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The Samsung TV Smart menu allows you to reset the digital tuner, enable or disable hotel mode, and perform a total factory reset of your television among other functions.It is essential to take a photo of your current settings before making any changes through the service menu. This will enable you to restore your TV in case the changes you make do not work.The Samsung service menu explainedControlling, configuring, and diagnosing any smart TV can be an uphill task. However, any ordinary user can access the Samsung television service menu by pressing a specific sequence of buttons on the remote control.The service menu provides you with vast information about your television, including:The date of production, version, year of manufacture, and model of the televisionDigital tuner manufacturerWall mounting instructionsVersion port standardsThe menu also allows you to change the following settings on your Samsung TV:Managing sound and controlling signal levelsChanging the TV modeEnabling or disabling television modelsPerforming screen tests and calibrationSetting white balanceControlling color levelsSEE ALSO: Enable Samsung Smart TV Bluetooth via Secret MenuHow to access the Samsung Service Menu with a smart remotePress the Home Button on your Samsung smart remote to load the Home ScreenNavigate to the Settings option using the directional pad and click on itWait for the service menu to be displayed on your screenChoose the menu item you wish to change, set the right parameter, and press OK to save the changesThe service menu is always hidden by Samsung television manufacturers by default. Besides using the Home button, you may also press a certain combination of keys to access it.Different models of the Samsung television work using different key combinations. You can find the right combination for your model in your Samsung TV service menu guide.However, standard procedures are as follows:Turn your TV offPress the applicable keys on the remote control based on your model as follows:Combination 1: Info, menu, then power buttonCombination 2: Mute button then 1,8,2 then the power buttonCombination 3: Display, menu, mute then power buttonCombination 4: Display, P.STD, mute then power buttonThe television will turn on and the service menu will display on the top left side of the screenUse your smart remote to navigate the menu and make the necessary changesAccessing the Samsung TV service menu without a remoteImage: PinterestIf you want to get the service menu on a Samsung Smart TV without using a remote, this is how to go about it.On the back right side of your television, there is a small square-shaped button similar to a joystick. With the TV turned off, press the button to turn the television on. As the screen loads, the menu button will be displayed at the bottom of the screen. You can use the volume buttons on the side of your television to navigate through the menu and make the necessary changes.The second option is to turn the television on then press the "joystick" button while it is still loading to display the service menu.You can also download and install a remote app on your smartphone and use it to access the Samsung service menu code the same way you would with a smart remote.You can get a replacement remote from Amazon if you lost or damaged yours.Wrapping upThe most ideal way to access the service menu on your Samsung television is by using a smart remote.With a remote, you can easily configure the settings of your television for optimal performance. Accessing the menu without a remote is achievable but may take time.SEE ALSO: Amazon Prime Video is not working on Samsung TV? The fixWhichever method you decide to use depends on your preferred mode of access and one that seems to work best for you. Always refer to your Samsung TV service menu guide to ensure that your method of choice suits your TV model.Related Samsung Smart TVs offer a wide range of settings and options that can enhance your viewing experience. However, there is a secret menu called the Samsung Service Menu that provides even more advanced settings and controls. In this article, we'll guide you on how to access this hidden menu and explore its features. 1. Ensure your TV is powered on and set to the TV input.2. Press the Mute button on your remote control.3. Press the Volume Up button.4. Press the Channel Up button.5. Press the Mute button again.6. In the top left corner of the screen, you'll see a small menu pop up. This is the Samsung Service Menu. 1. Power on your TV and set it to the TV input.2. Press the Menu button on your remote control.3. Navigate to the Support option using the arrow keys.4. Press the Enter button to select Support.5. Scroll down and select Self Diagnosis.6. Press the Enter button again.7. Scroll down to Reset.8. Press the Enter button once more.9. A warning message will appear. Press Enter to confirm.10. The Samsung Service Menu will now be accessible. Once you've successfully accessed the Samsung Service Menu, you'll find a range of advanced settings and options. Here are some of the key features you can explore: 1. Control Debug: This option allows you to control and debug various aspects of your TV's performance. You can adjust settings related to image quality, sound, and network connectivity. 2. ABC/WB: This menu provides access to additional settings related to picture quality, including color balance, sharpness, and motion settings. 3. Advanced Menu: This menu offers even more advanced settings for fine-tuning your TV's performance. You can adjust options related to video processing, audio output, and input sources. 