Keysight Y1259A Advanced Cooling Spacer Kit

For M9046A

KEYSIGHT

INSTALLATION NOTE

Keysight Y1259A Advanced Cooling Spacer Kit for M9046A Installation Note

This installation note contains procedures for installing the Y1259A Advanced Cooling Spacer Kit for the Keysight M9046A 18-slot PXIe Chassis in a Keysight rack.

NOTE These kits are designed for Keysight racks. A non-Keysight rack may require the use of support rails.

The parts included with the Y1259A are listed in the following tables (note that not all parts listed are available as field-replaceable parts).

Y1259A Advanced Cooling Spacer Kit for M9046A

Part Number	Description	Quantity	
M9044-80202	Advanced Cooling Spacer Kit, Basic	1	(See Figure 2)
M9044-80204	PSU Air Vent Channel Kit	1	(See Figure 5)
M9044-04105	Advanced Air Blocker, Spacer	1	
0515-1946	*M3 x 0.5 x 6mm Flat Head T10 Torx Screws w/Patch Lock (for Spacer Air Blocker)	2	
0515-0372	*M3 x 0.5 x 8mm Pan Head T10 Torx Screws W/Washer (for Cooling Spacer)	4	
0515-2330	*M3 x 0.5 x 6mm Pan Head T10 Torx Screws W/Washer-LG Steel Zn-Clear-Trivalent-Plated (5x on PSU Air Channel)	5	

* Recommended torque values for M3 screws installation: 8-9 in-lbs.

KEYSIGHT TECHNOLOGIES

General Rack Mounting Guidelines

In rack mounting the chassis, follow these guidelines:

- Always begin installing the chassis and heavy instruments at the bottom of the rack and work up. This maintains a lower center of gravity and reduces the possibility of the rack tipping.
- Anti-tipping feet, if available with the rack, should always be extended.
- The heaviest instrument or chassis should always be mounted at the bottom of the rack.
- For maximum cooling and optimum rack thermal efficiency, place the instrument or chassis with the greatest power consumption towards the top of the rack. This promotes efficient cooling since heat rises when placed nearer to the top of the rack, high power instruments will not unnecessarily heat other instruments. However, in doing this, do not violate the guideline that the heaviest instruments should be placed at the bottom of the rack.
- If instruments or modules in the chassis are consuming maximum power, 1U of rack space is required for ventilation below the Keysight PXIe chassis.

WARNING **To prevent injury during rack mounting, the chassis should be empty and two people should lift it into the rack.**

Procedure

Tools Required: #1 and #2 Phillips screwdriver, Torx T10 Screwdriver

1 Refer to Figure 1 on page 3. Remove four (4) M3 screws from the chassis top cover and Chassis Fan Tray of the M9046A PXIe chassis.

CAUTION Do not stand the chassis on its side; the side handles may cause the chassis to tip over.

