

CRT (cathode ray tube) are found on older televisions, monitors, and other equipment. Inside of CRT television with basic components labelled. CRT displays contain extremely high voltage (up to 30,000v!) and the acts as a capacitor which can store a lethal charge for weeks after the display has been unplugged. The tube MUST be discharged properly before performing any kind of internal repairs. Here is a good guide to refer to for discharging CRTs: CRTs also contain mains voltage so general electrical safety precautions should be taken when working on them. Due to the facts that most CRTs come from a time when repair was more common and companies didn't claim it was a security risk to have someone replace a failed capacitor, complete service manuals that included full schematics were often given out to independent repair shops, in the cases of older televisions they may have even been included full schematics are now available online, simply look up the model of your TV/monitor and look for a service manual. Descriptions and service manuals for Commodore monitors can be found here: Commodore monitors can be found here: Commodore monitors are fully separated. NOTE: Most picture adjustments should only be done after it has been confirmed that there are no faulty components on the board and those that are faulty have been replaced. WARNING: For most of these adjustments to be effective, they must be performed while the CRT is turned on, make sure that you are isolated from ground and are using a nonconductive screwdriver to make adjustments. Stay clear of the neck board, anode cap, and exposed flyback circuitry whenever possible! Over time, CRTs can go out of focus, misconverge, dim, or develop geometry issues; here is a very basic guide to troubleshooting and fixing such issues: To start you are going to want a good testing image or program that can display images onto the CRT screen to aid you in adjusting focus, misconverge, dim, or develop geometry issues; here is a very basic guide to troubleshooting and fixing such issues: generator is a program that will run on Windows and Linux (using Wine) and will generate test images onto your monitors for convergence, geometry, focus, and more. You could burn a video calibration disc and play that onto the TV through a game console or DVD player. (Here is an example of one for NTSC TVs: Some TVs or monitors may contain built-in test patterns that can be accessed through a service menu, check a service manual to see if they exist for your model and how to access them. Symptom/Issue Adjustment/Fix Images on screen appear blurry, particular at high resolutions. Is often caused by an out of focus CRT Firstly, in the test pattern generator, go to the "Focus" or similarly named pattern, this will display a bunch of small dots on the screen, the goal of focusing the CRT is to make these dots as small and even as possible. Once the image is prepared it is time to begin making focus adjustments. Secondly, a magnifying glass may be helpful, particularly for small or high-resolution screens to be able to see the dot size better. Some very old CRTs may contain a focus adjustment potentiometer externally, either on the front or the back of the unit, however this is uncommon and this explanation is for CRTs with internal pots on or near the flyback. Disassemble the monitor/TV, discharge the tube, and identify the flyback transformer, they will be labelled "Focus" and "Screen" or something similar. In the case of a 3 knob transformer, they will be labelled "H Focus" "V Focus" and "Screen" or something similar. If there are no knobs on the side of the transformer, they will have similar naming on the PCB silkscreen. For this adjustment, you will only want to touch the focus potentiometers, do not touch the screen pot. Turn the CRT on, ensure you are isolated from ground and using a nonconductive object to touch the potentiometers, dispand lay the Focus test pattern on screen using the highest quality connection available. For CRT with single focus pot: Slowly turn the focus pot: Slowly turn the focus pot in a direction while looking closely at the dots displayed on screen using the highest quality connection available. dots are becoming larger, then you need to turn the knob the other way. Once you have figured out the needed direction to turn the pot, look very closely at the dot and zero in on the point where the dot is smallest. For CRT with dual focus pots: When you have 2 focus pots you are looking for not only the smallest dot, but also one that is even in width and height. Begin with either the H or V pot and slowly turn while examining one of the dots displayed on the screen, zero in on the point where the dot is either shortest or thinnest depending on pth ot you are looking not only to get the smallest dot, but also a dot that has an even width and height. Therefore after adjusting the second pot, you may need to return the first pot io make the 2 even. Once you have gotten the focus to an optimal point, switch to a screen that is reflective of how you intend to use the CRT (game, desktop, movie, whatever) and ensure that the picture shows up well there and if applicable switch to the resolution that you plan to use the CRT at. Once you have confirmed that everything is good, add a small amount of glue to the edge of each potentiometer to stop it from drifting in the future. Ensure that this is not extremely strong glue however in case you need to make adjustments again. Screen is dim, colours not showing up well. While in some cases a dim screen and lack of vibrant colours can be a sign of the phosphors on the screen degrading which is