4. Service Mode: This mode is specifically designed for technicians and advanced users. It provides access to detailed information about your TV's hardware and software components. Remember to exercise caution while exploring the Samsung Service Menu, as making incorrect changes can potentially affect your TV's performance. If you're unsure about any settings, it's best to leave them at their default values or seek professional assistance. See also How to Use Roku TV Without Remote And Wifi?The Samsung Service Menu is a hidden treasure trove of advanced settings and controls that can enhance your viewing experience. By following the steps outlined in this guide, you'll be able to access this menu and explore its features. Just remember to proceed with caution and only make changes if you're confident in their impact. Happy tinkering! To access the hidden menu on a Samsung TV, follow these steps: 1. Turn on your Samsung TV and make sure it is connected to a stable internet connection.2. On your TV remote, press the "Menu" button to open the main menu.3. Navigate to "Settings" and select it using the center button on the remote.4. Scroll down and select "Support" or "Support & Contact" from the menu options.5. Next, scroll down and select "Self Diagnosis" or "About This TV."6. Now, press the following buttons on your remote in quick succession: "Mute," "1," "8," "2," and "Power." This combination will bring up the hidden menu on your Samsung TV.7. On the hidden menu, you can navigate using the up and down arrow keys on your remote. To select an option, press the center button.8. Within the hidden menu, you will find various advanced settings and options that are not accessible through the regular menu. Please note that accessing the hidden menu on your Samsung TV should be done with caution, as making changes to certain settings without proper knowledge can affect the TV's performance. It is recommended to consult the user manual or seek assistance from Samsung support before making any changes in the hidden menu. To access the Samsung Smart TV service menu using the Smart Remote, follow these steps: 1. Make sure your TV is turned on and the Smart Remote is paired with it.2. Press the Home button on the Smart Remote to open the Home menu.3. Using the navigation buttons on the remote, scroll to and select "Settings."4. In the Settings menu, scroll down and select "Support."5. In the Support menu, scroll down and select "Self Diagnosis."6. Now, press the following sequence of buttons on the Smart Remote: Mute, Volume Up, Channel Up, Mute.7. After pressing this sequence, the service menu should appear on the screen. See also What to Do When Your Cash App Account Number is Not Showing?Please note that accessing the service menu should be done with caution as it contains advanced settings that can impact the functioning of your TV. It is recommended to only make changes if you are familiar with the settings and know what you are doing. Additionally, here are some important points to keep in mind: - Ensure that the TV is set to the TV source before accessing the service menu.- The service menu provides access to various settings, including picture and sound adjustments, but it is important to be cautious while making any changes.- If you are unsure about any settings or changes in the service menu, it is best to consult the user manual or contact Samsung support for assistance. Remember to always exercise caution when accessing and making changes in the service menu to avoid any potential issues or damage to your TV. To access the menu settings on your Samsung TV, follow these steps: 1. Start from the Home screen of your TV.2. Press the left arrow button on your TV remote to navigate to the left side of the screen.3. From there, you will see various options and icons. Look for the "Settings" icon.4. Once you have located the Settings icon, select it by pressing the OK or Enter button on your remote.5. This will open the Settings menu. However, if you see multiple tabs or categories within the Settings menu, you may need to navigate to the "All Settings" option.6. Use the arrow buttons on your remote to scroll through the different settings options.7. Once you have found the desired option, select it by pressing the OK or Enter button on your remote.8. Adjust the settings based on your preferences using the arrow buttons or numerical keypad on your remote.9. Repeat the process to access and adjust any other settings you wish to modify. See also How to Delete Apple TV from Your MacRemember, the specific options and layout of the menu may vary depending on the model and firmware version of your Samsung TV. Accessing the Samsung service menu provides users with advanced control and debugging options for their Samsung Smart TVs. There are two methods to access the service menu: through the remote control or through the hidden secret menu. To access the service menu using the remote control, ensure that the TV is set to the TV loudspeaker. Then, press the mute button followed by the up, down, okay, and mute buttons again. This will bring up the service menu in the left corner of the screen. Alternatively, the hidden secret menu can be accessed by using the remote control as well. Press the up and down arrow keys to navigate through the options, and press the center button for selection. This menu provides additional advanced settings and options for users to customize their Samsung Smart TV experience. Once in the service menu, users can adjust various settings and options to their preference. These settings include picture settings, sound settings, input settings, and more. The service menu allows for more precise control and fine-tuning of the TV's performance. The Samsung service menu is a valuable tool for users who want to have more control over their Smart TV settings. It provides access to advanced options and allows for customization to enhance the viewing experience. However, it is important to exercise caution while making changes in the service menu, as incorrect settings can potentially affect the TV's performance. This article may contain affiliate links (disclosure policy). The best and the easiest way to access your Samsung TV Service menu is through a smart remote control. This allows you to effortlessly configure your TV settings for finest results and better performance. But what if you have to access the menu manually? Well, of course you can operate your Samsung TV service menu without remote control; although it is a little bit complex task and require an understanding about a few