

# Installation Procedure

1. Take out XE04-SP3 from its packing box. Before installing the heat sink, please check that heat sink must be properly oriented to the system cooling air flow direction (Figure 1 & Figure 2).
2. With the desired heat sink air flow direction, adjust the heat sink mounting screw positions so that they can be aligned with the associated nut standoffs for heat sink attachment on the socket stiffener frame (Figure 3-1~3-7).
3. Remove the protection cover of thermal interface material (TIM) or thermal grease. The required amount of TIM has been pre-applied on the bottom of the heat sink. Inspect pre-applied TIM for any damage.
4. Place the heat sink directly on top of the CPU (Figure 4) so that the four heat sink mounting screws are aligned with and seated on the four heat sink mounting studs or nut standoffs on the socket stiffener frame. The heat sink must be properly oriented to the system cooling air flow direction. Please note that the heat sink cooling fan should not be attached to the heat sink body when tightening the four heat sink mounting screws.
5. Use a screwdriver with Torx T20 bit and adjust the screwdriver torque setting to 16.1 kgf-cm (14.0 lbf-in). Before turning on the screwdriver, make sure that the screwdriver bit is fully engaged in the cavity of the heat sink mounting screw head. Keep heat sink mounting screw vertical during installations.
6. Tighten the two diagonal heat sink mounting screws, i.e. the #1 and #2 screws (Figure 5) 1 to 2 turns until they are just snug. Do not fully tighten! Then do the same with the remaining two diagonal heat sink mounting screws.
7. Follow the diagonal installation pattern on all four heat sink mounting screws to ensure that the bottom of the heat sink is properly seated on the CPU and to prevent the heat sink from tilting. Finish by fully tightening all the four heat sink mounting screws.
8. Install the heat sink cooling fan and holder assembly on the heat sink body and then tighten the single locking screw on top of the fan holder (Figure 6 & Figure 7).
9. Connect XE04-SP3 cooling fan screw connector to the fan header labeled for CPU on the motherboard.

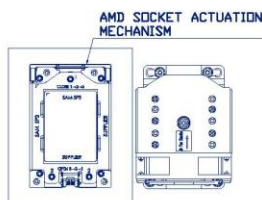


Figure 1

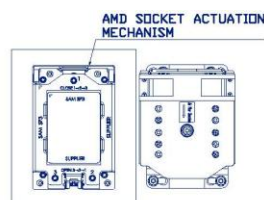


Figure 2

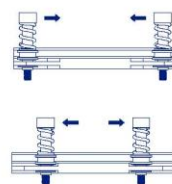


Figure 3-1

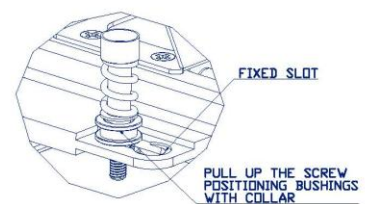


Figure 3-2

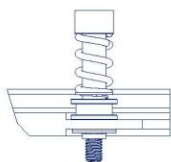


Figure 3-3

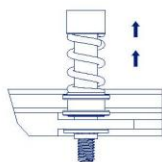


Figure 3-4

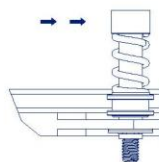


Figure 3-5

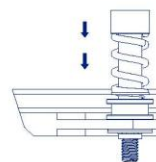


Figure 3-6

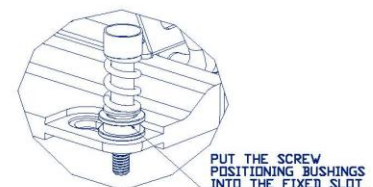


Figure 3-7

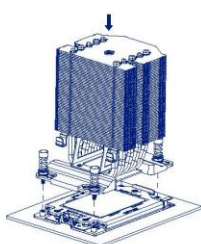


Figure 4

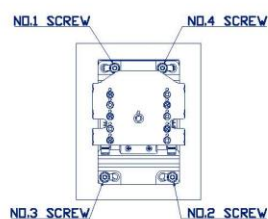


Figure 5

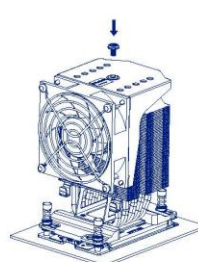


Figure 6

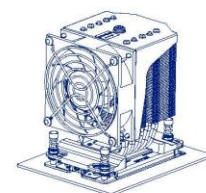


Figure 7