ACECOMPUTERS

TECHNICAL

REFERENCE GUIDE

ACE RAPTOR SERIES

MODEL: MR-17AHM8

TABLE OF CONTENTS

8/5/2025

DISCLOSURES

The information in this User's Manual has been carefully reviewed and is believed to be accurate. The vendor assumes no responsibility for any inaccuracies that may be contained in this document and makes no commitment to update or to keep current the information in this manual, or to notify any person or organization of the updates. Please Note: For the most up-to-date version of this manual, please see our website at www.acecomputers.com.

Ace Computers reserves the right to make changes to the product described in this manual at any time and without notice. This product, including software and documentation, is the property of Ace Computers and/ or its licensors, and is supplied only under a license. Any use or reproduction of this product is not allowed, except as expressly permitted by the terms of said license.

IN NO EVENT WILL Ace Computers BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, SPECULATIVE OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OR INABILITY TO USE THIS PRODUCT OR DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN PARTICULAR, SUPER MICRO COMPUTER, INC. SHALL NOT HAVE LIABILITY FOR ANY HARDWARE, SOFTWARE, OR DATA STORED OR USED WITH THE PRODUCT, INCLUDING THE COSTS OF REPAIRING, REPLACING, INTEGRATING, INSTALLING OR RECOVERING SUCH HARDWARE, SOFTWARE, OR DATA.

Any disputes arising between manufacturer and customer shall be governed by the laws of Cook County in the State of Illinois, USA. The State of Illinois, County of Cook shall be the exclusive venue for the resolution of any such disputes. Ace Computer's total liability for all claims will not exceed the price paid for the hardware product.

The products sold by Ace Computers are not intended for and will not be used in life support systems, medical equipment, nuclear facilities or systems, aircraft, aircraft devices, aircraft/emergency communication devices or other critical systems whose failure to perform be reasonably expected to result in significant injury or loss of life or catastrophic property damage. Accordingly, Ace Computers disclaims any and all liability, and should buyer use or sell such products for use in such ultra-hazardous applications, it does so entirely at its own risk. Furthermore, buyer agrees to fully indemnify, defend and hold Ace Computers harmless for and against any and all claims, demands, actions, litigation, and proceedings of any kind arising out of or related to such ultra-hazardous use or sale.

Unless you request and receive written permission from Ace Computers, you may not copy any part of this document. Information in this document is subject to change without notice. Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.

Printed in the United States of America.

8/5/2025

INTRODUCTION

Audience

This manual is mainly written for professional system integrators, PC technicians, and end of life recycling facilities, with the exception of the Energy Management Section, which is written to provide additional guidance on standard energy settings and configurable energy settings for the end user.

Resources

If you have any questions regarding this manual or computer system, please contact our support team through Ace Computers Support page at support.acecomputers.com

This manual may be periodically updated without notice. Please check the Ace Computers website for possible updates to the manual revision level.

ENEGY STAR AND POWER MANAGEMENT

What is Energy Star?

Created by the Environmental Protection Agency (EPA) and the United States Department of Energy (DOE), the Energy Star program is a strict set of specifications that residential appliances and construction elements (washers, dryers, refrigerators, freezers, dishwashers, televisions, tablets, computers, monitors, water heaters, HVAC units, dehumidifiers, air cleaners and purifiers, lighting, insulation and more) must meet through evaluation and testing to achieve certification.

The Energy Star rating assures consumers that the product has been EPA and DOE certified to function as well or better than its peers, while saving money, energy and the environment due to its greater energy efficiency.

Benefits of Energy Star

- Increased Efficiency
- Reduced Energy Use
- Reduced Utility Bills
- Reduced Power Plant Emissions and Carbon Footprint
- Wide Selection, Rebates, and Convenience

MR-17AHM8 Power Management Settings "As Shipped"

The default Power Management settings have been selected for compliance with Energy Star and are recommended by the Energy Star program for optimal energy savings.

Power Management Option	Setting
System Sleep Mode	After 30 min. of user inactivity
Display Sleep Mode	After 10 min. of user inactivity
Primary Hard Drive – "Hard Disk Turn Off"	20 min.

How to wake your computers or monitor from Sleep or Hibernate Mode?

To wake up your computer or monitor from sleep or hibernate, move the mouse or press any key on the keyboard. If this does not work, press the power button to wake up the computer.

