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You can read the recommendations in the user guide, the technical guide or the installation guide for ASUS X552EP-SX037H. You'll find the answers to all your questions on the ASUS X552EP-SX037H in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ASUS X552EP-SX037H
User guide ASUS X552EP-SX037H
Operating instructions ASUS X552EP-SX037H
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ASUS[®]

Notebook PC

E-Manual



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Manual abstract:

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Power button Press the power button to turn your Notebook PC on or off. You can also use the power button to put your Notebook PC to sleep or hibernate mode and wake it up from sleep or hibernate mode.

In the event that your Notebook PC becomes unresponsive, press and hold the power button for about four (4) seconds until your Notebook PC shuts down.

Notebook PC E-Manual 15 Numeric keypad (on selected models) The numeric keypad toggles between these two functions: for numeric input and as pointer direction keys. **NOTE:** For more details, refer to the Numeric keypad (on selected models) section in this manual.

Keyboard The keyboard provides full-sized QWERTY keys with a comfortable travel depth for typing. It also enables you to use the function keys, allows quick access to Windows®, and controls other multimedia functions. **NOTE:** The keyboard layout differs by model or territory.

Touchpad The touchpad allows the use of multi-gestures to navigate onscreen, providing an intuitive user experience. It also simulates the functions of a regular mouse. **NOTE:** For more details, refer to the Gestures for the touchpad section in this manual.

16 Notebook PC E-Manual Status indicators The status indicators help identify the current hardware status of your Notebook PC.

Power indicator The power indicator lights up when the Notebook PC is turned on and blinks slowly when the Notebook PC is in sleep mode.

Two-color battery charge indicator The two-color LED provides a visual indication of the battery's charge status. Refer to the following table for details:

Color	Status
Solid Green	The Notebook PC is plugged to a power source and the battery power is between 95% and 100%.
Solid Orange	The Notebook PC is plugged to a power source, charging its battery, and the battery power is less than 95%.
Blinking Orange	The Notebook PC is running on battery mode and the battery power is less than 10%.
Lights off	The Notebook PC is running on battery mode and the battery power is between 10% to 100%.

17 Drive activity indicator This indicator lights up when your Notebook PC is accessing the internal storage drives.

Bluetooth / Wireless indicator This indicator lights up when your Notebook PC's wireless function (Bluetooth or Wi-Fi) is enabled.

Number lock indicator (on selected models) This indicator lights up when the number lock function is activated. This allows you to use some of the keys on your keyboard for numeric input.

Capital lock indicator This indicator lights up when the capital lock function is activated. Using capital lock allows you to type capitalized letters (such as A, B, C) using your Notebook PC's keyboard.

18 Notebook PC E-Manual Bottom **NOTE:** The bottom side may vary in appearance depending on model.

WARNING! The bottom of the Notebook PC can get warm to hot while in use or while charging the battery pack. When working on your Notebook PC, do not place it on surfaces that can block the vents.

IMPORTANT! Battery time varies by usage and by the specifications for this Notebook PC. The battery pack cannot be disassembled.

19 Battery pack The battery pack is automatically charged when your Notebook PC is connected to a power source. When charged, the battery pack supplies power to your Notebook PC.

Spring battery lock (on selected models) The spring battery lock automatically locks the battery pack in place once it is inserted into the battery slot.

IMPORTANT! This lock should be held in an unlocked position when removing the battery pack.

Manual battery lock (on selected models) The manual battery lock is used to keep the battery pack secured. This lock should be manually moved to a locked or unlocked position to insert or remove the battery pack.

Air vents The air vents allow cool air to enter and warm air to exit the Notebook PC. **WARNING!** Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

Hard disk drive compartment (on selected models) This compartment is a reserved space for the HDD (hard disk drive) of your Notebook PC.

Random-access memory module compartment (on selected models) This compartment allows you to add RAM (random-access memory) modules to increase the memory capacity of your Notebook PC.

20 Notebook PC E-Manual Right Side 15" and 14" model **USB 2.0 port (on selected models)** This USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers.

Optical drive Your Notebook PC's optical drive may support several disc formats such as CDs, DVDs, recordable discs, or rewritable discs.

Optical disc drive eject button Press this button to eject the optical drive tray.

Notebook PC E-Manual 21 Optical disc drive manual eject hole The manual eject hole is used to eject the drive tray in case the electronic eject button does not work. **WARNING!** Use the manual eject hole only when the electronic eject button does not work.

NOTE: For more details, refer to the Using the optical drive section in this manual.

Kensington® security slot The Kensington® security slot allows you to secure your Notebook PC using Kensington® compatible Notebook PC security products.

22 Notebook PC E-Manual Left Side 15" and 14" model **Power (DC) input port** Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC. **WARNING!** The adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

IMPORTANT! Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

Air vents The air vents allow cool air to enter and warm air to exit the Notebook PC. **WARNING!** Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

VGA port This port allows you to connect your Notebook PC to an external display.

Notebook PC E-Manual 23 HDMI port This port is for the HDMI (High-Definition Multimedia Interface) connector and is HDCP compliant for HD DVD, Blu-ray, and other protected content playback.

LAN port Insert the network cable into this port to connect to a local area network.

USB 3.0 port The USB (Universal Serial Bus) 3.0 port provides a transfer rate of up to 5 Gbit/s and are backward compatible to USB 2.0.

USB 2.0 port This USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers.

Headphone output/microphone input combo jack port This port allows you to connect your Notebook PC to amplified speakers or headphones. You can also use this port to connect your Notebook PC to an external microphone.

