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› ASUS TUF 15.6 i7 RTX 4070 Gaming Laptop User Manual

ASUS FX507VI-F15.I74070

ASUS TUF Gaming Laptop User Manual

Model: FX507VI-F15.I74070

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ASUS TUF Gaming Laptop. Please read this guide thoroughly to ensure optimal performance and longevity of your device.

READY FOR ANYTHING

Windows 11 Home
OS

13thGen Intel
Core i7-13620H
Processor

Up to GeForce
RTX 4070
Laptop GPU

Up to
8TB SSD
NVMe PCIe

Up to
64GB
DDR5-5600MHz RAM

144Hz
refresh rate



Figure 1: ASUS TUF Gaming Laptop highlighting key performance features.

2. SETUP

2.1 Unboxing and Initial Power-On

1. Carefully remove the laptop and all accessories from the packaging.
2. Connect the AC adapter to the laptop's power input port and then to a power outlet.
3. Open the laptop lid and press the power button to turn on the device.
4. Follow the on-screen instructions to complete the initial Windows 11 Home setup.

2.2 Connecting Peripherals

Your ASUS TUF Gaming Laptop features a variety of ports for connecting external devices. Refer to the diagram below for port locations and types:

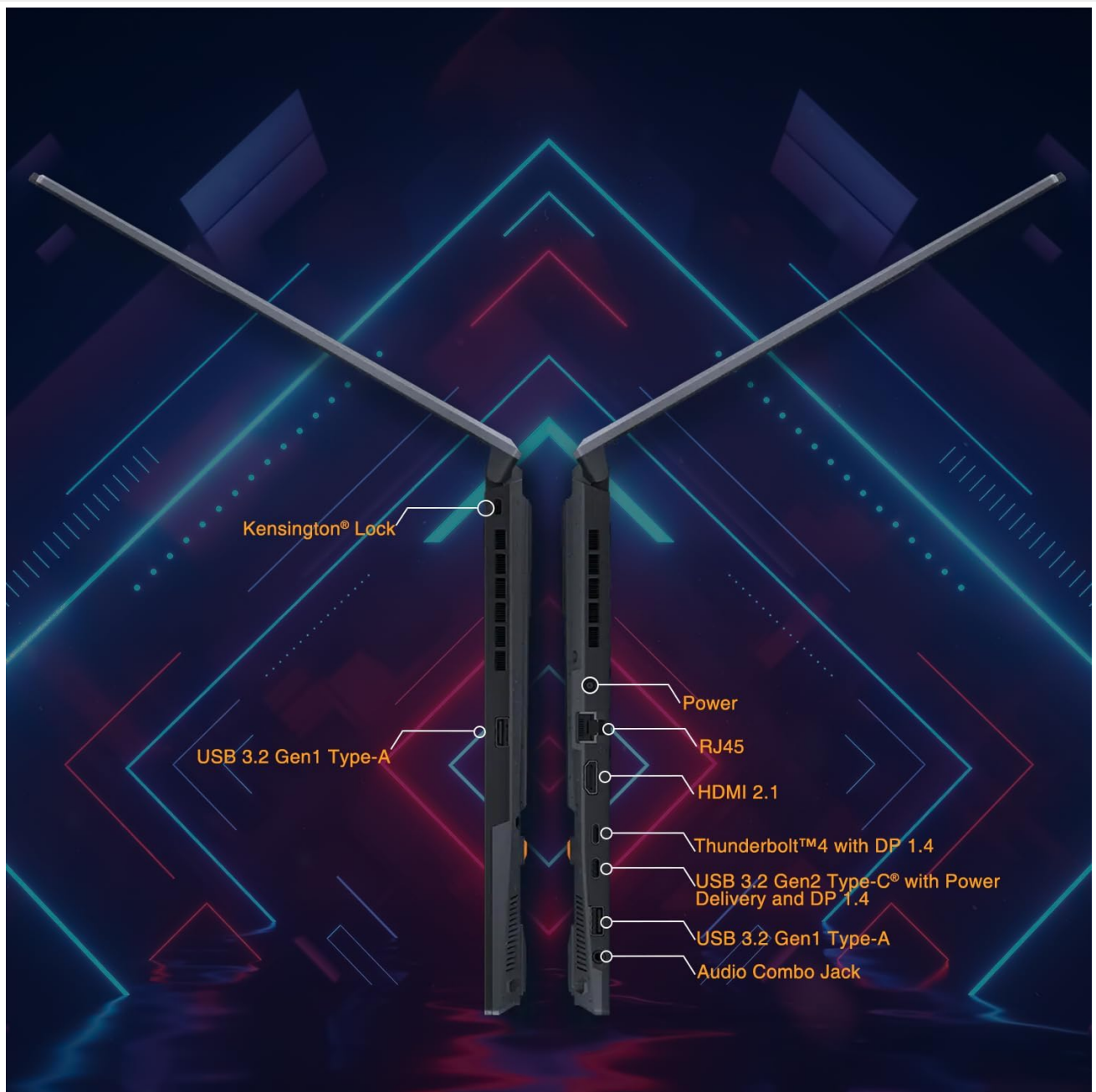


Figure 2: Laptop side view with labeled ports for connectivity.

