

## AMD FM2+ CPUs are ONLY Compatible with Socket FM2+ Motherboards Instruction Manual

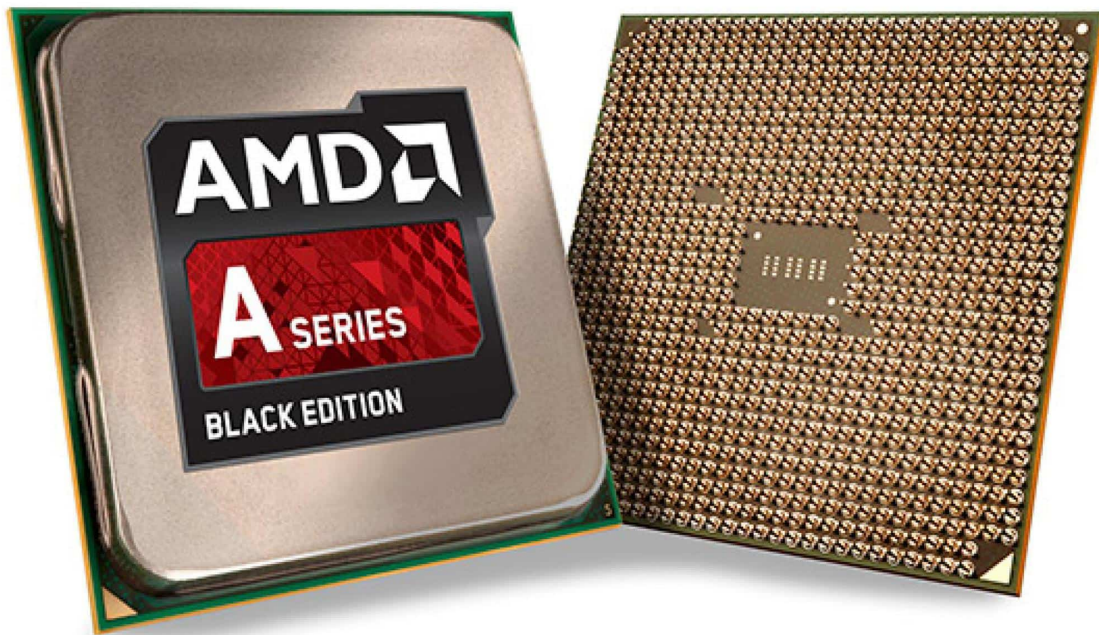
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**AMD FM2+ CPUs are ONLY Compatible with Socket FM2+ Motherboards**



## INTRUDUCTION

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### Trademarks

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**Congratulations on your purchase of an AMD Processor in a Box (PIB). Please follow these instructions carefully to help ensure the most positive experience with your system.**

### WARNING

1. As with all computer equipment, the PIB components can be damaged by Electro Static Discharge (ESD). Take

proper ESD precautions when handling PIB components.

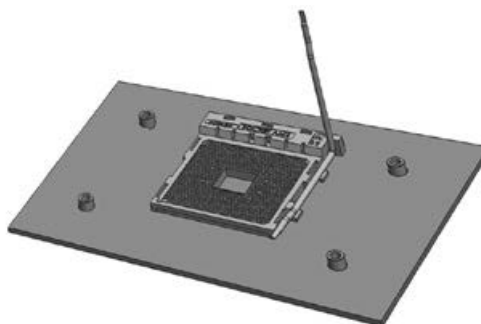
2. To ensure full compliance with the AMD Limited Warranty for PIB products, a thermal solution must be used. For those PIB products that include a thermal solution, the thermal solution included must be used. If a thermal solution must be purchased, it must meet or exceed the thermal solution requirements provided at [www.amd.com/support](http://www.amd.com/support).
3. Do not apply voltage until the thermal solution is fully installed. If voltage is applied before the thermal solution is fully installed, the processor may overheat and failure may result. Read through and understand the installation instructions completely before you begin.
4. The PIB is intended to be operated only within the associated AMD published specifications and factory settings (AMD Specifications) and may only be used with socket infrastructure set forth in such specification. Operation of the PIB outside of the AMD Specifications, including but not limited to use with a socket infrastructure other than the socket infrastructure set forth in the specification, may damage the processor and/or lead to other problems, including but not limited to: damage to your system components including your motherboard and components thereon (e.g. memory); system instabilities (e.g. data loss and corrupted images); reduction in system performance; shortened processor, system component and/or system life; and in extreme cases, total system failure. DAMAGE CAUSED BY OR ISSUES ARISING FROM USE OF THE AMD PROCESSOR WITH A SOCKET INFRASTRUCTURE OTHER THAN THAT SET FORTH IN THE AMD SPECIFICATIONS OR USE OR INSTALLATION OF THE AMD PROCESSOR OUTSIDE OF THE AMD SPECIFICATIONS OR INSTRUCTIONS SET FORTH HEREIN IS NOT COVERED UNDER ANY AMD PRODUCT WARRANTY AND AMD HAS NO OBLIGATION TO PROVIDE SUPPORT OR SERVICE FOR SUCH AMD PRODUCT. YOU MAY ALSO NOT RECEIVE SUPPORT, SERVICE OR WARRANTY FROM YOUR BOARD OR SYSTEM MANUFACTURER FOR THOSE AMD PRODUCTS.