not fixable. This can be temporarily fixed by adjusting the brightness but will cause the screen degrading which is not fixable. displayed after. Some televisions and monitors may contain external adjustments for brightness and contrast, however, if your CRT does have those or if the external ones do not suffice then here is how to adjust the internal screen pot: Disassemble the monitor/TV, discharge tube, and identify the flyback transformer. Look for potentiometers on or near the flyback. You are looking for a potentiometer labelled "Screen" or "Brightness". Do not touch any of the other potentiometers. Prepare an image to display on the CRT is turned be careful of high voltage locations and try to only adjust the potentiometers using a non-c-nductive object. Find which direction of adjustment increases the brightness of the pot then slowly turn it that way until the image is at a point where the colours are fairly bright and vibrant but not washed out. Pay attention to the black part of the image and ensure that it does not get any brighter, once the black part begins to get noticeably brighter then you have set the brightness too high and it should be turned back down. Once you have confirmed that everything is good, add a small amount of glue to the edge of the potentiometer to stop it from drifting in the future. Ensure that this is not extremely strong glue however in case you need to make adjustments again. The "optimal brightness and vibrancy" will be different for different for different for different to note that having the screen too bright can increase the speed in which the phosphor degrades to the point where it should be. it is important to note that having the screen too bright can increase the speed in which the phosphor degrades to the point where it should be. it is important to note that having the screen too bright can increase the speed in which the phosphor degrades to the point where it should be. it is important to note that having the screen too bright can increase the speed in which the phosphor degrades to the point where it should be. brightness or colour back. If this adjustment was done when the phosphor was already starting to go then it may work as a temporary fix but it will not last forever. Misconvergence, one colour sticks out from the rest on edges between light and dark, or in extreme cases the colours have completely separated from each other. Information coming soon Tilted Image, the whole image appears to be slightly (or in rare cases drastically) tilted. Issues like this often stem from physical abuse of the display causing the deflection coil is responsible for bending and moving the straight beam of the electron gun(s) in a way that creates the picture on the screen, it does this magnetically so if it is physically tilted then the whole image on the screen will appear to be tilted. Most modern CRT monitors and TVs will have to access the service menu (Refer to mthe anual on your TV for how to access.) In the case of there only being a small tilt in the display then using these adjustments is a good way to correct it. These adjustments are also a good way to fine-tune after making a physical adjustments are also a good way to fine-tune after making a physical adjustment. Not all displays have the tilt correction setting or the tilt correction setting or the tilt correction may not be working/not be enough to correct the tilt correction setting or the tilt correcting or the tilt correction setting or the tilt correction can make a physical adjustment to the deflection coil assembly. Take note of the direction coil assembly, this screw is located at the back of the deflection coil assembly and is normally the very last object around the neck of the tube before it reaches the socket. Make a rough adjustment to the tilt of the deflection coil based on what you observed from the tilt of the screen. Remember that the deflection coil based on what you observed from the tilt of the screen. the electrons hit the screen. Here is a visual to help understand how the gun adjustment works: Turn CRT on to display an image and check for tilting. As long as the tilt is very minor, you can be fine tuning. If you have available OSD controls then you could do the last fine-tuning on the OSD, if you do not have OSD controls or if you just want to have the coil as perfectly aligned as possible then you can see the steps for physical fine-tuning: Put an image on screen that has a straight line close to the top or bottom bezel of the display, you can use this as you gaurge for tilting. Ensure the deflection coil screw is tight enough hold the coil place while still being slightly twistable. Being extremely careful of the neck board and any exposed wiring on the deflection coil assembly. Begin making slight adjustments to the tilt of the deflection, re-tighten the screw then put the display back together. If your display has tilt correction in the OSD then any further small adjustments can be made in the OSD. CRT TVs are known for their durability, but over time, they may develop issues like no display or a completely black screen. Understanding the root cause and performing systematic troubleshooting can help restore your TV's functionality. In this guide, we will go through the step-by-step process of diagnosing and fixing CRT TV no display or Black Screen [Solve Now] Focus Keyphrases: CRT TV no displa cord, fuse, and mainboard for any visible damage. Use a multimeter to check if the power supply board is delivering the correct voltages. Replace any blown fuses or damaged components. If the power supply is faulty, consider replacing the entire