

ALPHA

S-PAL8045/8055 with MTGH-SPL80S Installation Guide

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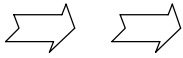
X001ZF21

ALPHA HeatSink

Installation Guide

Model S-PAL8045 / 8055 with MTGH-SPL80S

For Athlon, Duron, Athlon XP/MP (Socket A) Optional Hardware Mounting Kit. The 4 Holes Surrounding The Socket Are Required



Utilizes the four holes surrounding the processor socket. Hardware may interfere with surface mount components on some motherboards. All hardware included with MTGH-SPL80S(metric) differs from the hardware included with the MTGH80S(inch.) kit for the original PAL8045. Do not mix hardware components from these two hardware kits.

Please verify that all parts are contained in the MTGH-SPL80S per the following matrix.

PARTS	QTY
SCREW M3 x 35	4
SPRING OD 6 x 25	4
NYLON WASHER	8
NYLON SHOULDER WASHER	4
SUS STAND OFF	4
POLYCARBONATE NUT (CLEAR)	4
FLANGE NUT M3 (GOLD)	4

Remarks:

Those parts that are not listed in the matrix, but used in this installation guide, are included in S-PAL8045/8055.

Please make sure that the shoulder screws included in S-PAL8045/8055 should not be used to install S-PAL8045/8055 using MTGH-SPL80S kit.

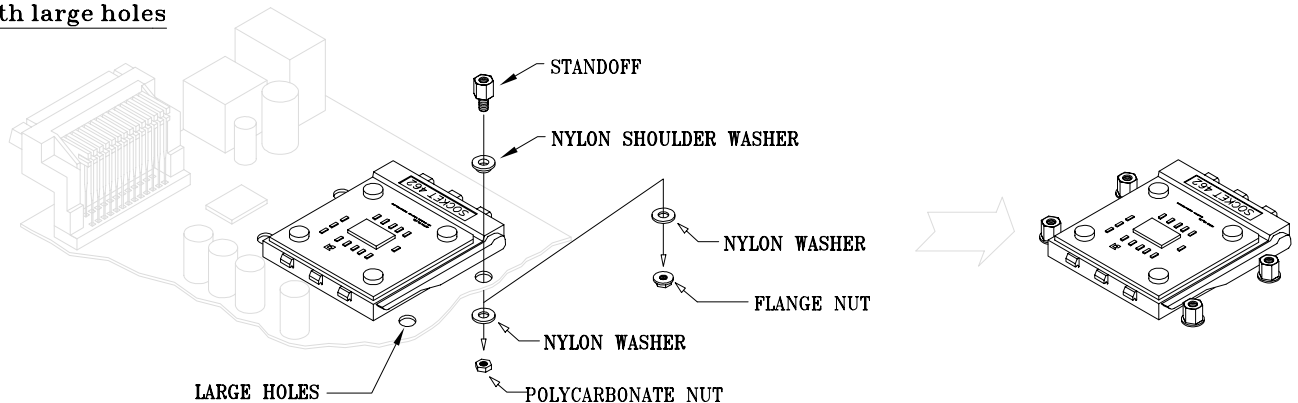
STEP 1 Uninstall the MB from the case to install the S-PAL8045/8055 by this option.