## VERIFY THAT YOUR MOTHERBOARD SUPPORTS YOUR PROCESSOR

The AMD Socket FM2+, AMD3+, AM4, SocketTR4, SP3, sTRX4, and sWRX8 platforms are designed to be fully featured, scalable solutions with support for multiple processors. To see if your motherboard supports your processor, please refer to the CPU Support List document available on your motherboard manufacturer's website. Since the manufacture of your motherboard, there may have been several BIOS updates made available through our motherboard partners. These updates not only provide improved system performance but may be required to support newer processors as they become available. If your processor is supported by your motherboard but requires an updated BIOS, you may experience an issue where the system does not boot up during initial setup. If this happens, please get assistance from the AMD support website at [www.amd.com/support](http://www.amd.com/support)

## Installation Instructions

### 1. FM2+/AM3+ and AM4 CPUs

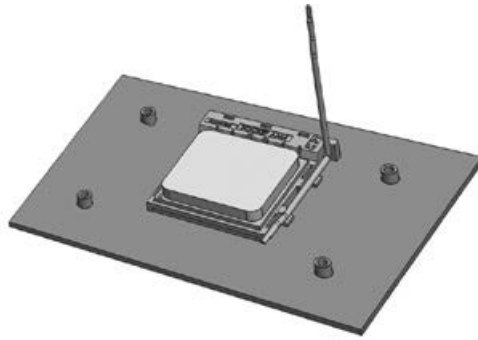


### 2. Align Pin 01 Indicators

Prior to installation, ensure Pin 01 indicators (the small arrows) on the socket and processor are correctly

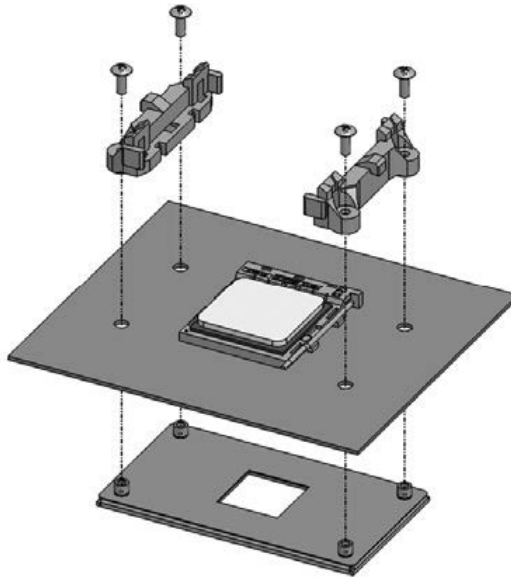
aligned.

3.