24 Notebook PC E-Manual Front Side **NOTE:** The front side may vary in appearance depending on model.



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Status indicators The status indicators help identify the current hardware status of your Notebook PC. Memory card reader This built-in memory card reader supports SD and SDHC card formats. Notebook PC E-Manual 25 26 Notebook PC E-Manual Chapter 2: Using your Notebook PC Notebook PC E-Manual 27 Getting started NOTE: If your Notebook PC does not have its battery pack installed, use the following procedures for installation.

Install the battery pack. (on selected models) A. B. C. Move the manual battery lock to the unlocked position.

Align and insert the battery pack into the Notebook PC's battery slot. Move the manual battery lock back to the locked position after inserting the battery pack. 28 Notebook PC E-Manual Charge your Notebook PC. A. B.

C. Connect the AC power cord to the AC/DC adapter. Plug the AC power adapter into a 100V~240V power source. Connect the DC power connector into your Notebook PC's power (DC) input. Charge the Notebook PC for 3 hours before using it in battery mode for the first time. NOTE: The power adapter may vary in appearance, depending on models and your region. Notebook PC E-Manual 29 IMPORTANT! •••Ensure that your Notebook PC is connected to a grounded power adapter before turning it on for the first time. When using your Notebook PC on power adapter mode, the socket outlet must be near to the unit and easily accessible. Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.

Power adapter information: - - - Input voltage: 100-240Vac Input frequency: 50-60Hz Rating output current: 3.42A (65W), 4.74A (90W) Rating output voltage: 19V • 30 Notebook PC E-Manual Lift to open the display panel. Press the power button. Notebook PC E-Manual 31 Gestures for the touchpad Gestures allow you to launch programs and access the settings of your Notebook PC. Refer to the following illustrations when using hand gestures on your touchpad. Moving the pointer You can tap or click anywhere on the touchpad to activate its pointer, then slide your finger on the touchpad to move the pointer onscreen. Slide horizontally Slide vertically Slide diagonally 32 Notebook PC E-Manual One-finger gestures Tap/Double tap ••In the Start screen, tap an app to launch it. In Desktop mode, double-tap an application to launch it. Drag and drop Double-tap an item, then slide the same finger without lifting it off the touchpad.

To drop the item to its new location, lift your finger from the touchpad. Notebook PC E-Manual 33 Left-click Right-click ••In the Start screen, click an app to launch it. In Desktop mode, doubleclick an application to launch it. •In the Start screen, click an app to select it and launch the settings bar. You can also press this button to launch the All Apps bar.

In Desktop mode, use this button to open the rightclick menu. •NOTE: The areas inside the dotted line represent the locations of the left mouse button and the right mouse button on the touchpad. 34 Notebook PC E-Manual Top edge swipe ••In the Start screen, swipe from the top edge to launch the All Apps bar. In a running app, swipe from the top edge to view its menu. Right edge swipe Left edge swipe Swipe from the left edge to shuffle Swipe the right edge to launch your running apps.

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Swipe three fingers downward to show the Desktop mode. 38 Notebook PC E-Manual Using the keyboard Function keys The function keys on your Notebook PC's keyboard can trigger the following commands: Puts the Notebook PC into Sleep mode Turns Airplane mode on or off NOTE: When enabled, the Airplane mode disables all wireless connectivity. Decreases display brightness Increases display brightness Turns the display panel off Activates the second screen NOTE: Ensure that the second display is connected to your Notebook PC. Enables or disables the touchpad Turns the speaker on or off Notebook PC E-Manual 39 Turns the speaker volume down Turns the speaker volume up Function keys for ASUS Apps Your Notebook PC also comes with a special set of function keys that can be used to launch ASUS apps. Toggles the ASUS Splendid Video Enhancement Technology app to switch between these display color enhancement modes: Gamma Correction, Vivid Mode, Theater Mode, Soft Mode, My Profile, and Normal. Launches the ASUS LifeFrame app Launches the ASUS Power4Gear Hybrid app 40 Notebook PC E-Manual Windows®8 keys There are two special Windows® keys on your Notebook PC's keyboard used as below: Press this key to go back to the Start screen. If you are already in the Start screen, press this key to go back to the last app you opened. Press this key to simulate the right-click functions. Multimedia control keys (on selected models) The multimedia control keys allow you to control multimedia files, such as audios and videos, when played in your Notebook PC. Press in combination with the arrow keys on your Notebook PC, illustrated as below.

Stop Skip to previous track or rewind Play or pause Skip to next track or fast forward Notebook PC E-Manual 41 Numeric keypad (on selected models) A numeric keypad is available on selected Notebook PC models. You can use this keypad for numeric input or as pointer direction keys. Press to toggle between using the keypad as number keys or as pointer direction keys. 42 Notebook PC E-Manual Using the optical drive NOTE: The actual location of the electronic eject button may vary depending on your Notebook PC model. Inserting an optical disc 1.

While the Notebook PC is on, press the electronic eject button to partially eject the optical drive tray. 2. Gently pull out the drive tray. IMPORTANT! Be careful not to touch the optical drive lens. Ensure that there are no objects that may get jammed under the drive tray. 3. Hold the disc by the edge, with its printed side up, then gently place it inside the hub. Notebook PC E-Manual 43 4. Push down the disc's plastic hub until it snaps onto the optical drive hub.