board. Internal Link: CRT TV Power Supply Repair Guide Symptom: A faint high-pitched sound but no display. Solution: Check the flyback transformer for overheating or damage. Measure the output voltage using a multimeter. If the flyback transformer if it is faulty. External Link: Flyback transformer for overheating or damage. Measure the output voltage using a multimeter. If the flyback transformer if it is faulty. External Link: Flyback transformer if it is faulty. sound. Solution: Use a multimeter to test the HOT for short circuits. A faulty HOT can prevent the high-voltage circuit from functioning properly, leading to CRT TV no display issues. Replace the transistor if faulty and check for associated component failures. Also, inspect the surrounding resistors and capacitors for signs of burns or damage. Symptom: No glow from the CRT neck. Solution: Inspect filament voltage and continuity. If no voltage is present, check the heater circuit components and wiring. A broken heater circuit components and wiring to the filament for normal operation. Symptom: CRT TV no display, but the TV has power. Solution: Test the horizontal and vertical deflection circuit ensures proper signal flow. Inspect the yoke coils and deflection capacitors for issues. A faulty vertical IC may cause a single horizontal line, while a faulty horizontal IC may lead to a CRT TV black screen. Symptom: No display but faint sound is present. Solution: Verify the video input circuit and video loss while the sound remains active, contributing to a CRT TV black screen problem. Ensure proper signal transmission from the tuner to the video amplifier. Test the video amplifier. Test the video signal on the neck board to confirm video output. Reassemble the TV and power it on to check for a restored display. Adjust screen focus and color balance. Test different input sources to ensure proper function. Secure all components and perform a final safety check. If the issue persists, recheck all previous steps to identify missed faults. A prolonged burn-in test can help verify the stability of the repaired by systematically diagnosing power, high-voltage, and video signal components. By following these steps, you can successfully restore your TV's display. If the problem persists, consider consulting a professional technician. Regular maintenance and proper handling of electrical components can prevent many of these failures in the future. File name: cordcutterty 180608 411.zip Release notes Adds recording support to the USB port on Cordcutter TV (Note: recordings can only be made on USB thumb drives formatted as NTFS. Fat32 formatted drives will not record)Adds updated Plex support: Plex will see Cordcutter TV as two network TV tunersRecording name is now Channel_date_timeNow supports iOS and AppleTV Scheduled Recordings (requires myTV app for iOS version 2.30 or later) Add support for three quality setting requires Android myTV version 30 or later. Installation instructions: Note: an Ethernet cable is needed when updating the firmware. You can either use Ethernet from the condcutter TV to the router, or Ethernet cable. The following instructions assumes you have the Ethernet cable connecting your Cordcutter TV to the router. First, download the Cordcutter TV firmware files and unzip them. You can find the Cordcutter TV firmware files above. There are two files: rootfs yyyyy.tgz and Cordcutter TV. You can use any Ethernet port on the back of the router except the port which is used to connect to the Internet (most times, this port is marked WAN, so don't use this one). Next, reset the Cordcutter TV. On the back of Cordcutter TV, unplug the power connector. Hold the reset button for about 10 seconds before releasing it. This resets the Cordcutter TV. It takes about 30 seconds for the reset to be complete. Find the IP address of the Cordcutter TV -> Info -> IP Address of the Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address of the Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Hauppauge Cordcutter TV -> Info -> IP Address in Settings -> Device -> Haup or wireless to your router as long as the Cordcutter TV. You will now be at the home page of the Cordcutter TV. Click Firmware Update. You will see three uploads, but we only be using the first two. Click Choose file and then locate the rootfs_5516 411.tgz file you downloaded and then click UploadRootfs. When the upload is complete, you will see an 'OK' message. Type in the IP address once more to get to the main Cordcutter TV page. Click Firmware Update again. Click 'Choose file' and then click UploadRootfs. When the upload is complete, you will see an 'OK' message. When the upload is complete, you will see an 'Rebooting' message. That's it. After the reboot, the new firmware will be on your Cordcutter TV (if you had previously connected it). Troubleshooting: If you do not see the three downloads in the Firmware Update page, you did not hold the reset button long enough. Unplug the power cable, push and hold the reset button while you plug in the power cord. Hold the reset button depressed for 10 seconds. Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. Dear electronics repairer. CRT Television troubleshoot and localize CRT television problems in a logical step by step guide to troubleshoot and localize CRT television problems in a logical step by step function of the problem (symptoms) going backward to trace the faulty components. This is possible because CRT Television exhibit specific symptoms for specific problems; therefore by understanding the symptoms a smart tech can localize a TV problem to a small section by just observing the symptoms. means the book can pay for itself after only reading one chapter (symptoms). A photo speaks a thousand words; therefore I have used in this book can be english as his first language including myself, so the English I have used in this book can be english I have used in this book can be english as his first language including myself. understood even by a class six pupil! List of Content Chapter 1: Main fuse keep on blowing. Chapter 2: Power supply is dead, voltage at the main capacitor but nothing at the secondary side. Chapter 3: Screen takes long for the picture to appear on the middle of the TV screen Chapter 6: Screen partially closed with black stripe at the bottom or top of the screen Chapter 11: HV is present but the screen chapter 11: HV is presen screen is dark. Chapter 12: Screen is blue but audio is okay. Chapter 13: Simple test for Cathode ray tube (CRT) bad or not. Chapter 14: Picture is purple, Yellow, light blue. Chapter 15: Horizontal output transistor (H.O.T) get too hot, then short after hours/days/ or weeks after replacements. Chapter 17: Picture is okay but no audio. Chapter 22: Installing universal TV board (TV kit) Chapter 23: Conclusion When writing this book I was having the following group in mind... You have gone to college of electronics and completed that repairing CRT TV is not a walk in the park. You are technician for over 5 years and your workshop is full of junk board and TV waiting for the owners to collect as un-repairable You are a technician and you find most of your work is to replace faulty TV board... You have another job and want to do electronics repair as a career or part time job... You have another job and want to supplement your income by repairing TVs for your friends and neighbours... You are a technician and still there are some things you feel shy to ask your friends and neighbours... You are in TV repairs business but not able to pay your bills from your repair income. This book can change your story to this....... Hie Mr. Mndaka, Once again I have written this to appreciate for your extra-ordinary help about the first one to change was L441, as soon as I replaced this coil I switched on the set to see if it was the cause. Wow! My eyes were astonished to see the Set being resurrected from the hell. Full screen and audio still there. It didn't take me even 20 minutes. It's really great to have known you and I believe if I could have known you two years ago I could even have been fixing Television sets with my eyes closed by now. May God bless you Regards-Wilson South Africa Hi Mr. Humphrey I have discovered treasure, am getting bolder repair TVs without fear, your illustrations are unique. Thanks-Moses Uganda The book is going for an introductory price of \$34 USA dollars Mr Baset from Iran want some info about this ebook... Don't have credit card or paypal? worry not just send me an email at :humtechelectronics@gmail.com for details... New..New.. For customers from Kenya and East africa you can now pay using M-pesa: contact me via +254 733 475 040 for details... New..New.. For customers from Kenya and East africa you can now pay using M-pesa: contact me via +254 733 475 040 for details... New..New...New...New...New better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. According to statistics published by Julia Stoll, TV consumption has increased dramatically during the coronavirus pandemic in the US. TV has become the main source of enjoyment, refreshments, and awareness for those who are confined indoors. But what happens if something goes wrong with our TV? If you experience your TV turning itself off randomly, read the article to know what causes of Why TV Turns Off Randomly Below, we've compiled all the possible causes of why your TV randomly turns off. 1. Power Supply The first cause may seem obvious but it helps to check the power supply of the television. Ensure that the problem isn't with a cable box or another connected device before hunting off itself. Generally speaking, all TVs have a tiny light remains on even though the screen has gone completely black, the connected components might be your TV to turn off randomly on its own. The problem can also be related to your TV's frayed wiring or poor power supply. Faulty capacitors or frayed wires negatively impact your television performance. Solutions To Fix This Problem: The first thing to try to fix the problem is the simplest, and in most scenarios, this trick works pretty well. Just unplug your television from the wall (outlet) and wait about 30 to 60 seconds. After a minute, simply plug it back in solidly. This trick will reset your TV and also let it relax for a few minutes. However, if the problem is related to capacitors or wires, you need professional help. 2. Sleep Timer If your TV is turning off regularly at a fixed time of the day, your trouble might be linked to the sleep timer. Nowadays, all smart TVs have a pre-installed feature that lets the owners turn them off at a fixed time. Someone might have unintentionally set it up when you were not around. Solutions To Fix This Problem: To fix this problem. To fix this problem for the find an option, something like Power-Scheduling Feature. 