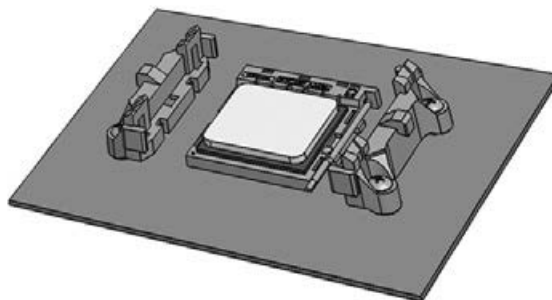


**FM2+/AM3+ CPUs:**

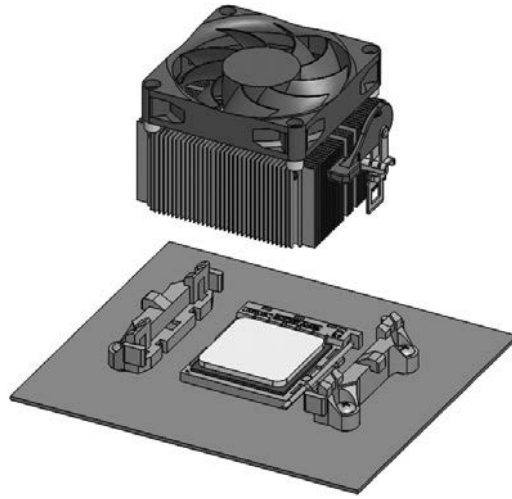
Phillips screwdriver required for installation.



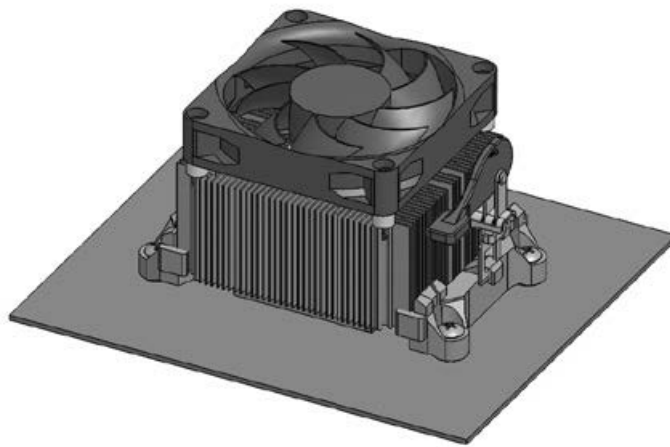
4. Gently tighten screws to secure retention hooks.



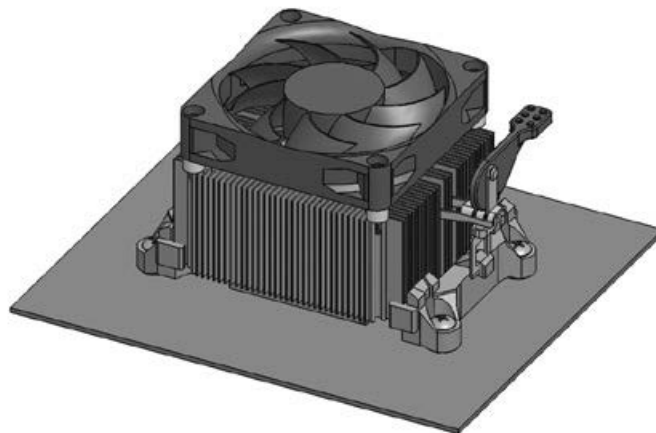
5. Carefully place heatsink on processor.



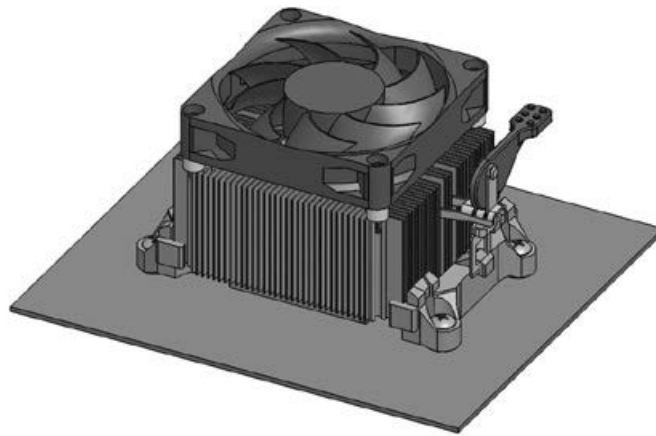
6. Place clips over retention frame hooks.