things as covered in this blog article. The Samsung TV Smart work menu, which is set to be hidden by default from the manufacturer, allows you to reset the digital tuner, enable or disable various modes, perform a total factory reset as well as further functions. The service menu on Samsung TV provides you with a hell lot of information about your television set, such as: Date and year of manufacturingModel and version detailsTV port standardsWall mounting instructions In addition to that the menu also allows you to make changes in the following settings on your TV: Changing the TV modeControlling contrast levelManaging sound levelsNavigating through channelsAnd much more..... Any user of the Samsung TV can access service menu by pressing a specific set of buttons on the remote control. All new age Samsung TVs come with a TV control button for the purpose of turning the TV on, changing the volume as well as the source input. Apart from that the majority of TV models allow users to access the Smart Hub, Menu and Settings using a remote control. Even though you can also operate your Samsung TV without remote, you will get slightly less functionalities. In this article, we will cover the alternatives to access service menu without remote on your Samsung TV. So here we go...... The first and foremost thing which you need to understand before starting to operate TV without using a remote is the location of the control button and other functions. It usually varies subject to the Samsung smart TV model you own. The three main places wherein you can locate and find the TV Control button are given under. On the back of the TV: The most common place of the TV Controller is at the back of the TV. Long-pressing the button at center will turn on the Samsung TV without a remote. Usually the control stick provided at the lower left corner toggles up and down plus side to side. If you press on the middle button, the menu options will show up on your TV screen, and then you can navigate through the options using arrow buttons. Under the Front Panel in the center: Sometimes, in a few models you will find that the TV Controller button is located on the front in the middle of the panel. The control stick comprise of about five buttons. Long pressing the center button will turn on the TV. And rest of the functionalities is shown in the image below. Under the Front Panel at the right side: Besides the above mentioned locations, some other TV models have their controller located at the bottom of the front panel, towards the right-hand side. A single press on the button will bring up the menu. Thereafter, single pressing on the button will help you navigate through the menu, while long pressing the center button will let you to make selection. Note: It is always suggested that you must read the user manual for your Samsung TV. Now having understood the above points, here's how to get the service menu on a Samsung Smart TV without using a remote: Power on the TV using the power button, while pressing the home button showing up at the bottom of the screen. You can now take the advantage of the buttons to move across the menu and make appropriate selections. Alternatively, you can just get a remote app downloaded on your smartphone and try to access the Service Menu via this app. It will function almost the same way as that of a smart remote. If you have a smart remote available with you, here's how to access the Samsung service menu via smart remote: Press the Home Button on your remote and let the Home Screen to loadMove to the Settings option using the directional keyboard and click on itWait until the service menu shows up on your screenNow choose option from the menu that you would like to make a change to, mark the correction, and save the changes by pressing OK. Note: Besides using the Home button, there are certain combinations of keys to access the service menu. As per Samsung TV service menu guide look the right combination for your model. However, standard combinations are as follows: Combination 1: Info, menu, then power buttonCombination 2: Mute button then 1,8,2 then the power buttonCombination 3: Display, menu, mute then power buttonCombination 4: Display, P.STD, mute then power buttonThe straight forward way to access the service menu on your Samsung television is by using a smart remote. However you can also configure the settings on your Samsung TV service menu without remote. The task is pretty feasible but need a thorough understanding of points covered above in this blog article. Read Also: Resolving Unable to connect to Samsung Server Error: Easy Methods How To Fix Amazon Video Not Working on Samsung TV error? Did you know there is a secret menu on Samsung TV with features and advanced settings? Unlocking this secret menu can give you greater control over your TV's picture quality, perform software updates, and access service modes. Let's guide you on accessing the secret menu or service menu on a Samsung TV and provide some insights on what you need to know. The secret menu or service menu on a Samsung TV is a powerful tool that offers advanced settings beyond what's available in the regular user interface. Although these menus are mainly for technicians and manufacturers, they can be a valuable tool for tech-savvy individuals. However, it's crucial to exercise caution when dealing with it. Tampering with the secret menu can lead to unintended consequences such as misconfiguration. This will prevent your TV from functioning properly and could be worse if you don't know how to reverse the settings you've changed. Unlike the regular menu it can be accessed by pressing the home button on your remote, the secret menu can only be accessed when you press certain buttons on your remote in a specific sequence. Also, it would help to have a standard remote control for this function rather than a smart remote. Here is how to access the Samsung TV secret service menu 1. Connect your TV to the socket. 