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5. Push the drive tray gently to close the optical drive. **NOTE:** While data is being read, it is normal to hear some spinning and vibrating in the optical drive. **Manual eject hole** The manual eject hole is located on the optical drive door and is used to eject the optical drive tray in case the electronic eject button does not work. To manually eject the optical drive tray, insert a straightened paper clip into the manual eject hole until the drive tray opens. **WARNING!** Use the manual eject hole only when the electronic eject button does not work.

44 Notebook PC E-Manual Chapter 3: Working with Windows® 8 Notebook PC E-Manual 45 Starting for the first time When you start your computer for the first time, a series of screens appear to guide you in configuring the basic settings of your Windows® 8 operating system. To start your Notebook PC for the first time: 1. 2. 3. 4. Press the power button on your Notebook PC. Wait for a few minutes until the setup screen appears. From the setup screen, pick a language to use on your Notebook PC. Carefully read the License Terms. Tick I accept the terms for using Windows then click Accept.

Follow the onscreen instructions to configure the following basic items: ••••• 5. Keep your PC secure Personalize Wireless Settings Sign in to your PC After configuring the basic items, the Windows®8 tutorial appears. Watch this to learn more about Windows®8 functionalities. Windows® 8 lock screen The Windows®8 lock screen may appear when your Notebook PC enters the Windows®8 operating system. To proceed, tap on the lock screen or press any key on your Notebook PC's keyboard.

46 Notebook PC E-Manual Windows® UI Windows® 8 comes with a tile-based user interface (UI) which allows you to organize and easily access Windows® apps from the Start screen. It also includes the following features that you can use while working on your Notebook PC. Start screen The Start screen appears after successfully signing in to your user account. It helps organize all the applications you need in just one place. Zoom in/out button Windows® Apps These are apps pinned on the Start screen and displayed on tiled-format for easy access.

NOTE: Some apps require signing in to your Microsoft account before they are fully launched. Notebook PC E-Manual 47 Hotspots Onscreen hotspots allow you to launch programs and access the settings of your Notebook PC. The functions in these hotspots can be activated using the touchpad. Hotspots on a running app Hotspots on the Start screen 48 Notebook PC E-Manual Hotspot upper left corner Action Hover your mouse pointer on the upper left corner then tap on the recent app's thumbnail to revert back to that running app. If you launched more than one app, slide down to show all running apps. lower left corner From a running app screen: Hover your mouse pointer on the lower left corner then tap on the Start screen's thumbnail to go back to the Start screen.

NOTE: You can also press the Windows key on your keyboard to go back to the Start screen. From the Start screen: Hover your mouse pointer on the lower left corner then tap on the running app's thumbnail to go back to that app. Notebook PC E-Manual 49 Hotspot top side Action Hover your mouse pointer on the top side until it changes to a hand icon. Drag then drop the app to a new location.

NOTE: This hotspot function only works on a running app or when you want to use the Snap feature. For more details, refer to the Snap feature under Working with Windows® apps. upper or lower right corner Hover your mouse pointer on the upper or lower right corner to launch the Charms bar. 50 Notebook PC E-Manual Working with Windows® apps Use your Notebook PC's touchpad, or keyboard to launch, customize, and close apps. Launching apps Position your mouse pointer over the app then left-click or tap once to launch it. Press twice then use the arrow keys to browse to launch an app. through the apps. Press Customizing apps You can move, resize, unpin, or close apps from the Start screen using the following steps: Moving apps Double-tap on the app then drag and drop the app to a new location. Resizing apps Right-click on the app to activate its settings bar then tap or . Notebook PC E-Manual 51

Unpinning apps Right-click on the app to activate the settings bar then tap .

Closing apps 1. Move your mouse pointer on the top side of the launched app then wait for the pointer to change to a hand icon. Drag then drop the app to the bottom of the screen to close it. 2. From the running app's screen, press .

52 Notebook PC E-Manual Accessing the Apps screen Aside from the apps already pinned on your Start screen, you can also open other applications through the Apps screen. Horizontal scroll bar Launching the Apps screen Launch the Apps screen using your Notebook PC's touchpad or keyboard. Swipe from the top edge to launch the All Apps bar. From the Start screen, press All Apps icon then press to select the . Notebook PC E-Manual 53 Pinning more apps on the Start screen You can pin more apps on the Start screen using your touchpad.

1. 2. 3. Position the mouse pointer over the app you want to pin on the Start screen. Right-click on the app to activate its settings. Tap on the icon. 54 Notebook PC E-Manual Charms bar The Charms bar is a toolbar that can be triggered on the right side of your screen. It consists of several tools that allow you to share applications and provide quick access for customizing the settings of your Notebook PC. Charms bar Launching the Charms bar **NOTE:** When called out, the Charms bar initially appears as a set of white icons. The image above shows how the Charms bar looks like once activated.

Use your Notebook PC's touchpad, or keyboard to launch the Charms bar. Move your mouse pointer on the upper or lower right corner of the screen. Press Notebook PC E-Manual 55 Inside the Charms bar Search This tool allows you to look for files, applications, or programs in your Notebook PC. Share This tool allows you to share applications via social networking sites or email. Start This tool reverts the display back to the Start screen. From the Start screen, you can also use this to revert back to a recently opened app. Devices This tool allows you to access and share files with the devices attached to your Notebook PC such as an external display or printer. Settings This tool allows you to access the PC settings of your Notebook PC. 56 Notebook PC E-Manual Snap feature The Snap feature displays two apps side-by-side, allowing you to work or switch between apps. **IMPORTANT!** Ensure that your Notebook PC's screen resolution is set to 1366 x 768 pixels or higher before using the Snap feature.