Wake Management

- Capable of both remote (via network) and scheduled (via real time clock) wake events from Sleep Mode.
- Provide clients with the ability to centrally manage (via vendor tools) any wake management settings that are configured through hardware settings if the manufacturer has control over such features.

WoL (Wake on LAN)

WoL Capabilities/Default Settings	Yes	No
Has the ability to Enable and Disable WoL for Sleep Mode	●	
WoL Enables from Sleep by default:		☑
WoL Enabled from Off by default:		☑

WoL from Sleep:

WoL from Sleep - Default Settings	Yes	No
Shipped Enabled Under All Conditions		●
Shipped Enabled When Operating on AC power only		●
Shipped Disabled	●	
Shipped Disabled with both client OS and Network Controls to Enable Feature		●

ILLUSTRATED SYSTEM DISASSEMBLY/REASSEMBLY INSTRUCTIONS

Introduction

This section of the technical reference guide is intended to provide the following information:

- Information on parts requiring selective treatment per WEEE Directive
- Disassembly process for removal of external enclosure without tools
- Disassembly instructions, including required tools, as applicable
- Diagram and/or pictorial representation of all parts in the system

This section of the user manual is intended to provide guidance to end of life recyclers on the presence of materials and components that require selective treatment, per Article 15 of the EU WEEE Directive 2012/19/EU.

The provided information should also help direct recyclers to proper methods for removing parts and general product disassembly instructions. This Chapter also outlines specific substances, mixtures, and components that must be removed from any separately collected electronic waste component and shall be disposed or recovered in compliance with Directive 2008/98/EC.

Please note: All the illustrations in the below disassembly instructions are for demonstration only. The system and components shown in this section are a representative sample.

Replacement Parts

Refer to section "UPGRADES, SERVICE, AND REPAIR" for information on how to obtain replacement components for your MR-17AHM8.

 NOTE: While the components of this computer can be replaced by the end user, Ace Computers does not recommend that an end user without previous computer repair experience perform the upgrades and/or replacement of said components. Computer components are delicate and can easily be damaged. If you are uncertain about replacement or upgrade of your computers, the Ace Computers technical support team does offer "depot" services for on-site system repair and upgrade. Please contact the Ace Computers Technical Support team for additional information and pricing.

 CAUTION: Always power off the system and unplug the power cord(s) before opening the side panel to access the internal components.

 ATTENTION: Electrostatic discharge potential.

Your computer's internal components are highly susceptible to risk of damage from electrostatic discharge (static electricity, which occurs naturally on your body due to friction). To avoid damaging your equipment, always earth yourself to your computer system before opening the computer's chassis or handling any internal component(s).

Representative Desktop Component Layout

Please note the illustration below is a representative sample of the MR-17AHM8, your PC may include additional components or variations of this family configuration.
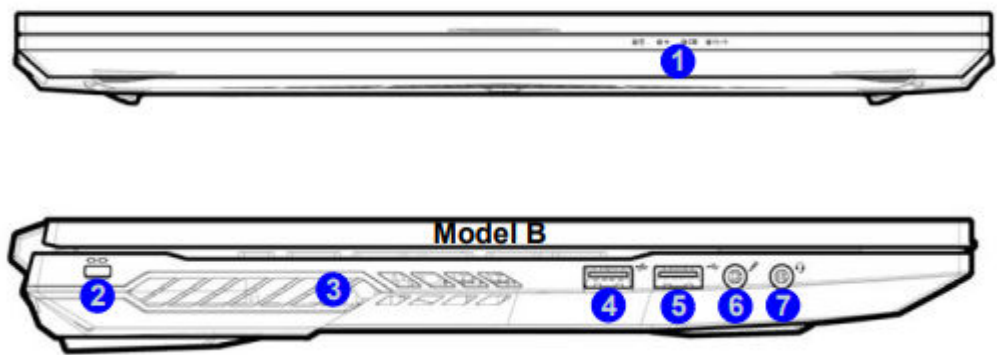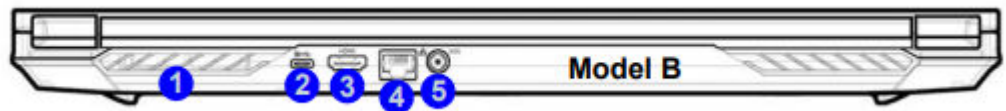