STEP 2 INSTALL STANDOFFS IN MB

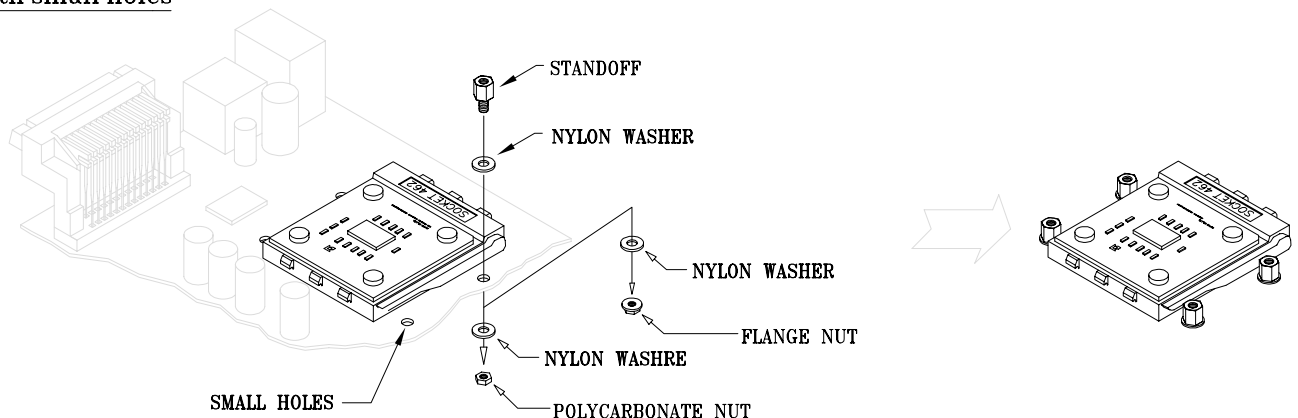
First, determine which type of standoff washer to use. If your MB has four large holes, diameter of 5.8 mm, use nylon shoulder washers. The bottom shank of the shoulder washer will fit into the four holes surrounding processor socket. If your MB uses four small holes, use the nylon flat washer. The bottom shank of the shoulder washer will not fit into the small holes. DO NOT use the nylon shoulder washers on boards with the small holes. This could prevent the heat sink from making contact with the processor.

Install the four nylon washers over the 4 holes in the MB. Insert the Standoffs through the nylon washer and MB. Secure the stand offs with flange-nut/nylon washer on backside of the MB. Keep the standoff and nylon washer centered over the MB holes. Some boards have components mounted close to the holes on the backside of the board. If this is the case, use polycarbonate nuts/nylon washers. If you use the metal flange-nut, make sure no components interfere with metal flange-nuts. If the wrong nut is used, your board could short out. If you are unsure, use the polycarbonate nuts. In either case, do not overtighten the nuts.