Snap bar Notebook PC E-Manual 57 Using Snap Use your Notebook PC's touchpad, or keyboard to activate and use Snap. 1. 2. 3. Launch the app you wish to snap.

Hover the mouse point on the top side of your screen.



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Once the pointer changes to a hand icon, drag then drop the app to the left or right side of the display panel. Launch another app. 4. 1. 2. 3. 4. Launch the app you wish to snap. Press . Launch another app. To switch between apps, press . 58 Notebook PC E-Manual Other keyboard shortcuts Using the keyboard, you can also use the following shortcuts to help you launch applications and navigate Windows®. \ Switches between the Start screen and the last running app Launches the desktop Launches the Computer window on Desktop mode Opens the File charm Opens the Share charm Opens the Settings charm Opens the Devices charm Activates the Lock screen Minimizes the Internet Explorer window Notebook PC E-Manual 59 Opens the Second screen pane Opens the Apps search pane Opens the Run window Opens Ease of Access Center Opens the Settings charm Opens a menu box of Windows® tools Launches the magnifier icon and zooms in your screen Zooms out your screen Opens the Narrator Settings Enables the print screen function 60 Notebook PC E-Manual Connecting to wireless networks Wi-Fi Access emails, surf the Internet, and share applications via social networking sites using your Notebook PC's Wi-Fi connection. IMPORTANT! The Airplane mode disables this feature.

Ensure that Airplane mode is turned off before enabling the Wi-Fi connection of your Notebook PC. Enabling Wi-Fi Activate Wi-Fi in your Notebook PC using the following steps on your touchpad. 1. 2. 3. Launch the Charms bar. Tap and tap . Select an access point from the list of available Wi-Fi connections. Notebook PC E-Manual 61 4. Tap Connect to start the network connection.

NOTE: You may be prompted to enter a security key to activate the Wi-Fi connection. 5. If you want to enable sharing between your Notebook PC and other wireless-enabled systems, tap Yes, turn on sharing and connect to devices. Tap No, don't turn on sharing or connect to devices if you do not want to enable the sharing function. 62 Notebook PC E-Manual Bluetooth Use Bluetooth to facilitate wireless data transfers with other Bluetooth-enabled devices.

IMPORTANT! The Airplane mode disables this feature. Ensure that Airplane mode is turned off before enabling the Bluetooth connection of your Notebook PC. Pairing with other Bluetooth-enabled devices You need to pair your Notebook PC with other Bluetooth-enabled devices to enable data transfers. To do this, use your touchpad as follows: 1. 2.

3. Launch the Charms bar. Tap then tap Change PC Settings. Under PC Settings, select Devices then tap Add a Device to search for Bluetooth-enabled devices. Notebook PC E-Manual 63 4. Select a device from the list. Compare the passcode on your Notebook PC with the passcode sent to your chosen device. If they are the same, tap Yes to successfully pair your Notebook PC with the device. NOTE: For some bluetooth-enabled devices, you may be prompted to key in the passcode of your Notebook PC. 64 Notebook PC E-Manual Airplane mode The Airplane mode disables wireless communication, allowing you to use your Notebook PC safely while in-flight.

Turning Airplane mode on 1. 2. 3. Launch the Charms bar. Tap and tap . Move the slider to the right to turn the Airplane mode on. . Press Turning Airplane mode off 1. 2. 3.

Launch the Charms bar. Tap and tap . Move the slider to the left to turn the Airplane mode off. Press . NOTE: Contact your airline provider to learn about related inflight services that can be used and restrictions that must be followed when using your Notebook PC in-flight.

Notebook PC E-Manual 65 Connecting to wired networks You can also connect to wired networks, such as local area networks and broadband Internet connection, using your Notebook PC's LAN port. NOTE: Contact your Internet Service Provider (ISP) for details or your network administrator for assistance in setting up your Internet connection. To configure your settings, refer to the following procedures. IMPORTANT! Ensure that a network cable is connected between your Notebook PC's LAN port and a local area network before performing the following actions. Configuring a dynamic IP/PPPoE network connection 1.

◆◆◆◆◆ Desktop. Launch 2. From the Windows® taskbar, right-click the network icon Center. @@Right-click on your LAN then select Properties. @@@@Connect to the Internet then tap Next. Tap Broadband (PPPoE). Type your User name, Password, and Connection name then tap Connect. Tap Close to finish the configuration. @@@@Tap Use the following IP address. @@@@• From the log-in screen, tap down.

• You can also shut down your Notebook PC using Desktop mode. @@Select Shut Down from the drop-down list then select OK. @@@@You can also put your Notebook PC to sleep mode using Desktop mode. @@@@@ You have installed a new system component that requires further BIOS settings or updates. WARNING: Using inappropriate BIOS settings may result to system instability or boot failure. We strongly recommend that you change the BIOS settings only with the help of a trained service personnel. Accessing BIOS Restart your Notebook PC then press during POST. 78 Notebook PC E-Manual BIOS Settings NOTE: The BIOS screens in this section are for reference only. The actual screens may differ by model and territory. Boot This menu allows you to set your boot option priorities.

You may refer to the following procedures when setting your boot priority. 1. Main On the Boot screen, select Boot Option #1. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Advanced Boot Security Save & Exit Sets the system boot order Boot Configuration Fast Boot Launch CSM Driver Option Priorities Boot Option Priorities Boot Option #1 [Windows Boot Manager] [Enabled] [Disabled] Add New Boot Option Delete Boot Option →← : : ↑↓ Enter: +/— : F1 : F9 : F10 : ESC : Select Screen Select Item Select Change Opt.