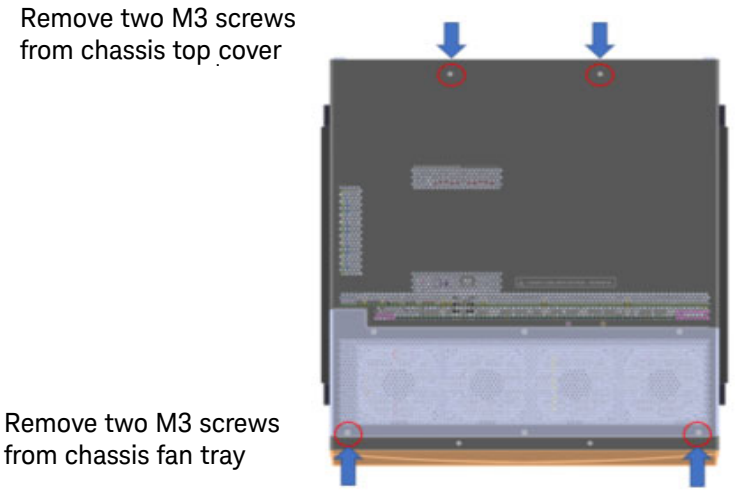


Figure 1 Removing the screws

2 Place Cooling Spacer (M9044-80202) on top of the Chassis. See Figure 2.

3 Align Cooling Spacer bottom to the four screw holes which has been removed in Figure 1 on page 3.

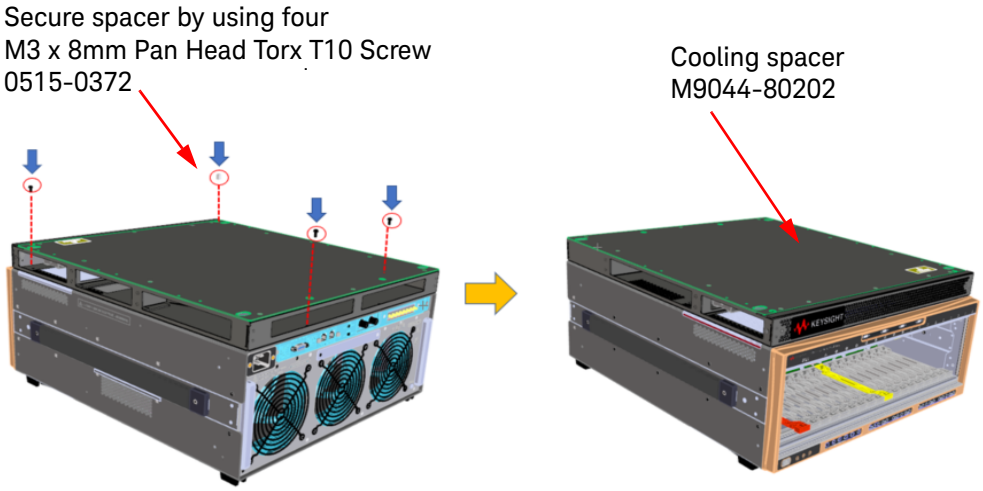


Figure 2 Secure spacer on the chassis by using Pan Head screws

4 Secure Cooling Spacer bottom with four (4) M3 x 8mm Pan Head Torx T10 screws (0515-0372). See Figure 2.

WARNING **Do not place instrument more than 60 kg on top of cooling spacer.**

5 Make sure the Cooling Spacer orientation is as per below illustration. See Figure 3.



Figure 3 Cooling Spacer orientation. Please see NOTE below.

6 Slot in the Spacer Air Blocker (M9044-04105) into Cooling Spacer and rotate 90° into upright orientation. See Figure 3.

7 Attach the Air Blocker against the air vents at the front of Cooling Spacer.

8 Secure the Air Blocker with two (2) M3 x 6mm Torx T10 screws (0515-1946). See Figure 4.

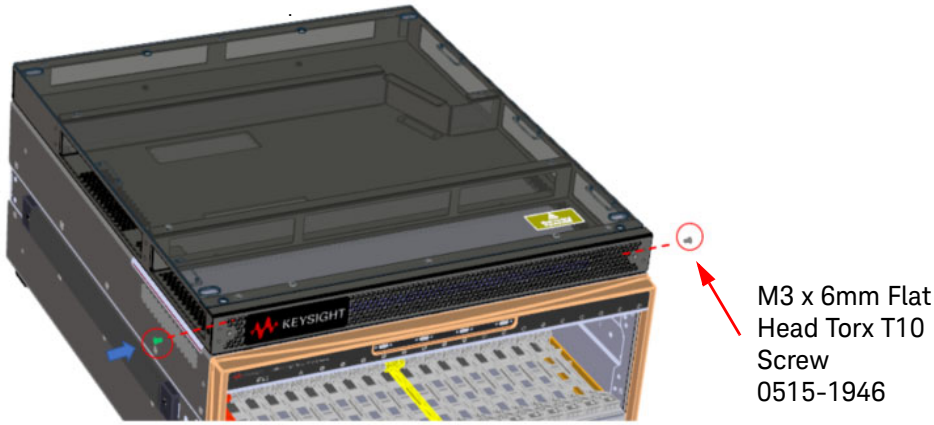


Figure 4 Secure spacer on the chassis with M3 x 6mm screws

NOTE Do not install Spacer Air Blocker if higher air flow performance is needed.

NOTE PSU Air Channel Installation require Y1257A/Y1258A Rack Mount Kit.