- **Kensington Lock:** For securing your laptop.
- **USB 3.2 Gen1 Type-A (x2):** For connecting standard USB devices.
- **USB 3.2 Gen2 Type-C with Power Delivery and DP 1.4:** Versatile port for data, charging, and display output.
- **Thunderbolt 4 with DP 1.4:** High-speed port for data transfer and display output.
- **HDMI 2.1:** For connecting to external displays or TVs.
- **RJ45:** For wired Ethernet network connection.
- **Audio Combo Jack:** For connecting headphones or a headset with a microphone.

3. OPERATING YOUR LAPTOP

3.1 Basic Operation

- **Power On/Off:** Press the power button located on the keyboard deck. To shut down, use the Windows Start menu.
- **Display:** The 15.6-inch Full HD (1920x1080) display offers a 144Hz refresh rate for smooth visuals, especially

during gaming.

- **Windows 11 Home:** Navigate the operating system using the touchpad or an external mouse. Explore features like improved window layouts and enhanced gaming capabilities.

3.2 Keyboard Features

Your laptop features an RGB backlit keyboard designed for gaming and productivity.



Figure 3: Detailed view of the RGB backlit keyboard.

- **RGB Backlighting:** Customize the keyboard lighting effects through the pre-installed ASUS software.
- **Hotkeys:** Utilize dedicated hotkeys for quick access to functions like volume control, display brightness, and fan speed.
- **Numeric Keypad:** For convenient data entry.

TAKE CHARGE

Up to
90Wh
Battery

50% in 30 mins
Fast Charging Technology



Figure 4: Laptop in use, demonstrating its gaming capabilities.

4. MAINTENANCE

4.1 Cooling System

Your laptop is equipped with an advanced cooling system featuring 4 dedicated exhaust vents to manage heat effectively. Proper airflow is crucial for maintaining performance and preventing overheating.

VENT THE HEAT

4 dedicated exhaust vents ensure that warm air has an easy path out of the machine.