MB with large holes

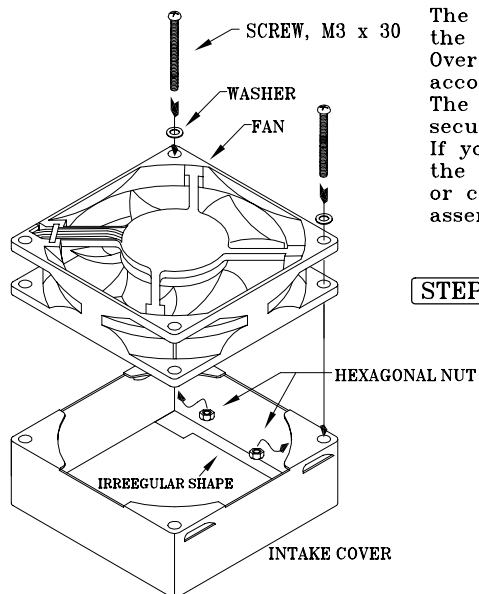


MB with small holes

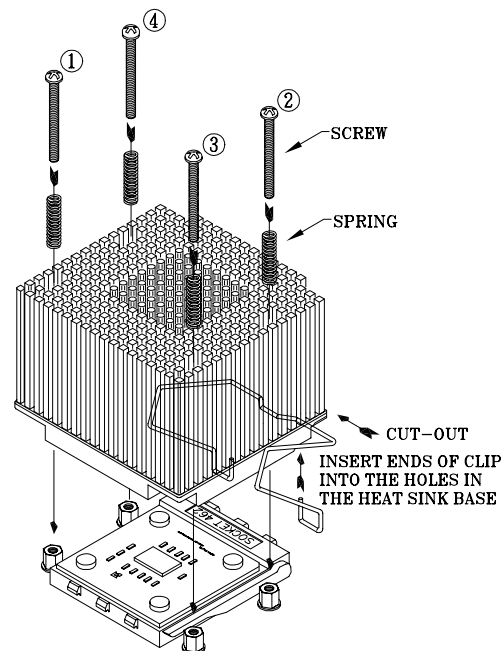


STEP 3 INSTALL HEAT SINK

Apply a thin layer of thermal grease on the processor. Preinstall both ends of the clip into the holes in the side of the heat sink with the cut-outs in the base. Refer to the right hand side figure. Set screws and springs into the #1 and #2 holes of the heat sink. Gently, place the heat sink on top of the processor. Ensure that the side of heat sink with the irregular shaped cut-outs goes over socket cam box. Line up the #1 and #2 spring screws with the standoffs. Look through the #3 and #4 holes to help align the heat sink with the standoffs. Begin to tighten #1 and #2 screws in an alternating pattern. Only tighten each screw a few turns each time and insert the other spring screws, #3 and #4. Continue to tighten all spring screws in a crisscross pattern.



Once the screws bottom, stop. The springs are now applying the specified load. Over-tightening the screws will accomplish nothing. The heat sink should now be securely attached to the MB. If you wish, you can reinstall the MB in the case at this time or complete the heat sink assembly.

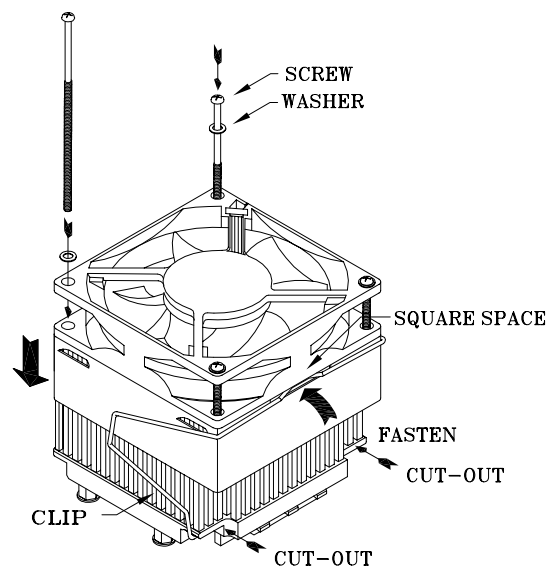
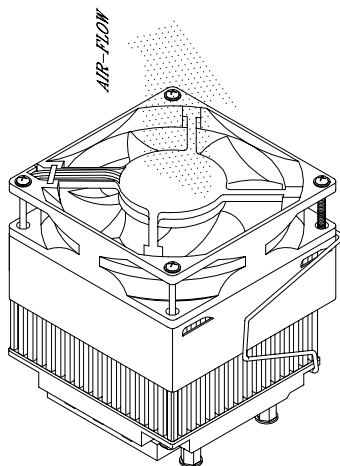


STEP 4 ASSEMBLY OF FAN AND INTAKE COVER

Refer to the left hand side figure. The fan must be attached to the intake cover before attachment to the heat sink. First, peel off the white protective film from the intake cover. The M3X30 screws must go through the fan and the irregular cut-out side of the intake cover and are secured with a hexagonal nut. Note that M3X30 screw, washers and hexagonal nuts are included the fan screw set in S-PAL8045/8055 package.

STEP 5 ASSEMBLY OF FAN, INTAKE COVER AND HEATSINK

Place the assembled intake cover over the heatsink per the right hand side figure. Use the M3X70 screws for S-PAL8045 to attach a 25mm fan. Use the M3X80 screws for S-PAL8055 to attach a 25mm fan. The screws must go through the fan and intake cover and will thread into the heat sink base. Do not overtighten the fan screws or damage could occur to the fan or intake cover. Finally, fasten the convex end of the clip into the square space in the intake cover.



STEP 6 FINAL ASSEMBLY AND INSPECTION

Install fan connector to the appropriate motherboard header. The S-PAL8045/8055 should now be fully assembled. Inspect to ensure that the heat sink is not interfering with any components on the MB. Reinstall the MB into the case if this was not already done. Inspect to ensure that the heat sink is sitting level relative to the processor and socket. Inspect final assembly to ensure that the heat sink assembly is not interfering with any part of the case.

information subject to change without notice.