2. Press the Power button on the TV to turn it off 3. On your regular remote controller, press these key combinations: Info+Menu+Mute=Power As soon press these keys, your TV will turn on and open the Secret Service Menu. Note that the key combinations may vary depending on the model of your Samsung TV. The one above is the most common combination that usually works. However, we have provided a list of other combinations in case that one doesn't work. Hopefully, one of them works for you. Display + P.STD + Mute + Power Display + Menu + Mute + Power Display + Menu + Mute + Power Mute + 1 + 1 + 9 With the service menu on Samsung TV, there are a lot of possibilities because it offers a range of advanced options and configurations. Mainly, the advanced menu is there to help television engineers or technicians troubleshoot, debug or test the TV. Here are some specific things you can do on the service menu: You can find various diagnostic tools that can assist in troubleshooting issues with your TV's hidden menu. There are options to test individual hardware components and perform system checks. You may also want to check your Samsung TV internet speed. Some Samsung TVs have hidden features that are not accessible through the regular menu, but with the secret menu, you can access them and improve your TV's performance. One of the secret menu's most common uses is resetting factory settings. When your TV experiences persistent issues or misconfigurations, the service menu often offers a factory reset option. You may want to reset to factory defaults if you experience a blurry picture on your Samsung TV that will not work. This can revert your TV to its original settings, resolving software-related issues. The options on the service menu are numerous and overwhelming, so you must be careful with them. There is specific info that you can get on the service menu When your TV encounters errors or malfunctions, the service menu may record error logs or provide specific error codes. These codes can help you or your technician diagnose and resolve problems efficiently by pinpointing the underlying cause. You can also find details about your TV's display panel on the service menu, such as its resolution, refresh rate, and panel type If you are wondering about the display resolution or how to change it on Samsung TV, then the service menu is loading you will find the menu button showing up at the bottom of the screen. You can move across the menu and make appropriate selections. Alternatively, you can just get a remote app downloaded on your smartphone and try to access the Service Menu via this app. It will function almost the same way as that of a smart remote. If you have a smart remote available with you, here's how to access the Samsung service menu via smart remote: Press the Home Button on your remote and let the Home Screen to loadMove to the Settings option using the directional keyboard and click on itWait until the service menu shows up on your screenNow choose option from the menu that you would like to make a change to, mark the correction, and save the changes by pressing OK. Note: Besides using the Home button, there are certain combinations of keys to access the service menu. As per Samsung TV service menu guide look the right combination for your model. However, standard combinations are as follows: Combination 1: Info, menu, then power buttonCombination 2: Mute button then 1,8,2 then the power buttonCombination 3: Display, menu, mute then power buttonCombination 4: Display, P.STD, mute then power buttonThe straight forward way to access the service menu on your Samsung television is by using a smart remote. However you can also configure the settings on your Samsung TV service menu without remote. It will give you immediate access to the hidden menu. We would recommend that you take photos of each of the menus before changing any of the items within the service menu - it is very easy to change a setting in the service menu and render your Samsung TV completely useless. In order to be able to access the service menu, you will need to have a Samsung Basic/Full Remote rather than the Samsung Smart remote which comes with some UHD TVs. If the smart remote is not working then head to our Smart Remote Repair page for instructions on how to restore functionality. Once you are in the menu there are a lot of abbreviations in use - if you need help understanding the menu head to our Samsung Service Menu Options Explanation page. If you need to delete some of the default applications to free up space you can find that guide here. Method 1 This method works on almost all current (2010 onwards) Samsung LCD sets, including HD and UHD versions. Put the TV into standby mode. On the remote, press {Info} {Menu} {Mute} {Power} in sequence. If successful the TV will turn on and the service menu will now display. Method 2 Put the TV into standby mode. On the remote, press {Mute} followed by the Up, Down, and OK buttons.This action will display a small menu in the upper left corner of the screen where you can change settings that affect the user's interaction with the TV. Although this menu offers limited settings, they are essential for improving the user experience.You can then change the available settings, for example, you can set which signal source will be activated when you turn on the TV, you can limit the volume level of the TV. You should know that Samsung smart TVs and monitors running the Tizen operating system are accessed by a special algorithm. Any Samsung Smart TV from 2011 onwards has two menus for controlling the TV: Standard menu: invoked by pressing the Home button on the remote control and accesses the TV settings.Engineering (hidden) menu: it is called up by pressing certain buttons on the standard remote control, there is also a special remote control (engineering remote control) for service technicians. In this menu you can control the TV more flexibly, turn on or off certain modules of the TV, run built-in test programs. How to access the TV's service menu To access the hidden menu, you must have a standard remote control for your TV (the picture of a standard remote control is shown below). The standard remote control has more buttons and controls the TV using infrared signals. You