7. Flip lever over to secure heatsink.



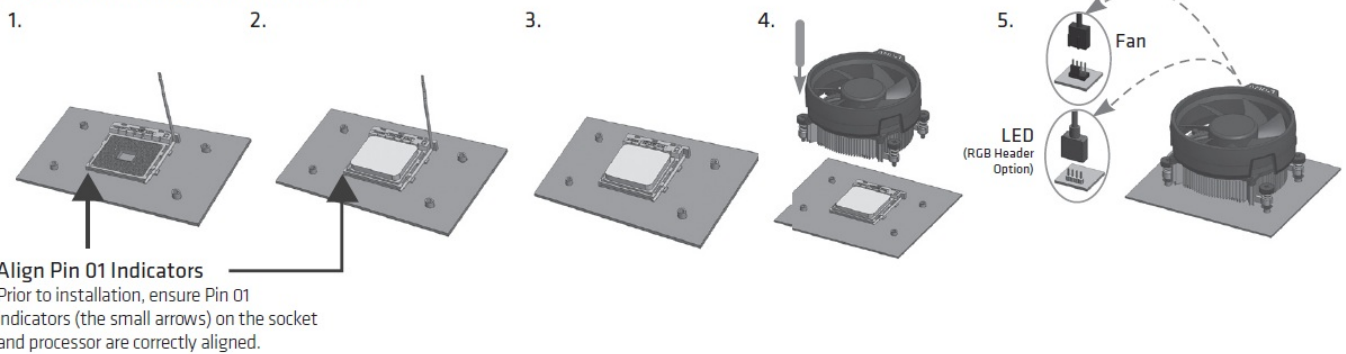
8. Plug in fan header.



### AM4 CPUs (option 1):

Phillips screwdriver required for installation.

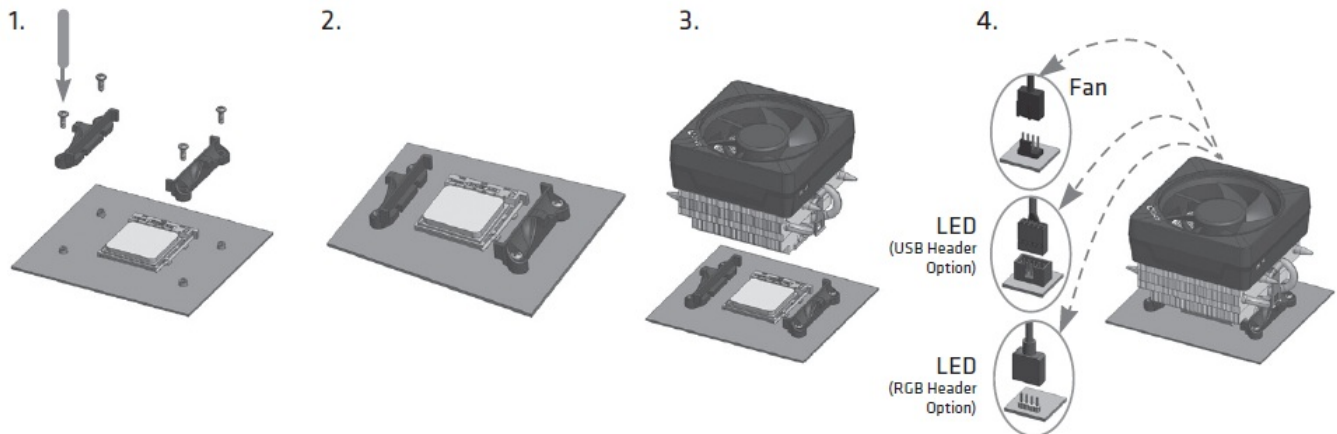
Phillips screwdriver required for installation.



### AM4 CPUs (option 2):

Phillips screwdriver required for installation.

