



## Installation Instructions

As a barebone, the device is delivered without memory and hard drive. Please note the following when installing or removing certain components. The device features two SO-DIMM slots for a maximum capacity of 2x 1GB DDR2-667/800 memory and one 2.5 inch drive bay for one S-ATA hard disk.

### Please note and proceed as follows:

**A** Only authorized and skilled personnel should proceed with installation procedure.

**B** Improper handling may damage the device and damage due to improper handling is not covered under warranty.

**C** To prevent static damage of electronic components, discharge static electricity from your body before you touch the electronic components. Use an anti-static wrist strap and/or anti-static mat, if possible.

**1** Please make sure the device is disconnected from the power and put it on a soft surface with the display facing downward and fold the stand vertically upward. Next,

carefully remove the back plate with the Shuttle logo that is held into place by six hooks. Carefully press the side of the back plate with your fingertips to loosen it. Alternatively, the back plate can be loosened using a plastic card.

**2** Loosen the four cross-head screws (or Phillips screws) to remove the stand.

**3** Remove the four cross-head screws that hold the case cover into place.

**4** The case cover is held into place by several hooks. At the bottom of the case is a notch that allows you to easily lift up the back panel by using a screwdriver or plastic card. Please be careful not to use too much pressure as it may cause damage.

**5** As the next step, remove the large electromagnetic shielding (EMI cover). This metal sheet is fixed by three cross-head screws.

**6** Once opened, you will see a metal plate which is removable by four screws. Only remove this part to install or exchange memory modules. To remove such memory modules, carefully bend back the clamps on both sides of the module. Please align the memory with the notch

when installing the module to make sure it faces the correct direction.

**7** Loosen the four screws of the drive cage **A** including the affixed fan **B** with its small board **C** while leaving the cables connected.

**8** Please insert a 2.5 inch SATA hard disk into the drive cage with the connectors facing the metal sheet. Please then affix the hard disk with four screws and carefully push it in afterwards to connect it.

**9** Remove the backing on the adhesive tape that is attached to the fan. Then attach the drive cage to the fan and board with four screws.

**10** Now that everything is in place, please re-install the metal plate, back panel, and back plate.

### Overview of parts:

**A** X50-chassis, **B** case cover, **C** stand, **D** cap with Shuttle logo, **E** large shielding, **F** little shielding, **G** drive cage, **H** hard disk, **I** memory modules, **J** cooling fan, **K** small board