have to press a specific combination of buttons to access the menu, but the Smart remote (One remote) does not have the necessary buttons. With the Smart remote, you can only access the image settings, which are a small part of the engineering menu, and I'll tell you how to do it, too. The way to access the service menu is to use a universal or specialized engineering remote. If you read that you can access the service menu using the power button (control on the TV body) or the virtual remote (on your smartphone), it's not true: you can't access the service menu that way. Warning: Use the service menu with caution. Incorrect use may cause damage to the TV. By entering the service menu, you assume full responsibility for operating the TV at your own risk. Samsung TV, service menu access codes Entering the service menu, general rules: You may not be able to enter the service menu the first time. Try several times. The algorithm of pressing the buttons is strictly regulated to prevent accidental entry into the menu. The buttons must be pressed once, and the time between presses is also important. To enter the service menu, the buttons must be pressed once, slowly and briefly. Violation of the pressing algorithm will not start the service menu. If the algorithm of pressing the buttons is correct, after starting the TV, the status LED (if any) will continue to flash, which means that the TV is loading the service menu program. After 1-5 seconds, the service menu will appear on the TV screen. If the power LED remains lit and something has been done incorrectly and the procedure for entering the service menu must be repeated. Depending on the manufacturer of the TV motherboard, software modification and region, there are several ways to enter the service menu. Engineering TV. For example, option number one is suitable for TVs manufactured in Europe, and option number two - for TVs manufactured in the United States, Canada and Mexico. All manipulations to enter the engineering menu must be performed with the TV switched off (in standby mode). To exit the service menu (turn off the TV), press the power button. List of commands to access the Samsung TV hidden menu A small reminder, the TV must be plugged in and in standby mode. You must have a universal remote control with buttons 0-9. If you don't have one, buy a remote for TVs from 2011 and newer. These buttons are by one in normal mode, making sure to point the remote at the TV.Each of the possible combinations ends with a press of the power button. Simply put, the first three buttons form the command to call the service menu after the TV is turned on.There are six ways to access the service menu, so try them all in order. Method 1: INFO → MENU → MUTE → POWER - usually works for European models of Samsung TVs and also works with some LED TVs in the US. Method 2: MUTE → 1 → 8 → 2 → POWER - suitable for TVs in the USA. Method 3: DISPLAY → P.STD → MUTE → POWER. Method 4: SLEEP → P.STD → MUTE → POWER. Method 5: DISPLAY → MENU → MUTE → POWER. Method 6: MUTE → 1 → 1 → 9 → POWER. When you change the TV settings, the new settings are applied immediately and do not require additional confirmation. Use the cursor keys on the remote control to move between menu items and change settings. To enter a specific menu, press the Enter button. To exit a menu item, press the Return button. To exit the Service Menu, turn off the TV. Short service menu accessed using the Smart remote control In the service menu of Samsung TVs, there is a section called "Main Menu". This menu is accessed using the Smart remote control. You will not have access to the entire engineering menu of the TV, but only the main settings. Changing these settings won't break the TV, but these settings can't be reset via a standard TV restart. If you choose to tinker with these settings, you will have access to the following service menu items: Hospitality Mode - turning this menu on or off allows you to activate other features of this menu, such as the default HDMI input setting. "Power On" - controls settings when the TV is turned on, such as showing the last channel or connecting a specific HDMI input. "Display Menu" - displays information on the TV screen. "Menu OSD" - controls the sound. "External Source" - control interaction with external sources. "Eco Solution" - saves power. "Cloning" - record and transfer settings to another TV. To enter this menu, turn on the TV, press up → down → ok on the control wheel to open the TV menu. Service Menu Manual (Quick Guide) When you enter the Service Menu on the first screen, you will see the main parameters of the TV. On the left is the menu and on the right is basic information about the TV. Let's look at an example of what information you can get from the first screen. T-PIMACUS-1098 are the board numbers inside the TV, the picture shows the secret menu of S95B TV. Samsung OLED TV has three boards (power board, main board and display control board). TIZEN- TRUNK2022-PontusM-HOTFIX-RELEASE_20220325.1: this is the operating system version, it is Tizen 6.5, OS working name TRUNK2022-PontusM-HOTFIX, this OS version was released on 03/25/2022 current modification 1. BT version: this is the Bluetooth version, if the firmware has a Bluetooth module. E – Manual: OSNATSCB-3.2.0 is the version of the electronic manual in the TV. E-POP version: This is the version of the in-store demo program used to promote the TV. EDID (Extended Display Identification Data): Automatic transfer of display information is used when you connect the TV as a monitor. HDCP: whether the encoding of transmitted via HDMI works. Option 55a4ouqob: The part number of the TV. FRC: 120Hz display frequency. DIMMING: What kind of dimming system is used. Then there is information about components, WiFi module number, Mac addresses, and so on. But probably the most interesting information is the model number of the TV. Model: QN55S95BAFXZA Factory reset in production: Number of resets through the service menu. Date of purchase: The information was obtained when you connected the TV to Samsung servers after checking the model and serial