General Help Optimized Defaults Save & Exit Exit Version 2.15.1226. Copyright (C) 2012 American Megatrends, Inc. Notebook PC E-Manual 79 2. Press and select a device as the Boot Option #1. Main Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Advanced Boot Security Save & Exit [Enabled] [Disabled] Sets the system boot order Boot Configuration Fast Boot Launch CSM Driver Option Priorities Boot Option Priorities Boot Option #1 Boot Option #1 Windows Boot Manager] [Windows Boot Manager Disabled Add New Boot Option Delete Boot Option →← : : ↑↓ Enter: +/— : F1 : F9 : F10 : ESC : Select Screen Select Item Select Change Opt. General Help Optimized Defaults Save & Exit Exit Version 2.15.1226. Copyright (C) 2012 American Megatrends, Inc. 80 Notebook PC E-Manual Security This menu allows you to set up the administrator and user password of your Notebook PC. It also allows you to control the access to your Notebook PC's hard disk drive, input/output (I/O) interface, and USB interface. NOTE: •• If you install a User Password, you will be prompted to input this before entering your Notebook PC's operating system.



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If you install an Administrator Password, you will be prompted to input this before entering BIOS. Main Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Advanced Boot Security Save & Exit Set Administrator Password. The password length must be in the following range: Minimum length 3 Maximum length 20 Password Description If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup. If ONLY the user's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup, the User will have Administrator rights. Administrator Password Status User Password Status Administrator Password User Password HDD Password Status : Set Master Password Set User Password I/O Interface Security System Mode state Secure Boot state Secure Boot Control Key Management User Enabled [Enabled] NOT INSTALLED NOT INSTALLED NOT INSTALLED →← : : ↑↓ Enter: +/— : F1 : F9 : F10 : ESC : Select Screen Select Item Select Change Opt. General Help Optimized Defaults Save & Exit Exit Version 2.15.1226.

Copyright (C) 2012 American Megatrends, Inc. Notebook PC E-Manual 81 To set the password: 1. On the Security screen, select Administrator Password or User Password. Type in a password then press . .

2. 3. Re-type to confirm the password then press To clear the password: 1. On the Security screen, select Administrator Password or User Password. Type in the current password then press .

2. 3. Leave the Create New Password field blank then press . 4. Select Yes in the confirmation box then press . 82 Notebook PC E-Manual I/O Interface Security In the Security menu, you can access I/O Interface Security to lock or unlock some interface functions of your Notebook PC. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Security I/O Interface Security LAN Network Interface Wireless Network Interface HD AUDIO Interface USB Interface Security LAN Network Interface [UnLock] [UnLock] [UnLock] If Locked, LAN controller will be disabled. Lock UnLock →← : Select Screen : Select Item ↑↓ Enter: Select +/— : Change Opt. F1 : General Help F9 : Optimized Defaults F10 : Save & Exit ESC : Exit Version 2.

15.1226. Copyright (C) 2012 American Megatrends, Inc. To lock an interface: 1. 2. On the Security screen, select I/O Interface Security. Select an interface you would like to lock then press . 3. Select Lock. Notebook PC E-Manual 83 USB Interface Security Through the I/O Interface Security menu, you can also access USB Interface Security to lock or unlock ports and devices.

Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Security USB Interface Security USB Interface External Ports CMOS Camera Card Reader Lock UnLock [UnLock] [UnLock] [UnLock] [UnLock] USB Interface If Locked, all USB device will be disabled →← : Select Screen : Select Item ↑↓ Enter: Select +/— : Change Opt. F1 : General Help F9 : Optimized Defaults F10 : Save & Exit ESC : Exit Version 2.15.1226.

Copyright (C) 2012 American Megatrends, Inc. To lock the USB interface: 1. 2. On the Security screen, select I/O Interface Security > USB Interface Security. Select an interface that you would like to lock then select Lock.

NOTE: Setting the USB Interface to Lock also locks and hides the External Ports and other devices included under USB Interface Security. 84 Notebook PC E-Manual Set Master Password In the Security menu, you can use Set Master Password to set up a password-enabled access to your hard disk drive. Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Main Advanced Boot Security Aptio Setup Utility - Copyright (C) Save & Exit 2011 American Megatrends, Inc. Password Description If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup. If ONLY the user's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup, the User will have Administrator rights. Administrator Password Status User Password Status Administrator Password User Password HDD Password Status : Set Master Password Set User Password I/O Interface Security NOT INSTALLED →← : Select Screen : Select Item ↑↓ Enter: Select +/— : Change Opt. F1 : General Help F9 : Optimized Defaults F10 : Save & Exit ESC : Exit NOT INSTALLED NOT INSTALLED Set HDD Master Password. ***Advisable to Power Cycle System after Setting Hard Disk Passwords*** Version 2.

15.1226. Copyright (C) 2012 American Megatrends, Inc. To set the HDD password: 1. 2. 3. 4. On the Security screen, select Set Master Password. Type in a password then press . .

Re-type to confirm the password then press Select Set User Password then repeat the previous steps to set up the user password. Notebook PC E-Manual 85 Save & Exit To keep your configuration settings, select Save Changes and Exit before exiting the BIOS. Main Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc. Advanced Boot Security Save & Exit Exit system setup after saving the changes. Save Changes and Exit Discard Changes and Exit Save Options Save Changes Discard Changes Restore Defaults Boot Override Windows Boot Manager Launch EFI Shell from filesystem device →← : : ↑↓ Enter: +/— : F1 : F9 : F10 : ESC : Select Screen Select Item Select Change Opt.