Front & Left Views

Model B

Figure 1 - 7
Front & Left Views

1. LED Indicators
2. Security Lock Slot
3. Vent/Fan Intake/ Outlet
4. USB 3.2 Gen 1 Type A Port
5. USB 2.0 Port
6. Microphone Jack
7. 2-In-Audio Jack (Headphone/ Microphone)

System Map: Rear View of MR-17AHM8 Model
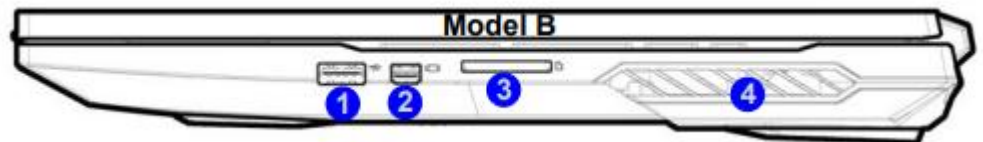
Figure 1 - 8
Right & Rear Views

1. Vent/Fan Intake
2. DisplayPort 1.4 over USB 3.2 Gen 2 (Type C)
3. HDMI-Out Port
4. RJ-45 LAN Jack
5. DC-In Jack

System Map: Right View of MR-17AHM8 Model
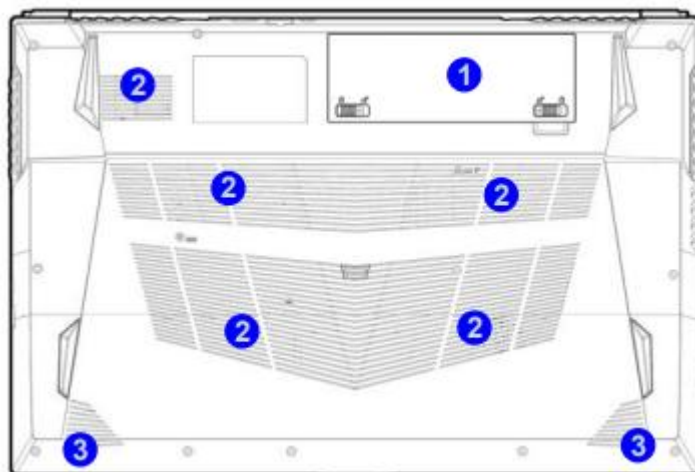
Figure 1 - 9
Right View

1. USB 3.2 Gen 2 Type A Port
2. Mini DisplayPort 1.2
3. Multi-in-1 Card Reader
4. Vent/Fan Intake/ Outlet

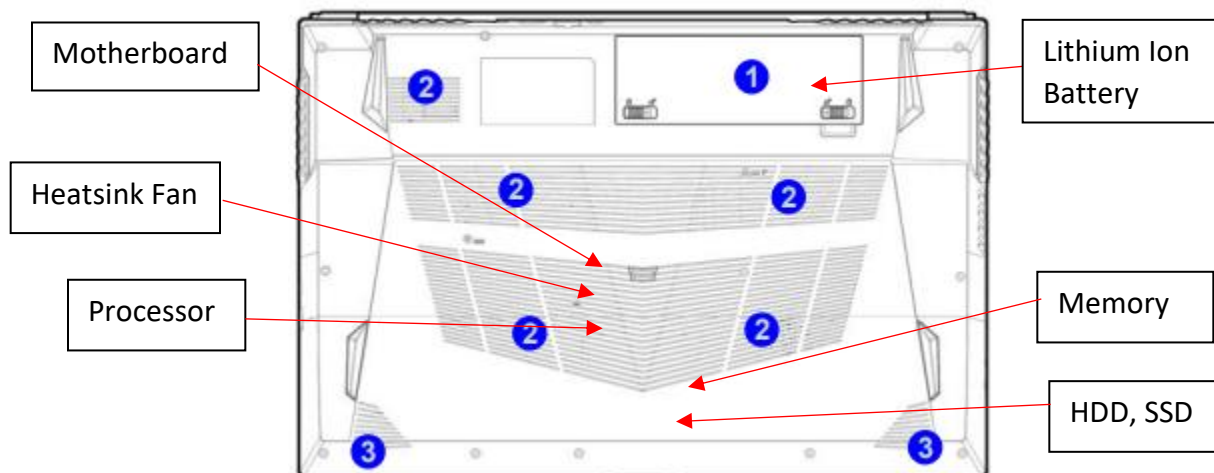## System Map: Bottom View of MR-17AHM8 Model