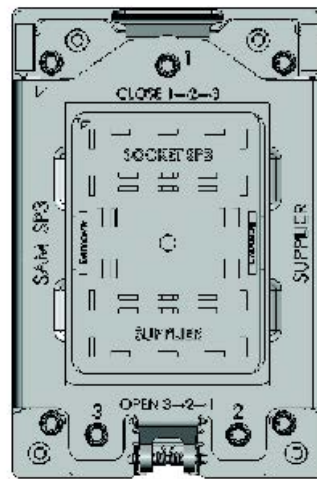
Phillips screwdriver required for installation.



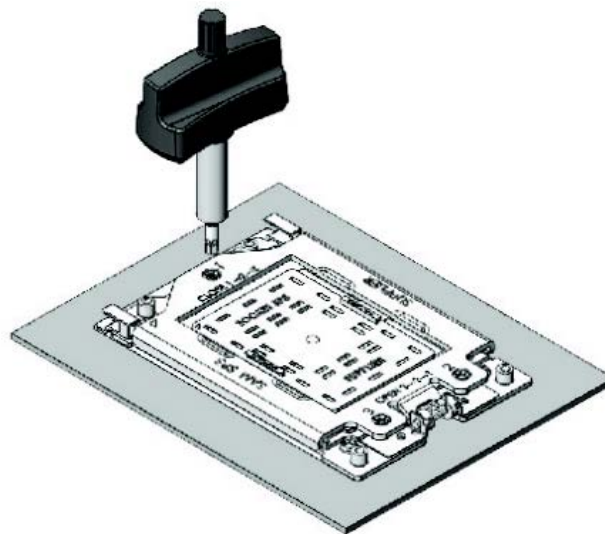
### SocketTR4/SP3/sTRX4/sWRX8

T20 torque driver required for installation.

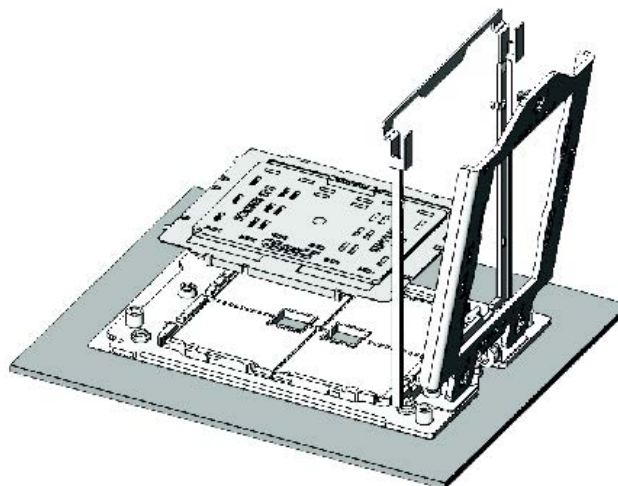




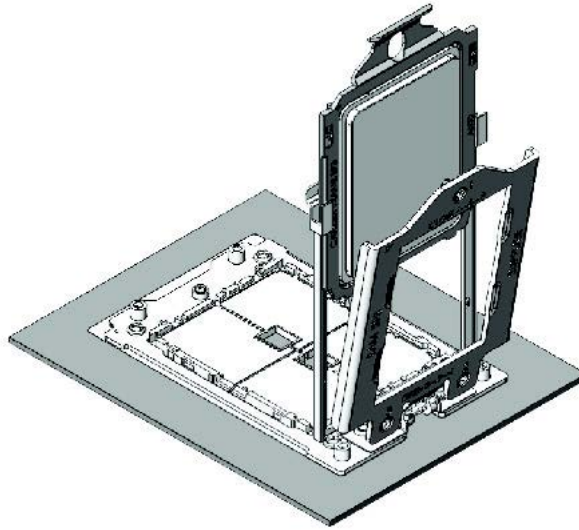
1. Loosen in 3, 2, 1 order.