General Help Optimized Defaults Save & Exit Exit Version 2.15.1226. Copyright (C) 2012 American Megatrends, Inc. 86 Notebook PC E-Manual To update the BIOS: 1.

2. 3. 4. 5. Verify the Notebook PC's exact model then download the latest BIOS file for your model from the ASUS website. Save a copy of the downloaded BIOS file to a flash disk drive. Connect your flash disk drive to your Notebook PC. Restart your Notebook PC then press during POST. From the BIOS menu, Select Advanced > Start Easy Flash, then press . Aptio Setup Utility - Copyright (C) 2012 American Megatrends, Inc.

Aptio Setup Utility - Copyright (C) 2011 American Megatrends, Inc. Main Advanced Boot Security Save & Exit Start Easy Flash Internal Pointing Device Wake on Lid Open Power Off Energy Saving SATA Configuration Graphics Configuration Intel (R) Anti-Theft Technology Corporation USB Configuration Network Stack →← : : ↑↓ Enter: +/— : F1 : F9 : F10 : ESC : Select Screen Select Item Select Change Opt. General Help Optimized Defaults Save & Exit Exit [Enabled] [Enabled] [Enabled] Press Enter to run the utility to select and update BIOS. Version 2.15.1226. Copyright (C) 2012 American Megatrends, Inc. Notebook PC E-Manual 87 6. Locate your downloaded BIOS file in the flash disk drive then press . ASUSTek Easy Flash Utility FLASH TYPE: MXIC 25L Series Current BIOS Platform: X450/X550 Version: 101 Build Date: Oct 26 2012 Build Time: 11:51:05 New BIOS Platform: Unknown Version: Unknown Build Date: Unknown Build Time: Unknown FSO FS1 FS2 FS3 FS4 0 EFI <DIR> [←→]: Switch [↑↓]: Choose [q]: Exit [Enter]: Enter/Execute 7.



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After the BIOS update process, select Exit > Restore Defaults to restore the system to its default settings. 88 Notebook PC E-Manual Troubleshoot By pressing during POST, you can access Windows® 8 troubleshoot options which includes the following: ••• Refresh your PC Reset your PC Advanced options Refresh your PC Use Refresh your PC if you want to refresh your system without losing your current files and applications. To access this during POST: 1. 2.

3.

4. Restart your Notebook PC then press during POST. Wait for Windows® to load the Choose an option screen then tap Troubleshoot. Tap Refresh your PC. In the Refresh your PC screen, read the bullet points to learn more about using this option then tap Next.

Tap the account you would like to refresh. Type your account password then tap Continue. Tap Refresh. **IMPORTANT!** Ensure that your Notebook PC is plugged in to a power source before refreshing your system. 5. 6. 7. Notebook PC E-Manual 89 Reset your PC **IMPORTANT!** Back up all your data before performing this option. Use Reset your PC to restore your Notebook PC to its default settings. To access this during POST: 1.

Restart your Notebook PC then press POST. 2. 3. 4. Wait for Windows® to load the Choose an option screen then tap Troubleshoot. Tap Reset your PC. In the Reset your PC screen, read the bullet points to learn more about using this option then tap Next. Tap your preferred reset option: Just remove my files or Fully clean the drive. Tap Reset. **IMPORTANT!** Ensure that your Notebook PC is plugged in to a power source before resetting your system.

during 5. 6. 90 Notebook PC E-Manual Advanced options Use Advanced options to perform additional troubleshooting options in your Notebook PC. To access this during POST: 1. 2.

3. 4. 5. Restart your Notebook PC then press during POST. Wait for Windows® to load the Choose an option screen then tap Troubleshoot.

Tap Advanced options. In the Advanced options screen, select the troubleshooting option you wish to perform. Follow the succeeding steps to complete the process. Using System Image Recovery Under Advanced options, you can use System Image Recovery to recover your system using your Notebook PC's original image file. To access this during POST: 1. Restart your Notebook PC then press POST. during 2. 3. Wait for Windows® to load the Choose an option screen then tap Troubleshoot. Tap Advanced options.

Notebook PC E-Manual 91 4. 5. 6. 7. In the Advanced options screen, select System Image Recovery. Choose an account you would like to recover using a system image file. Type your account password then tap Continue. Select Use the latest available system image (recommended), then tap Next. You can also choose Select a system image if your system image is in an external device or DVD. Follow the succeeding steps to complete the system image recovery procedure.

NOTE: We strongly recommend that you regularly backup your system to prevent data loss in case your Notebook PC stops working. 8. 92 Notebook PC E-Manual Chapter 6: Upgrading your Notebook PC Notebook PC E-Manual 93 Installing a Random-access Memory module (on selected models) Upgrade the memory capacity of your Notebook PC by installing a RAM (random-access memory module) in the memory module compartment. The following steps show you how to install a RAM module into your Notebook PC: **WARNING!** Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before removing the compartment cover.

IMPORTANT! Visit an authorized service center or retailer for information on RAM module upgrades for your Notebook PC. Purchase RAM modules from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability. **NOTE:** The appearance of your Notebook PC's bottom side and RAM module may vary per model but the RAM module installation remains the same. 94 Notebook PC E-Manual A. B.

Loosen the screw of the Notebook PC's compartment cover. Pull out the compartment cover and remove it completely from your Notebook PC. Notebook PC E-Manual 95 C. D. Align and insert the RAM module into the RAM module slot. Push down the RAM module until it clicks in place 30o angle notches E. F. Align then push down the compartment cover back into place. Reattach and tighten the screw that you removed earlier. 96 Notebook PC E-Manual Replacing the Hard Disk Drive (on selected models) Refer to the following steps if you need to replace the HDD (hard disk drive) of your Notebook PC.

