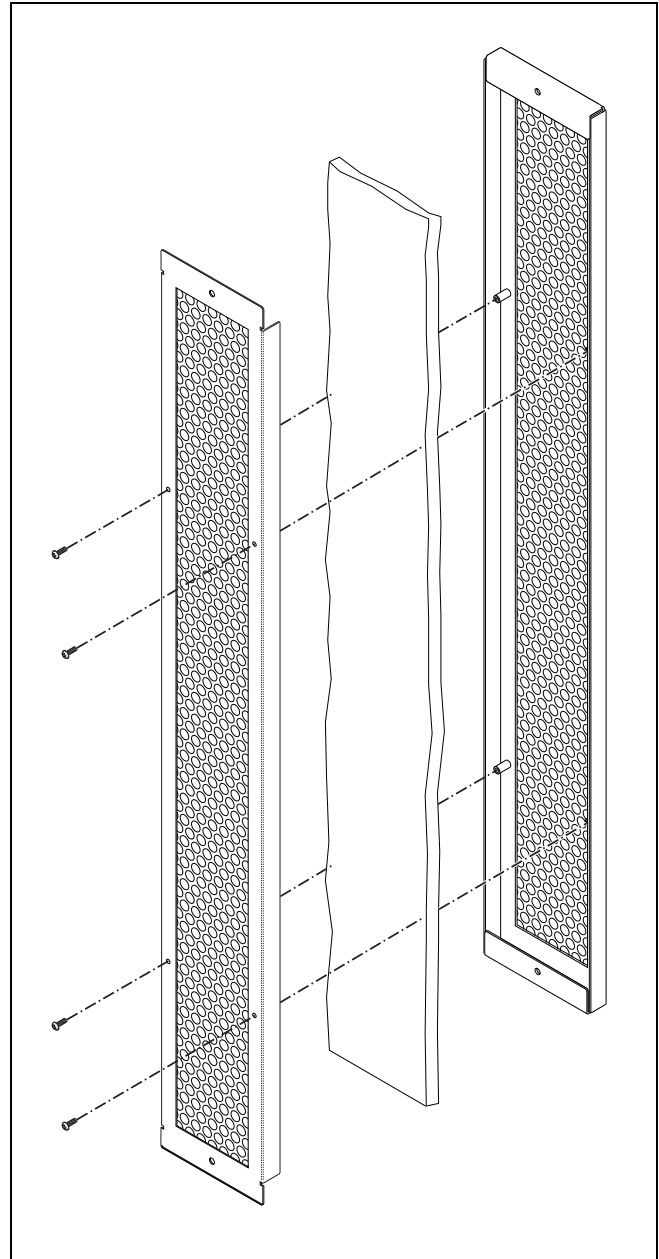
2. DESCRIPTION

The Fan Filter and Fan Filter Housing Assembly function together to filter air drawn from outside the shelf by the 19-Inch Fan Assembly (P/N 1182006L1). The Fan Assembly draws air through the Total Access shelf to cool the modules and vent heat through the rear of the Heat Baffle and Fiber Tray. The Fan Filter and Fan Filter Housing Assembly prevent dust and debris from collecting on the modules and PCB components, minimizing potential module performance degradation.

3. INSTALLATION

NOTE

This product is intended to be used with the Total Access 19-Inch Heat Baffle and Fiber tray only.



**Figure 1. Total Access 19-Inch Fan Filter
and Fan Filter Housing**

After unpacking the unit, inspect it for damage. If damage is found, file a claim with the carrier, then contact ADTRAN Customer Service. (Refer to the *Warranty and Customer Service* section of this practice.)

NOTE

The fans must be turned off prior to Fan Filter removal to prevent dust from entering the system while filters are being changed.

The Fan Filter is replaced by first removing the Fan Filter Housing Assembly from the Heat Baffle and Fiber Tray. Next, disassemble the housing by removing the four phillips-head screws on the backside of the housing and removing the rear housing panel. Discard the old filter and install the new filter into the front housing panel by pressing the filter down and around the four screw holes. Replace the rear panel and mount housing to the Heat Baffle and Fiber Tray.

The Fan Filter Housing Assembly mounts to the front of the Heat Baffle and Fiber Tray directly beneath the shelf. In a typical scenario, a Total Access shelf will be mounted with a Heat Baffle and Fiber Tray above and beneath. The Fan Assembly mounts to the rear of the Heat Baffle and Fiber Tray above while the Fan Filter Housing Assembly mounts to the front of the Heat Baffle and Fiber Tray beneath. See **Figure 2** for illustration of air flow through the Total Access system.

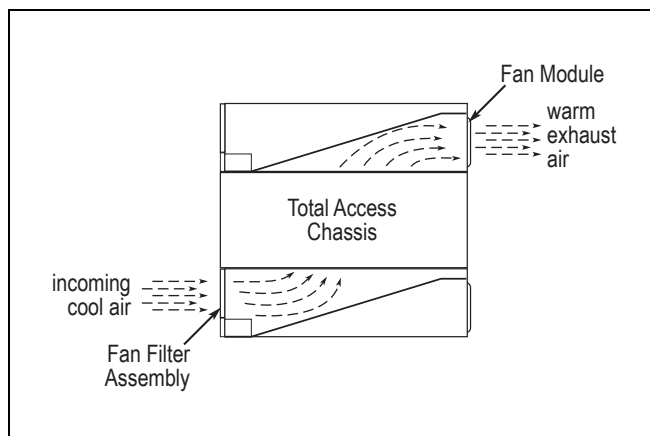


Figure 2. Total Access Air Flow

Using the two screws provided and a flat-tip screwdriver, position and attach the Fan Filter Housing Assembly onto the front of the Total Access Heat Baffle and Fiber Tray. The two mounting holes are located on the front of the Heat Baffle and Fiber Tray.

4. MAINTENANCE

The Fan Filter should be routinely replaced when it begins to impede airflow. The life span of the filter will vary depending upon the environment.

NOTE

When replacing the Fan Filter, it is not necessary to order a complete Fan Filter Housing Assembly. A single replacement filter can be ordered using part number 1182970L1.

ADTRAN cautions against performing major repairs in the field. Repair services are available if damaged units are returned to ADTRAN. (Refer to the *Warranty and Customer Service* section of this practice.)

5. WARRANTY AND CUSTOMER SERVICE

ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found at www.adtran.com/warranty.

U.S. and Canada customers can also receive a copy of the warranty via ADTRAN's toll-free faxback server at 877-457-5007.

- Request document 414 for the *U.S. and Canada Carrier Networks Equipment Warranty*.
- Request document 901 for the *U.S. and Canada Enterprise Networks Equipment Warranty*.

Refer to the following subsections for sales, support, CAPS requests, or further information.

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ADTRAN Repair/CAPS

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(256) 963-8722

Repair and Return Address

Contact Customer and Product Service (CAPS) prior to returning equipment to ADTRAN.

ADTRAN, Inc.
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