number of the TV against databases. You may have logged into your Samsung account from the TV or registered the TV on the Samsung website. The date when the TV was registered, or you logged in to your Samsung account from the TV appears in this field. If you have not done so, then there will be dashes. If you have an LED or QLED TV, the short menu will have information about the display model, as your TV may have displays from different manufacturers. In case you didn't know, Samsung doesn't make QLED or LED displays as of 2021. If you poke around in the menu, you can find a lot more; here's a short list of available information about the TV from the service menu. Date of purchase TV model The version of your TV: This information is needed for repairs; you will be able to determine the manufacturer of the components used to assemble the TV base model Digital tuner manufacturer Wall mount Format, precisely size, e.g., Vesa 200x200 Wi-Fi region How long the display has been on (the time the TV has been on in hours since it was first turned on) Year of development of the original version of the TV HDMI port standards and HDCP support Testing the TV using the Service Menu You can use the Service Menu to change the TV's settings and modes and to test the TV's components. This is necessary for technicians to diagnose the TV. You can turn the sound amplifier on or off and change the output power level, as one TV may have 40 watts output power and another model may have 60 watts and more speakers, for example a TV with 60 watts output power has 4 speakers plus a subwoofer, naturally you need a different sound processing mode. You can switch the TV to hotel mode, shop mode, etc. Turn on/off different TV modules Disabling the FRC screen mode is used in TVs with 8-bit screens to increase color tones. Perform a screen check using the operating system's test tables. The TV will pass the test to check for broken pixels and correct display of geometric shapes. Various images will be displayed, allowing you to check the quality of the display visually. Screen calibration, for OLED displays, to equalize pixel brightness during operation. Adjust the white balance Check the level of the TV's primary colors. When you start the screen calibration and screen cleaning for OLED TVs to remove residual images. Screen calibration, for OLED displays, to equalize pixel brightness for professionals. If you select the wrong settings, the TV will not turn on. This usually looks like the following. The TV constantly reboots. When you turn it on, the Samsung or OLED QLED logo appears (depending on the OS settings) and then a black screen. The power indicator blinks a few times, and that's it. I will explain why this is happening. The problem is that the TV doesn't have a bios analog with saved boot commands. There is no safe mode in the OS and no way to reboot the OS. The OS is written to chips at the factory and then soldered to the motherboard. When settings are changed (service menu operation) they are overwritten on the chip, and if you write the wrong parameter to the OS, a critical error will occur; For example, you have a TV set for the USA and the tuner is set to the European standard – DVB. Nothing will happen immediately; you will continue to navigate through the menu. If you turn off the TV and turn it on again, all of this would be necessary drivers to process the digital signal. But there are no such drivers on the TV; the OS has reached a dead end and hangs. Engineering (hidden) menu vs Samsung Smart TV user menu A modern TV set is a rather complex device. In order to operate it, set up, diagnose and repair it, for example, to replace the display or motherboard, it is necessary to control the TV at the level of primary commands. For the average user, access to the standard menu is sufficient. The two menus interact with each other, the custom menu allows you to change non-critical parameters that can be reset by returning the TV to factory settings. Samsung TV hidden (service) menu This is the menu for configuring the operating system boot. In this menu you set such TV parameters as the size and type of the display, set the voltage supplied to the backlight (the larger the screen, the higher the voltage on the LED backlight lines, control the on/off switching of modules, control the output power of the audio amplifier, and much more. A particular line of TVs uses its own OS modification, so the appearance and number of settings may differ. There is one operating system, and it is modified for a particular line, such as QLED or OLED TVs. The operating system is the same for all TVs, but the settings differ depending on the TV series. And knowing how to change the settings, you can, for example, turn a 7-series TV into an 8-series TV or enable known closed functions. For example, the service menu turns off support for intelligent remote control or the ability to connect bluetooth headphones. How to use the Service Menu This is very important! Incorrect use of the settings menu may cause the TV to malfunction: it will simply not be able to load the OS and start working. Therefore, only change settings if you know their purpose. For example, if you set the wrong display type, the picture may be upside down.And if you set the settings to a smaller screen size, for example, you have a 50-inch TV and you set the screen size to 65 inches, the screen will overheat and settings will appear on it after a while, and if you set the wrong image processing algorithm, the TV screen will turn green. Please take a screenshot or write down your settings menu, so that you can restore the correct settings later. User menu on Samsung TV This is a second-level menu; nothing can be disturbed in it; it is accessible to the normal user. This menu appears when you press the Menu or Home button on the TV remote control and then select Settings. Only 10-20% of the TV's settings are available in this menu, and service commands are usually unavailable. The manufacturer believes that this is sufficient for using the TV. In this menu you can control picture and volume settings, launch