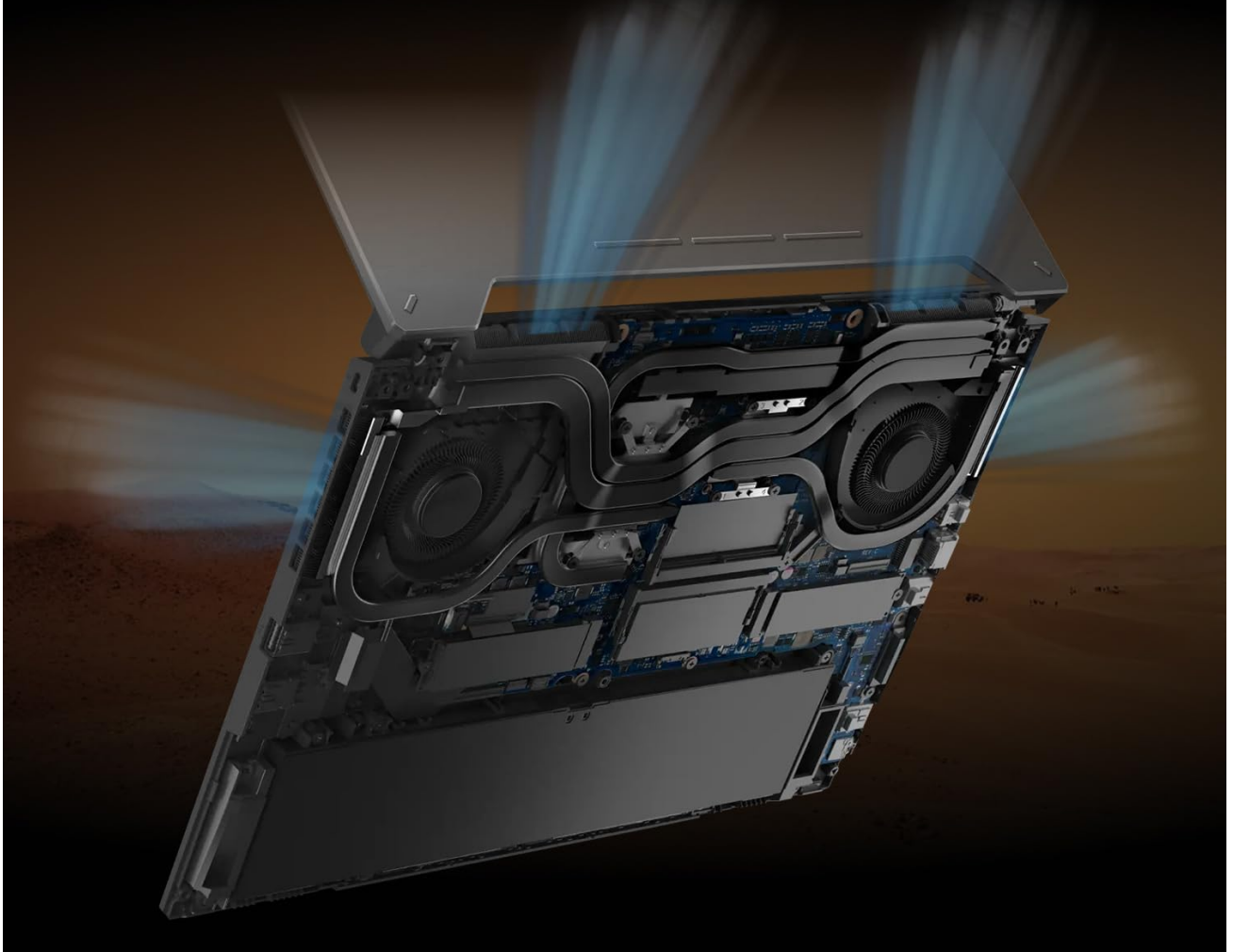


Figure 5: Internal view of the laptop's cooling system.

- Ensure the vents are not obstructed by clothing, bedding, or other objects.
- Operate the laptop on a hard, flat surface to allow for proper airflow.
- Periodically clean dust from the vents using compressed air.

4.2 Battery Care

The laptop features a 90Wh battery with fast charging technology, allowing it to reach 50% charge in approximately 30 minutes.

Why Choose



Professional
Team



Dedicated
Customer Service



Environmental
Sustainability

Figure 6: Laptop charging, illustrating battery capacity and fast charge feature.

- For optimal battery life, avoid frequently discharging the battery completely.
- Store the laptop in a cool, dry place when not in use for extended periods.
- Use only the original ASUS AC adapter or a certified compatible replacement.

4.3 General Cleaning

- Use a soft, lint-free cloth to clean the screen and exterior surfaces.
- Avoid using harsh chemicals or abrasive cleaners.
- Ensure the laptop is powered off and unplugged before cleaning.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your ASUS TUF Gaming Laptop.

5.1 Power and Display Issues

- **Laptop Does Not Power On:** Ensure the AC adapter is securely connected and the power outlet is functional.

Try a different power outlet. If the battery is completely drained, allow it to charge for at least 30 minutes before attempting to power on.

- **Screen Not Lighting Up:** Check if the laptop is powered on. Connect an external monitor via HDMI to determine if the issue is with the laptop's internal display or the graphics output. If an external monitor works, the internal display may require service.

5.2 Performance and Software Issues

- **Slow Performance:** Ensure all Windows updates are installed. Update your NVIDIA graphics drivers to the latest version from the official NVIDIA website. Close unnecessary background applications. Check for malware or viruses.
- **Overheating:** Refer to the Maintenance section (4.1 Cooling System) to ensure proper airflow. Reduce demanding tasks if the laptop consistently runs hot.
- **Software Glitches:** Restart the laptop. If issues persist, consider performing a system restore or reinstalling problematic software.

5.3 Peripheral and Connectivity Issues

- **USB Devices Not Recognized:** Try connecting the device to a different USB port. Ensure device drivers are installed.
- **Wi-Fi/Bluetooth Connectivity Problems:** Ensure Wi-Fi and Bluetooth are enabled in Windows settings. Restart your router/modem. Update wireless drivers.
- **Audio Issues:** Check volume settings and ensure headphones/speakers are properly connected to the audio combo jack. Update audio drivers.

6. SPECIFICATIONS

Below are the detailed technical specifications for your ASUS TUF Gaming Laptop (Model: FX507VI-F15.I74070).

Feature	Specification
Brand	ASUS
Model Name	FX507VI-F15.I74070
Processor	Intel Core i7-13620H (10 Cores, 16 Threads, 24MB L3 Cache, up to 4.9 GHz)
Graphics Card	NVIDIA GeForce RTX 4070 (8GB GDDR6 Dedicated)
RAM Memory	32 GB DDR5 (4800 MHz), Max 64 GB
Storage	1 TB PCIe NVMe M.2 SSD
Operating System	Windows 11 Home
Display	15.6-inch FHD (1920x1080) Non-touch, 144Hz LED
Ports	2x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen2 Type-C (PD/DP 1.4), 1x Thunderbolt 4 (DP 1.4), 1x HDMI 2.1, 1x RJ45, 1x Audio Combo Jack, 1x Kensington Lock, 1x Power
Wireless Connectivity	Wi-Fi 6E (802.11ax), Bluetooth 5.0
Keyboard	RGB Backlit, Numeric Keypad

Feature	Specification
Battery	Lithium Ion, 45 Watt Hours (up to 90Wh capacity mentioned in features)
Dimensions (L x W x Thickness)	13.97" x 9.92" x 0.89"
Weight	4.85 Pounds

7. WARRANTY INFORMATION

Your ASUS TUF Gaming Laptop comes with a limited warranty. For complete details regarding the terms, conditions, and duration of your warranty, please refer to the warranty card included in your product packaging. You can also find the most up-to-date warranty information and registration details on the official ASUS support website.

8. CUSTOMER SUPPORT

Should you require further assistance, technical support, or have service inquiries that are not covered in this manual, please visit the official ASUS support website. The website provides access to drivers, FAQs, troubleshooting guides, and contact information for customer service representatives.

For online support, please visit: www.asus.com/support/