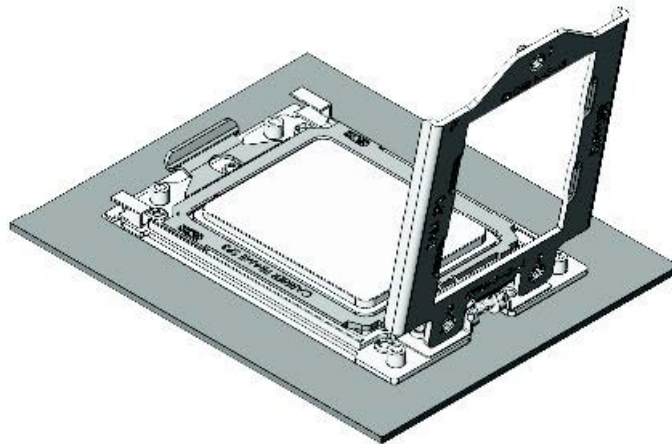
2. Lift up socket lid and carrier frame holder, then remove socket protector. Do not touch pins in socket.



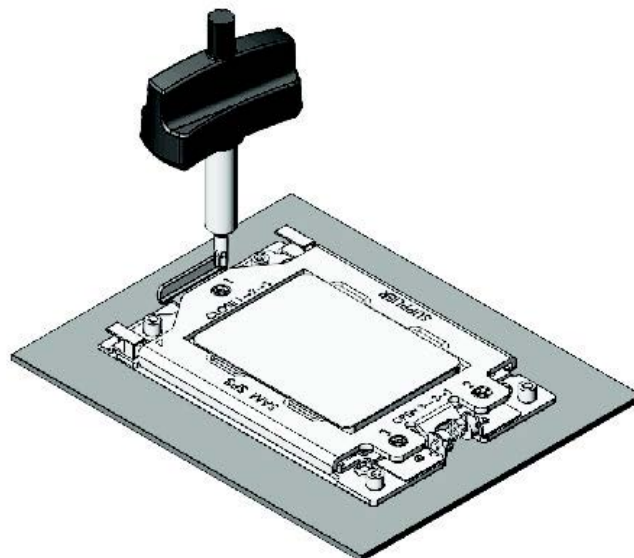
3. Hold by carrier frame and slide down until processor clicks into place.



4. Carefully lower CPU in frame holder onto socket until clicked down. Lower socket lid.



5. Tighten in 1, 2, 3 order until wrench clicks.



#### **READ THIS FIRST**

**IMPORTANT :Prior to installing:** To help ensure a positive experience, continued warranty coverage during the warranty term, and reliable operation, please consider the following points before installing the Processor:

1. Record the serial number in the front page of this poster. You can find the serial number on the top of the retail box. The serial number is required for any warranty claims.



2. Use only with a thermal solution sold with or recommended for this AMD Processor (see AMD's website for a list of third party approved cooling solutions for the specific AMD Processor you are using); or in accordance with the applicable thermal design documentation (see AMD's website for technical documents: see [www.amd.com/support](http://www.amd.com/support) for details). Use of any other thermal solution will void the warranty.
3. Never use the processor without an appropriate thermal solution installed.
4. Never handle the processor by the pins.
5. Read and follow installation instructions carefully. Incorrect installation may result in overheating or other damage to the processor that will void the limited warranty.
6. High-quality thermal interface material is required for all AMD Processors. The thermal solution included with some retail AMD Processors has pre-applied thermal interface material.
  1. If you remove the thermal solution after initial installation, you must first clean the thermal solution surface and apply new thermal interface material before reinstalling the thermal solution on your processor.

### **Three (3) Year Limited Warranty for Processor in a Box**

Except as otherwise provided herein, and only for the three (3) year period (the "Warranty Term") beginning after the date the AMD processor contained in this box and that has a valid, AMD verified serial number (the "AMD Processor") was first purchased by the original customer, AMD warrants that the AMD Processor, when properly installed and used with the thermal solution provided herewith (or if a thermal solution is not provided, then with a third party cooling solution that conforms to the applicable AMD thermal design documentation or with AMD approved cooling solutions — see [www.amd.com/support](http://www.amd.com/support) for details), under normal use conditions, will be free from defects in material and workmanship and will substantially conform to the AMD publicly available specifications. If the AMD Processor fails to meet the above warranties during the Warranty Term, AMD, at its sole option, will: (1) Repair the AMD Processor by means of hardware and/or software; (2) Replace the AMD Processor with another AMD Processor of equal or greater performance, OR (3) if AMD is unable to repair or replace the AMD Processor, refund the then-current value of the AMD Processor. This warranty does not extend beyond the first purchaser of the AMD Processor.