applications and diagnostic tools, and generally use the TV to its heeds. Image: Proxima StudioShutterstock.com On many modern televisions, there's actually a secret menu that's accessible using a cryptic button combination. The so-called service menu grants access to hidden device settings that allow you to customize your TV as if you were a system technician. It goes beyond mere picture and sound, with diagnostic tools and special developer options.The hidden service menus in TVs may look slightly different from manufacturer to manufacturer, but they usually offer the same sorts of adjustments and settings:Update: Update the device's firmware.Calibration: Make precise and wide-ranging adjustments to screen settings, including color temperature and white balance.Display settings: Change sharpness and screen resolution.Audio settings: Manipulate the time offset between the picture and sound track (audio latency) or adjust the equalizer.Diagnostic tools: Run diagnostic programs or perform self-tests to detect faults with the speakers, connections, or display.Tuner settings: Make in-depth system settings on the TV tuner by manipulating signal amplification, adjusting search parameters, or making tweaks to frequency bands.Network settings: Set LAN and Wi-Fi connections, change the network configuration, or perform network diagnostics.Energy options: Tweak energy consumption settings during operation and standby mode behavior.Device settings: Reset to factory settings or lock certain features.Developer options: These settings are usually of little importance to end users. Developers may find these settings useful to test various features.The service menu isn't without risk. If you mess something up, you could theoretically cause permanent damage or even brick the device altogether, rendering it unusable. In other words, you should only change settings in the service menu that you understand. Don't tweak it willy-nilly. In fact, before you do anything, you should read up all the default settings so you can revert to normal operation in case something goes wrong.Each TV manufacturer hides their service menu behind their own unique access code. Not all models from the same brand may have service menus that are accessible in the same way, either.Sometimes you have to switch off the TV beforehand. Other times you have to hammer a certain button sequence into the remote control. Or maybe you just have to hold several buttons at once. Depending on your TV, the procedure will differ.We've compiled the most common service menu access procedures for the major TV brands below: If you're unable to access your TV's service menu, you can consult the manufacturer's support service and ask for the appropriate button combination. Make sure you state your TV model.Example LG TV: 48-inch display, 4K resolution, 120Hz refresh rate, and Nvidia G-Sync as well as AMD FreeSync. This LG TV is really good (and also available at sizes up to 83 inches).LGSwitch on the TV.Press the Menu or Settings button on your remote control.Press the following buttons in quick succession: 1-1-0-5. On some models, the combination might instead be: 1-1-1-1.Confirm the entry (OK or Enter).If this is unsuccessful, you can also try a simultaneous hold of these two buttons: On/Off and Enter/OK.The service menu should now open.Example Panasonic TV: 32-inch display, 1080p resolution, with HDR. This Panasonic TV offers a lot for its small price tag.Panasonic Switch on the TV.Press and hold the Volume Down button on the TV.Tap the combination 0-0-0 quickly on the remote control.The service menu should now open.Example TV: This one delivers a beautiful picture with its 65-inch display, 4K resolution, and 120Hz refresh rate.Philips Switch off the TV.Press and hold the Volume Down button on the TV and press the On/Off button on the remote control.The TV should switch on with the service menu.Example Samsung TV: This 4K QLED smart TV is available in 55, 65, 75, or 85 inches. It has a 120Hz refresh rate and can reproduce moving images smoothly.Samsung Switch off the TV.Press and hold the Info button, Menu, and Power.Press the buttons in quick succession: Mute, 1, 1, 9, Power.Once you have entered these codes, your TV will turn on. You will know if it works because the LED on the bottom of the TV will start to blink before the set starts. The code you have to use depends on what each setting can do so you don't cause problems for your TV or brick it.Example Sony TV: This is an inexpensive smart TV with good noise suppression. It has a 720p resolution, 60Hz refresh rate, and voice control.SonySwitch on the TV.Press the following buttons on the remote control in quick succession: Display, 5, Volume Up, and On/Off.The TV should switch off, then back on with the service menu. This article originally appeared on our sister publication PC-WELT and was translated and localized from German. The service menu is a helpful feature that allows you to access many essential troubleshooting options on your TV. The service menu gives you control of many settings that you can't access any other way. It lets you make some major changes to your set. Due to how much trouble you can cause on the service menu, you must know how to access it. The extra steps ensure you don't accidentally make permanent changes to your TV. You have to understand what each setting can do so you don't cause problems for your TV. The user menu is where you go to control the main options on your TV. You can change basic settings like the picture, sound, broadcasting, network, and support. These are all things you can switch without converting the operation of your TV. To give you an idea of how limited user menu settings are, they account for about 10% of the options you can adjust on your TV. The service menu is a lot more in-depth. You can change your operating system, frame rate, TV colors, and TV operations. Correctly changing these can help fix problems and improve the quality of your TV experience. If you do the wrong thing, you can create an issue that can cause your TV to stop working. You access your TV service menu in a few different