Figure 1 - 11
Bottom View

1. Battery
2. Vent/Fan Intake/ Outlet
3. Speakers

MR-17AHM8 Disposal/Selective Treatment

The following section outlines the components of the MR-17AHM8 that required Selective Treatment/Special Handling Per Annex VII, Directive 2012/19/EU:

The HDD, SSD, Memory, and Motherboard each contain one printed circuit board of greater than 10 sq. cm and must be removed from the device and must be disposed of, or recovered, in compliance with the requirements of Directive 2008/98/EC.

Any plastic components within the heatsink fan must be removed separately due to the presence of brominated flame retardants and shall be disposed or recovered in compliance with Directive 2008/98/EC.

The processor must be disposed of, or recovered, in compliance with the requirements of Directive 2008/98/EC.

A lithium-ion battery resides on the bottom rear of the laptop. The battery must be removed separately from the laptop and shall be disposed or recovered in compliance with Directive 2008/98/EC.

Any external electrical cables must be removed separately and shall be disposed or recovered in compliance with Directive 2008/98/EC.

The CPU does not contain any WEEE Directive Annex VII materials.

8/5/2025

Battery

⚠️ Handle used batteries carefully. Do not damage the battery in any way; a damaged battery may release hazardous materials into the environment. Do not discard a used battery in the garbage or a public landfill. Please comply with the regulations set up by your local hazardous waste management agency to dispose of your used battery properly.

Location: The battery is located on the bottom rear of the laptop, see illustration below.

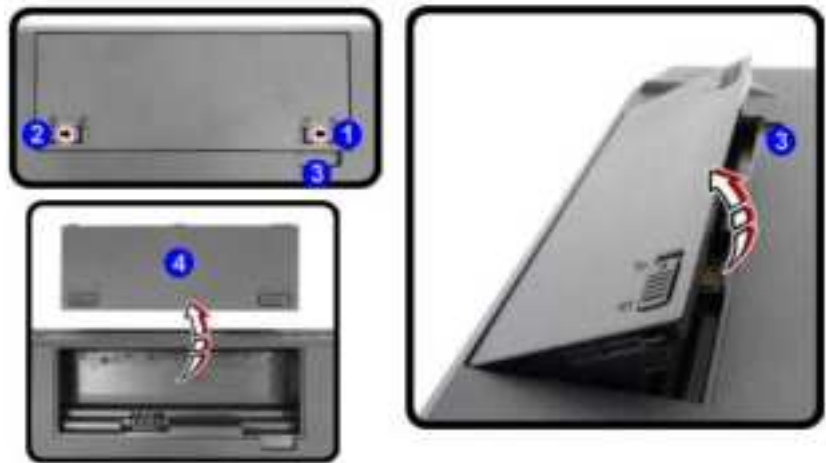Type and number of fastenings: Interference snap fit

Tools required: None.

Procedure:

Step 1: Ensure the computer is off, unplugged, and any potential energy is dissipated. Turn the laptop over.

Step 2: Slide the latch "1" in the direction of the arrow.

Step 3: Slide the latch "2" in the direction of the arrow, and hold it in place.

Step 4: Lift the battery "4" out in the direction of the arrow from point "3".

Reinstallation

Step 5: Turn the computer off, and turn it over.

Step 6: Slide the battery into the battery bay, until "1" and "2" securely latch in place.

Disposal:

🛑 Selective Treatment/ Special Handling Per Annex VII, Directive 2012/19/EU: A lithium-ion battery resides on the bottom rear of the laptop. The battery must be removed separately from the laptop and shall be disposed or recovered in compliance with Directive 2008/98/EC.

External Power Cable

Location: The inlet to the power cable is located on the I/O panel on the left view of the laptop.

Type and number of fastenings: None, direct pressure connection method.

Tools required: None.

Procedure:

Step 1: Ensure your computer is powered down.

Step 2: Disconnect the external power cable from the main laptop assembly.

Reinstallation

Step 3: Connect the external power cable from the left view of the laptop into the motherboard connection point.