### **Warranty Limitations and Exclusions**

THIS LIMITED WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, THE IMPLIED WARRANTY AGAINST INFRINGEMENT, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON AMD'S PART, AND AMD NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR AMD ANY OTHER LIABILITIES. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES SO THIS LIMITATION MAY NOT APPLY TO YOU. ALL WARRANTIES HEREUNDER ARE LIMITED IN DURATION TO THE WARRANTY TERM AND ALL CLAIMS FOR WARRANTY SUPPORT MUST BE PROPERLY SUBMITTED TO AMD ON OR BEFORE THE END OF THE WARRANTY TERM. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE DURATION OF A WARRANTY, SO THIS LIMITATION MAY NOT APPLY TO YOU.

This warranty shall not apply to any AMD Processors where AMD determines that the defect or non-conformance was caused by improper use or operation outside of the data sheet specifications for the AMD Processor, abuse, negligence, improper installation or testing, accident, loss or damage in transit, overclocking the Product (even when enabled by AMD), errors in the design of the product into which the Product was incorporated, external factors beyond the control of AMD or unauthorized repair or alteration by a person other than AMD. AMD does not warrant that your AMD Processor will be free from design defects or errors known as "errata". This Limited Warranty shall be null and void if (i) the AMD Processor is used with any heatsink/fan other than the one provided herewith, or (ii) if used with a cooling solution that does not conform to AMD approved specifications for third party cooling solutions for this AMD Processor (see [www.amd.com/support](http://www.amd.com/support) for details). This Limited Warranty does not cover any costs relating to removal or replacement of any AMD Processor or any other cost associated with replacement for the AMD Processor.

### **Limitations of Liability**

AMD's RESPONSIBILITY UNDER THIS, OR ANY OTHER WARRANTY, IMPLIED OR EXPRESS, IS LIMITED TO

REPAIR, REPLACEMENT OR REFUND, AS SET FORTH ABOVE. NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY, THESE REMEDIES ARE THE SOLE AND EXCLUSIVE REMEDIES FOR ANY BREACH OF WARRANTY. AMD IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY INCLUDING, BUT NOT LIMITED TO, LOST REVENUES, LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, COST OF LABOR, AND ANY COSTS OF RECOVERING, REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH A SYSTEM CONTAINING YOUR AMD PROCESSOR. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

## How to Obtain Warranty Service

To obtain warranty service for the AMD Processor, first contact the company from which you bought your boxed Processor. After their warranty expires or if you are unable to otherwise obtain warranty service you should contact AMD online at: in the U.S., Canada, Europe, the Middle East, Africa, and the Russian Federation, <http://support.amd.com/consumer> for Consumers, and <http://support.amd.com/partner> for Resellers; in Asia, [support@amd.com](mailto:support@amd.com). Please be prepared to provide 1) your name, address, and telephone numbers; (2) proof of purchase; (3) a description of the type of boxed processor; (4) the serial number found on your boxed processor and (5) a detailed description of the problem. The Technical Service Center Representative may need additional information from you depending on the nature of the problem.

Upon receipt of a Return Material Authorization (RMA) number from the Technical Service Center Representative, you will be required to send in your processor and heatsink/fan that were packaged together in the retail container. The packaging materials themselves will not be required to process your RMA. Any replacement AMD processor is warranted under this written warranty and is subject to the same limitations and exclusions for the remainder of the original Warranty Term or one (1) year, whichever is longer. Online RMA service is available at <http://support.amd.com/consumer> for Consumers and <http://support.amd.com/partner> for Resellers. Other warranty inquiries may be sent by mail to: AMD Warranty Questions, P.O. Box 3453 Sunnyvale, CA 94088-3453. (Do not send the product to this address.)

## Documents / Resources

	<a href="#">AMD FM2+ CPUs are ONLY Compatible with Socket FM2+ Motherboards</a> [pdf] Instruction Manual FM2 CPUs are ONLY Compatible with Socket FM2 Motherboards
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## References

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- [support.amd](#)
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