ways. Each one of the options requires a standard Samsung remote, the one with all the buttons. Smart remotes with mouse pads or keyboards won't work. Unfortunately, this doesn't help if your Samsung remote isn't working correctly. You should turn the TV off to access the service menu so it is in standby mode. You will still see the red light at the bottom of your TV. Then there are six different combinations of buttons you can use to turn on the service menu: Press in order: Info, Menu, Mute, Power Press in order: 1, 8, 2, and Power Press in order: Display, P.STD, Mute, Power Press in order: Sleep, P.STD, Mute, Power Press in order: Display, Menu, Mute, Power Press in order: Mute, 1, 1, 9, Power Once you have entered these codes, your TV will turn on. You will know if it works because the LED on the bottom of the TV will start to blink before the set starts. The code you have to use depends on the model and region of your TV. Try a few of these patterns to access your service menu. Turning on the menu can be challenging. You should try to match the pattern as smoothly as possible. Turning off the TV will take you out of the service menu when finished. The Samsung TV service menu offers many unique options that you can use to make significant changes to your TV. Some of these options may seem like the user menu, but they make more drastic changes to your system. Many of these settings include graphs and information about how your TV is running. You can sometimes use this data to determine problems your TV has so that you can make other changes that can fix your TV. One of the first things you'll find in the service menu is information about your TV. You can see the exact date the factory built the TV. You can also get the model, tuner manufacturer, WiFi region, how long the screen has been on, port standards, and most importantly, the TV version. There will also be a lot of other diagnostic info that a trained tech can use to troubleshoot the TV is working and if there are any problems you can fix with a few changes. When repairing the set, the TV version will indicate what replacement parts you need. This info lets you get the exact pieces to make fixing problems easier. The service menu volume control gives you more options than the user menu. You can test channels in this menu, change specific speaker levels, and mute individual speakers on this screen. This can help troubleshoot problems with your TV's internal speakers. You can turn down bad ones and find out which ones sound damaged. You can use the mode your TV enters when you turn it on. You can pick a few different methods, including hotel, store demo, and game demo. Each option gives you a lot of control over the service menu and limits changes other users can make. For example, in hotel mode, you can limit the max volume of the TV so it won't annoy other rooms. In-store mode, the TV cycles through incredible scenes to show off the capabilities of the TV without playing specific inputs. You can change the frame rate of the TV with these settings. Frame rate helps show off specific colors, which is terrific when it works correctly. However, if problems occur, the frame rate can cause a flicker on the TV. Being able to control this might help give a flickering tv a little extra life, or it can help you dial in color variations so they look better for you. Speaking of color, you can access the primary color control of the TV. From here, you can add or remove colors you have trouble seeing. These options work great for someone with certain color blindness, and they might allow you to set up the TV's function. Even if you only understand some basic TV concepts, these may help you determine what is wrong with your set. Changing the white balance will help make certain colors appear more, especially when watching specific events. It is another option that lets you dial in the colors you see on your TV to have the best experience when watching. Some people spend a lot of money to get their TV calibrated professionally, and that may be a path you need to take. Still, if you want to attempt it yourself, you can do so in the service menu. This feature lets you change many options on your screen to give you a more personalized experience. Here you can change things like zoom, color warmth, and many other settings to help make your TV look better. Samsung also has a new calibration app to simplify the calibration process. If you make a minor error or are unhappy with a change and didn't write down the original setting, don't fret. In most cases, you can reset your factory settings. Click on the link for a tutorial to walk you through the process. You want to know what you are doing when you use the Samsung TV service menu. You can change some things that can make your TV unstable, and you won't be able to turn it on if you make the wrong choices. For some mistakes, you can go back in and reverse the settings. Click on the link for a tutorial on resetting the service menu. Returning to the original settings will often fix the problem with your TV. Common mistakes after using the service menu are the TV shutting off quickly after you turn it on. You can also see the TV start to power up. The logo may stay on or immediately turn off before you see anything else on the screen. You may even see the LED start blinking, but nothing happens. The worst part about these problems is you won't be able to go back into the menu and change the settings. You will have to use even more invasive means to fix these problems. If you cannot turn on the TV after using the service menu, you will have to work on the TV and restart the whole system manually. This is much more involved than a regular factory reset. To do this, you will need lots of tools and a ton of working knowledge about TVs and circuit boards. Novice DIYers should not try this. Even after you reset it, you have to reload the operating system for your tv, which is another complicated and challenging process. If you have this problem, you may need to get a professional involved. If you want to try it alone, you can find tutorials on Youtube.