3. Motion Sensor Ore at a fixed time. Standby Power scheduling isn't the only cool feature in smart TVs. Most modern televisions also have standby or sleep mode. In smart LEDs, the televisions have motion-detecting features pre-installed. This particular feature was built-in for people who fall asleep on the couch while watching TV. The motion sensor detects the movements are detected. Solutions To Fix This Problem: To fix this problem, follow the steps: Press the home button. Next, go to Advanced Setting. Then, select Clarity Disable both MotionPlus & MotionSmoothing features Control If your TV still keeps turning off even after disabling both MotionPlus and Power-Scheduling features, there is a high probability the culprit is your remote control. There are two problems linked to the remote. be the greasy circuit board and sticky buttons or a damaged power button. This can also cause your remote control to send out abrupt signals and cause the TV to switch off randomly. Solutions To Fix This Problem: To deal with fluctuations in power, simply replace your old batteries with brand-new ones. If this stops your TV from turning off abruptly on its own, you have your solution. It's in your remote control. However, if the problem persists, follow these steps to clean your remote circuit board. Afterward, attentively clean the buttons on the remote control as well. After the circuit board and buttons dry out, put back the case together. 5. Overheated Components Like any other electronic, your TV can also get overheated Even though smart LCD or OLED TVs don't require a high amount of power. Sometimes, due to high voltage and narrow airflow, the components of the TV get hot, resulting in a sudden shutdown. If your TV doesn't have good airflow, pulling a couple of hundred Walts would quickly overheat the components. These days, smart TVs have this fantastic feature where if the components get overheated, the TV will shut down for a range of reasons. Solutions To Fix This Problem: Just unplug your television from the wall (outlet) and wait for a couple of minutes, simply plug it back in solidly. This will let the components of your television cool down. 6. HDMI-CEC If the problem is not in your power supply, sleep time, remote, motion sensor, or overheated components, simply plug it back in solidly. there is a solid chance the problem lies in the HDMI-CEC feature. In some HDMI-CEC devices, the CEC feature doesn't only project audio and video through it but also allows the HDMI devices to talk to one another and control each other. So, your Xbox, cable box, PlayStation, or any other device could be controlling your TV at the click of some button or some wired signal it sends. For instance, when you turn on your Xbox or any other cable box, HDMI-CEC can switch on your TV automatically without needing a remote. No doubt the feature is cool and handy, but it can also turn frustrating and annoying. Your TV will turn off and on from any misinterpreted signals. Solutions To Address This Problem: To disable your TV's HDMI-CEC feature, follow these steps: First, press the Menu button. Secondly, get down and select the CEC feature (In Sony TV = Bravia Sync, in Samsung TV = Anynet+, and LG TV = SimpLink) Select CEC disabled. 7. ECC Besides HDMI CEC there are a couple of other reasons that might be turning off your TV. In a VIZIO TV, there are certain commands to power on (like casting on TV). To disable this feature, follow these steps: Grab the remote control and press the MENU button. Choose the SYSTEM option. Switch the POWER MODE to ECO MODE. Additionally, if you own a SONY TV then these steps are quite different, follow here: Press the MENU button on the remote control. Choose ECO. Turn off these features: Presence sensor, idle standby, and auto shut-off. It will prevent the automatic turn-off of your TV. The above-mentioned 3 features do the following functions: Presence Sensor: If there is no motion in front of the TV for a specific time, then it will turn off the picture and continue to play sound. However, if there is no motion even after 30 minutes, it will turn off and switch to standby: If you don't press any button on the remote control for a specific period, the TV will shut down. Auto Shut-off: This feature turns off the TV if no input signal is detected for a certain period. Conclusion There can be a range of reasons why your TV keeps turning off randomly on its own. From power supply problems and sleep timers to overheated components and HDMI-CEC features, any hidden reasons can cause your TV to shut down abruptly. Sometimes, the problem can be solved just by swapping the old batteries with new ones, but other times you may need a professional. Faulty capacitors and frayed wires require you to either call a professional or entirely buy a new television. Hopefully, changing the batteries will be enough to fix the problem. Interested in getting internet on a old CRT TV? Wondering how to connect to a smartphone and get internet? On this Ask Expert page find responses to your query. I am using a CRT Television set for last about 18 years. It works fine for me as I do not spend much time watching TV. Of late due to the usage of online news sites and other social media like whatsapp etc. my dependence on TV even for news is also reduced. I would like to convert my old TV to one which can be used for internet connecting to my Android phone. When I searched the net, I could find that there were some facilities like Vodafone web box(where SIM was used) and some other converters. Some of them are unavailable or discontinued since. I would like to know from ISC experts, from their experience, how to convert my CRT TV to be able to get internet connected to my android phone directly or by WiFi. There are some gadgets like google chromecast which you can try to get online from sites like eBay.com which can be connected at its mini USB port to your TV at its free USB port for power (or alternate power source) and you have to install a chromecast app in your mobile and this system will now use your wi-fi network in your house (wi-fi is needed for this system). Using