IMPORTANT! Purchase an HDD from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability. It is recommended that you replace the HDD under professional supervision. You may also visit an authorized service center for further assistance. **WARNING!** Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before removing the compartment cover. **NOTE:** The appearance of your Notebook PC's bottom side and HDD may vary per model but the HDD installation remains the same. Notebook PC E-Manual 97 A. B. Loosen the screw of the Notebook PC's compartment cover. Pull out the compartment cover and remove it completely from your Notebook PC.

98 Notebook PC E-Manual C. D. Remove the screws securing the HDD bay to the compartment. Disconnect the HDD bay from the HDD port then remove the HDD bay from the compartment. HDD bay Notebook PC E-Manual 99 E.

F. Turn the HDD bay upside down then remove the screws. Remove the old HDD from the HDD bay. HDD G. Place the new HDD with its PCB (printed circuit board) facing the HDD bay.

Ensure that the port connectors of your HDD are not obstructed by any part of the HDD bay. Reattach and secure the HDD with the screws you removed earlier. H. 100 Notebook PC E-Manual I. Replace the HDD bay back in the compartment, with the HDD connector aligned with the Notebook PC's HDD port. Push the HDD bay until it connects with the Notebook PC. Secure the HDD bay with the screws you removed earlier. J. HDD bay Notebook PC E-Manual 101 K. L.

Align then push down the compartment cover back into place. Reattach and tighten the screw that you removed earlier. 102 Notebook PC E-Manual Installing a new battery pack (on selected models) **WARNING!** Turn off your Notebook PC and disconnect all connected peripherals, any telephone or telecommunication lines and power connector, before removing the battery pack. **IMPORTANT!** Purchase battery packs from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability. **NOTE:** The following steps are also applicable for removing and replacing the battery pack of your Notebook PC. Notebook PC E-Manual 103 Refer to the following steps when installing a new battery pack for your Notebook PC. A. B. C. Move the manual battery lock to the unlocked position.



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Move and hold the spring battery lock to an unlocked position. Pull out the old battery pack from the battery slot then release your hold on the spring battery lock. 104 Notebook PC E-Manual D. E. F.

Move the manual battery lock to the unlocked position. Align and insert the new battery pack into the Notebook PC's battery slot. Move the manual battery lock back to the locked position after inserting the battery pack. Notebook PC E-Manual 105 106 Notebook PC E-Manual Appendices Notebook PC E-Manual 107 DVD-ROM Drive Information (on selected models) The DVD-ROM drive allows you to view and create your own CDs and DVDs. You can purchase an optional DVD viewer software to view DVD titles.

Regional Playback Information Playback of DVD movie titles involves decoding MPEG2 video, digital AC3 audio and decryption of CSS protected content. CSS (sometimes called copy guard) is the name given to the content protection scheme adopted by the motion picture industry to satisfy a need to protect against unlawful content duplication. Although the design rules imposed on CSS licensors are many, one rule that is most relevant is playback restrictions on regionalized content. In order to facilitate geographically staggered movie releases, DVD video titles are released for specific geographic regions as defined in "Region Definitions" below. Copyright laws require that all DVD movies be limited to a particular region (usually coded to the region at which it is sold). While DVD movie content may be released for multiple regions, CSS design rules require that any system capable of playing CSS encrypted content must only be capable of playing one region. IMPORTANT! The region setting may be changed up to five times using the viewer software, then it can only play DVD movies for the last region setting. Changing the region code after that will require factory resetting which is not covered by warranty. If resetting is desired, shipping and resetting costs will be at the expense of the user. 108 Notebook PC E-Manual Region Definitions Region 1 Canada, US, US Territories Region 2 Czech, Egypt, Finland, France, Germany, Gulf States, Hungary, Iceland, Iran, Iraq, Ireland, Italy, Japan, Netherlands, Norway, Poland, Portugal, Saudi Arabia, Scotland, South Africa, Spain, Sweden, Switzerland, Syria, Turkey, UK, Greece, Former Yugoslav Republics, Slovakia Region 3 Burma, Indonesia, South Korea, Malaysia, Philippines, Singapore, Taiwan, Thailand, Vietnam Region 4 Australia, Caribbean (Except US Territories), Central America, New Zealand, Pacific Islands, South America Region 5 CIS, India, Pakistan, Rest of Africa, Russia, North Korea Region 6 China Notebook PC E-Manual 109 Blu-ray ROM Drive Information (on selected models) The Blu-ray ROM Drive allows you to view high definition (HD) videos and other disc file formats such as DVDs and CDs.

Region Definitions Region A North, Central and South American countries, and their territories; Taiwan, Hong Kong, Macao, Japan, Korea (South and North), South East Asian countries and their territories. Region B European, African, and South West Asian countries and their territories; Australia and New Zealand. Region C Central, South Asian, Eastern European countries and their territories; China and Mongolia. NOTE: Refer to Blu-ray Disc website at www.blu-raydisc.com/en/Technical/FAQs/BlurayDiscforVideo.aspx for more details. Internal Modem Compliancy The Notebook PC with internal modem model complies with JATE (Japan), FCC (US, Canada, Korea, Taiwan), and CTR21. The internal modem has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems you should contact your equipment supplier in the first instance. 110 Notebook PC E-Manual Overview On 4th August 1998 the European Council Decision regarding the CTR 21 has been published in the Official Journal of the EC. The CTR 21 applies to all non voice terminal equipment with DTMF-dialling which is intended to be connected to the analogue PSTN (Public Switched Telephone Network). CTR 21 (Common Technical Regulation) for the attachment requirements for connection to the analogue public switched telephone networks of terminal equipment (excluding terminal equipment supporting the voice telephony justified case service) in which network addressing, if provided, is by means of dual tone multifrequency signalling.