Disposal:

Selective Treatment/Special Handling Per Annex VII, Directive 2012/19/EU: Any external electrical cables must be removed separately and shall be disposed or recovered in compliance with Directive 2008/98/EC.

Chassis Bottom Cover Removal

<u>Location</u>: In order to access the internal components of your system, you will need to remove the bottom cover of the chassis.

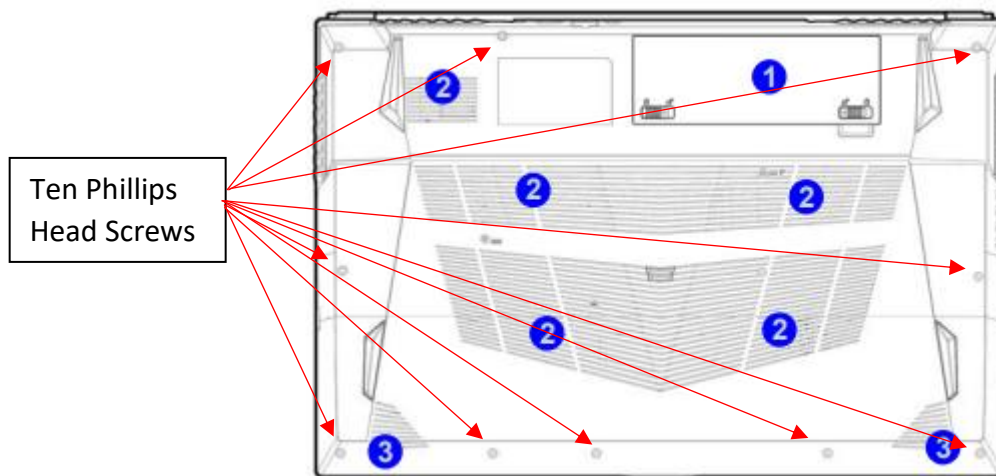<u>Type and number of fastenings</u>: Ten Phillips head screws

<u>Tools required</u>: Phillips head screwdriver

<u>Procedure</u>:

Step 1: Ensure the desktop is off, unplugged, and any potential energy is dissipated.

Step 2: Unfasten the (10) Phillips screws on the bottom front side rear of the chassis.

Step 3: Once removed, carefully slide the chassis bottom panel directly upward.

Ten Phillips Head Screws

Contact Ace Computers Support Desk for help

Ace Computers staffs a technical support desk and is always ready to help.

You can contact the team at support@acecomputers.com

- or-

call 877-223-2667

-or-

visit the acecomputers.com and click "Support" to start a new support ticket online.

UPGRADES, SERVICE, AND REPAIR

Replacement and Repair Services are available for a minimum of three years after date of purchase, and often times if a direct replacement is not available and upgrade replacement can be found for several years beyond the initial 3-year mark, ensuring the longest possible utilization of your PC.

Ordering Parts, Requesting Repair, or Talking to Technical Support

The Ace Computers technical support team is ready and available to help in providing replacement parts, helping to identify compatible upgrades, or to answer software questions.

Please have your serial number available for reference when contacting Ace Computers.

You can contact the team at support@acecomputers.com

- or-

call 877-223-2667

-or-

visit the support.acecomputers.com site online.

Spare Parts List

Component Description	Part Number
Laptop	MR-17AHM8
External Power Connection Cable	XXXXXXYYY* Power Connection Spare Part
*Where XXXXXXYYY is the initial 9 characters of the computer serial number.	
Spare parts can be purchased by contacting the Ace Computers Technical Support Team.	

PRODUCT TAKE BACK, END OF LIFE PROCESSING, and E-WASTE PROGRAM

Nation Wide Take Back Services

If your PC has reached its end of life or is no longer useable, Ace Computers is excited to offer a Nation-Wide take back service. We will work with you to get the product back and will ensure it is proper disposed of with a certified R2 electronics recycling facility.

Ace Computers has partnered with a local R2-certified electronics waste recycling facility near our HQ in Des Plaines, IL.

For additional information and steps to take regarding our Product Take-Back, End-of-Life Processing, and E-Waste Program, please visit our website at https://acecomputers.com/company/sustainability/ > EPEAT Take-Back/EOL/E-Waste Program Tab.

REVISION HISTORY

Release Date	Changes
8.05.2025	Initial Release