9 Remove PSU Air Channel top cover by unfastening five of the thumb screws. See Figure 5.

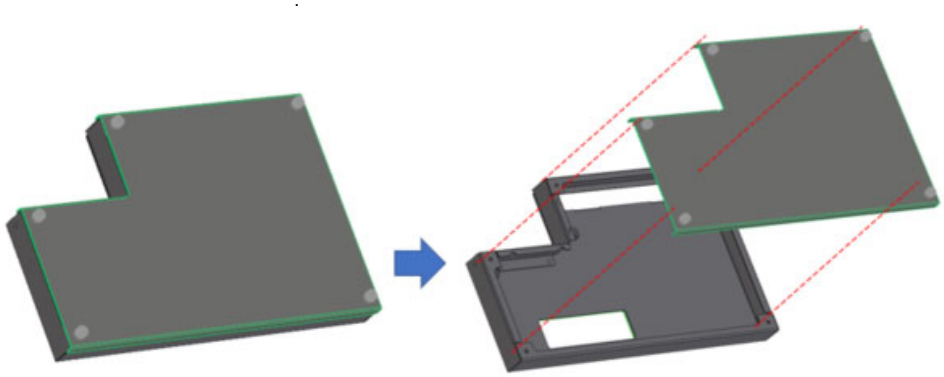


Figure 5 Removing PSU Air Channel top cover

10 Attach PSU Air Channel latches on the rack rail. See Figure 6.

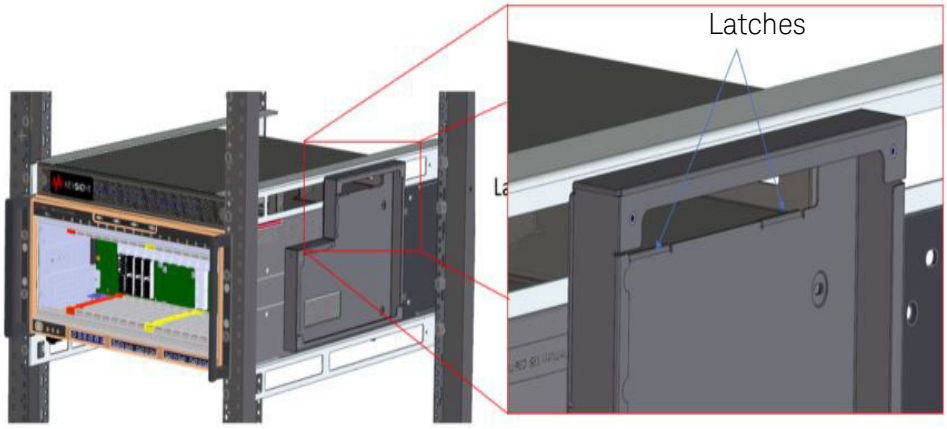
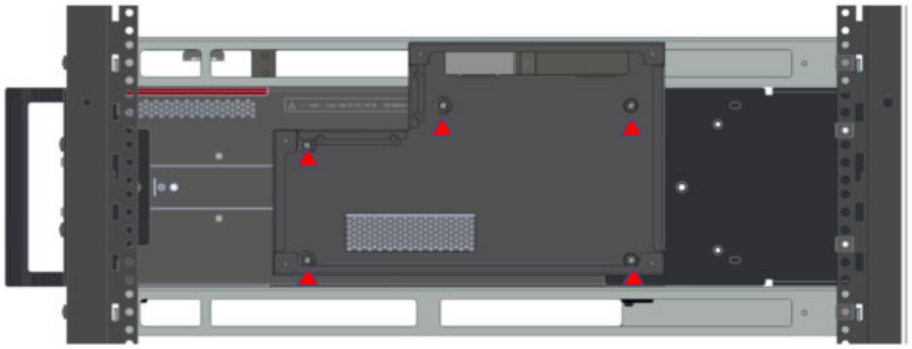


Figure 6 Placing PSU Air Channel latches on rack rail

11 Secure PSU Air Channel bottom cover to chassis with five (5) M3 x 6mm Pan Head Torx T10 screws (0515-2330). See Figure 7.



M3 x 6mm Pan Head Torx T10 Screw
0515-2330

Figure 7 Secure PSU Air Channel bottom cover

12 Close PSU Air Channel top cover and tighten the five (5) thumb screws. See Figure 8.

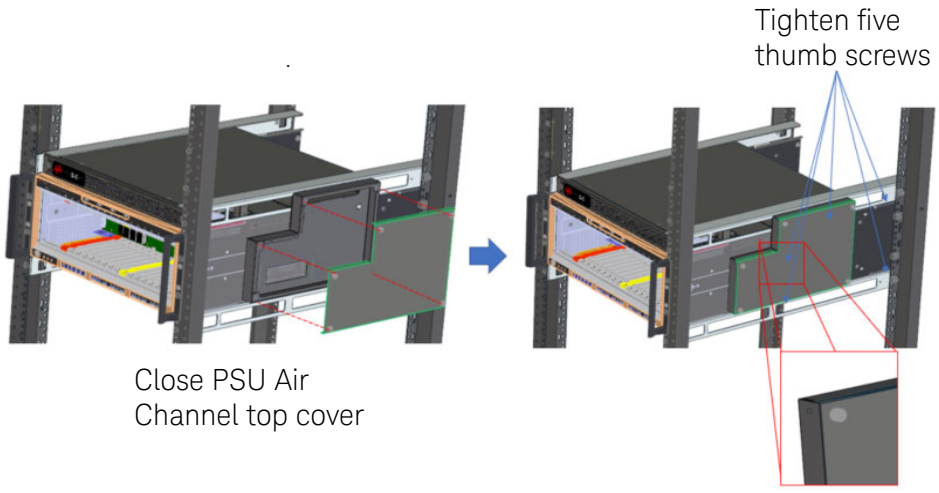


Figure 8 Tighten thumb screws

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