Network Compatibility Declaration Statement to be made by the manufacturer to the Notified Body and the vendor: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have interworking difficulties." Statement to be made by the manufacturer to the user: "This declaration will indicate the networks with which the equipment is designed to work and any notified networks with which the equipment may have inter-working difficulties. The manufacturer shall also associate a statement to make it clear where network compatibility is dependent on physical and software switch settings. It will also advise the user to contact the vendor if it is desired to use the equipment on another network." Up to now the Notified Body of CETECOM issued several pan-European approvals using CTR 21. The results are Europe's first modems which do not require regulatory approvals in each individual European country.

Non-Voice Equipment Answering machines and loud-speaking telephones can be eligible as well as modems, fax machines, auto-dialers and alarm systems. Equipment in which the end-to-end quality of speech is controlled by regulations (e.g. handset telephones and in some countries also cordless telephones) is excluded. Notebook PC E-Manual 111 This table shows the countries currently under the CTR21 standard. Country Austria1 Belgium Czech Republic Denmark1 Finland France Germany Greece Hungary Iceland Ireland Italy Israel Lichtenstein Luxemburg The Netherlands1 Norway Poland Portugal Spain Sweden Switzerland United Kingdom Applied Yes Yes No Yes Yes Yes Yes Yes No Yes Yes Still Pending No Yes Yes Yes Yes No No No Yes Yes Yes More Testing No No Not Applicable Yes No No No No Not Applicable No No Still Pending No No No Yes No Not Applicable Not Applicable Not Applicable No No No 112 Notebook PC E-Manual This information was copied from CETECOM and is supplied without liability. For updates to this table, you may visit http://www.cetecom.de/technologies/ctr_21.html 1 National requirements will apply only if the equipment may use pulse dialling (manufacturers may state in the user guide that the equipment is only intended to support DTMF signalling, which would make any additional testing superfluous).



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In The Netherlands additional testing is required for series connection and caller ID facilities. Federal Communications Commission Interference Statement This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: •• This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: •• Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

Notebook PC E-Manual 113 •• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. WARNING! The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. (Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S.

Government Printing Office.) FCC Radio Frequency (RF) Exposure Caution Statement WARNING! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. "The manufacture declares that this device is limited to Channels 1 through 11 in the 2.4GHz frequency by specified firmware controlled in the USA." This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance. 114 Notebook PC E-Manual Declaration of Conformity (R&TTE directive 1999/5/EC) The following items were completed and are considered relevant and sufficient: •••••

- Essential requirements as in [Article 3] Protection requirements for health and safety as in [Article 3.1a] Testing for electric safety according to [EN 60950] Protection requirements for electromagnetic compatibility in [Article 3.1b] Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301 489-17] Effective use of the radio spectrum as in [Article 3.*

2] Radio test suites according to [EN 300 328-2] CE Marking CE marking for devices without wireless LAN/Bluetooth The shipped version of this device complies with the requirements of the EEC directives 2004/108/EC "Electromagnetic compatibility" and 2006/95/EC "Low voltage directive". CE marking for devices with wireless LAN/ Bluetooth This equipment complies with the requirements of Directive 1999/5/EC of the European Parliament and Commission from 9 March, 1999 governing Radio and Telecommunications Equipment and mutual recognition of conformity. Notebook PC E-Manual 115 IC Radiation Exposure Statement for Canada This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance. Operation is subject to the following two conditions: •• This device may not cause interference and This device must accept any interference, including interference that may cause undesired operation of the device. To prevent radio interference to the licensed service (i.e. co-channel Mobile Satellite systems) this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

This device complies with Industry Canada licence-exempt RSS standard(s). 116 Notebook PC E-Manual Déclaration d'Industrie Canada relative à l'exposition aux ondes radio Cet appareil est conforme aux limites d'exposition aux radiations d'Industrie Canada définies pour un environnement non-contrôlé. Pour maintenir la conformité avec les exigences d'exposition RF d'IC, veuillez éviter tout contact direct avec l'antenne pendant l'émission. Les utilisateurs finaux doivent suivre les instructions de fonctionnement spécifiques pour satisfaire la conformité aux expositions RF. Son utilisation est sujette aux deux conditions suivantes : •• Cet appareil ne peut pas causer d'interférence, et Cet appareil doit accepter toute interférence, y compris les interférences qui pourraient causer un fonctionnement non souhaité de l'appareil.

Pour éviter les interférences radio avec le service sous licence (c'est-à-dire le partage de canal avec les systèmes de téléphonie satellite), cet appareil est destiné à être utilisé en intérieur et loin des fenêtres pour fournir un blindage maximal. Tout appareil (ou son antenne d'émission) qui est installé en extérieur est sujet à cette licence. Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Notebook PC E-Manual 117 Wireless Operation Channel for Different Domains N. America Japan Europe ETSI 2.

412-2.462 GHz 2.412-2.484 GHz 2.412-2.472 GHz Ch01 through CH11 Ch01 through Ch14 Ch01 through Ch13 France Restricted Wireless Frequency Bands Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are: •• 10mW for the entire 2.



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