the TV remote you have to select HDMI position and you will be asked for certain basic settings in your mobile in chromecast app and it will be connected through wi-fi to your CRT and you can enjoy the seamless streaming between the two. There are some alternate gadgets and methods for the arrangement you want and there is one site as given below where it is given in good details. You can visit for detailed information there.www.gadgetsnow.comKnowledge is power.My TV is an old one. It uses RCA cables for audio-video. However it woks with cable set top box. The connecting to android phone and getting internet in it.For converting a CRT TV to smart TV the better option to go with is through Wi-Fi. You would need below listed additional components to achieve this converter (available in Amazon online if you can't find in any physical store) First connect your TV and the Chromecast device to the power socket. Connect the output from chromcast to the HDMI to AV converter. On the other side of this converter you need to plugged into your CRT TV. Now turn on these sockets. Please note you would need to do initial set up of chromcast once the conversion is successful. It is pretty straightforward process to set up the chromecast. You will get a code verification while set up is done, you will be able to do all the activities of chromcast like watching YouTube videos, Netflix and other Google Apps through your CRT TV.RegardsRizwanUpdate. I had since spelt my requirement by a new question in Ask Experts section on 15 Nov 2019, titled Suggest a suitable Android TV box for my old colour TV." I had received some useful suggestions. Leading fom them and from my search in the net on the subject, I bought an Android TV boc and converted my old CRT TV to a smart TV. Now I enjoy internet and many apps in my old CRT TV to a smart TV so that it may be helpful to others who also harboursimilar doubts. Are you tired of dealing with a malfunctioning Sony CRT TV? Are you frustrated with the constant flickering, poor picture quality, or strange noises coming from your TV? Well, you're in luck! In this comprehensive guide, we'll walk you through the process of resetting your Sony CRT TV, helping you to troubleshoot and potentially fix some of the most common issues plaguing your device. Understanding the Need for a Reset Before we dive into the nitty-gritty of resetting your Sony CRT TV, it's essential to understand why you might need to do so in the first place. Here are some common scenarios where a reset might be necessary: You've noticed a degradation in picture quality, with the image appearing distorted, fuzzy, or discolored. Your TV is experiencing frequent shutdowns or freezing, making it impossible to watch your favorite shows or movies. You've tried adjusting the settings, but they're not sticking, or you've accidentally changed something you can't undo. In any of these cases, a reset can be a valuable troubleshooting step to get your TV back to its optimal performance. Preparing for the Reset Before you start the reset process, make sure you've taken the following precautions: Gather Your Remote Control and any other accessories, such as the TV's power cord, antenna, or cable connected to your TV, including DVD players, gaming consoles, and streaming devices. This will prevent any conflicts or interference during the reset process. Ensure the TV is Turned Off Make sure your TV is completely powered off before starting the reset process. This will prevent any accidental activations or shutdowns during the process is relatively straightforward, but it's essential to follow the steps carefully to avoid any complications. Method 1: Soft Reset A soft reset is the most common type of reset and is usually the first step in troubleshooting your TV. To perform a soft reset: Press the Menu button on your remote control. Navigate to the System or Settings. Wait for the TV to complete the reset process, which may take a few minutes. Method 2: Hard Reset If the soft reset doesn't resolve the issue, you may need to perform a hard reset. A hard reset if the soft reset doesn't resolve the issue, you may need to perform a hard reset will erase all saved any important information before proceeding. To perform a hard reset. A hard reset will erase all saved any important information before proceeding. button on your remote control. While holding the Volume Down button, press the Power button again to turn the TV back on. Wait for the TV to complete the startup process, which may take a few minutes. Troubleshooting Common Issues After the Reset After resetting your Sony CRT TV, you may encounter some troubleshooting tips to help you resolve them: Picture or Sound Issues Check that the TV is set to the correct input source (e.g., HDMI, Composite, or Component). Adjust the picture settings to optimize the display quality. Ensure that the sound settings are configured correctly, and the volume is turned up. Channel Tuning Issues Auto-program the TV to detect available channels. Check that the antenna or cable connection is secure and properly configured. Maintaining Your Sony CRT TV To prevent the need for future resets, follow these maintenance tips to keep your Sony CRT TV running smoothly: Regularly Update the Firmware Check the Sony website for firmware updates and follow the instructions to install them. Ensure that the update process is completed successfully before turning off the TV. Adjust Settings Correctly Avoid making drastic changes to the TV's settings, as this can cause performance issues. Take note of the settings you've changed, so you can easily revert to the original configuration if needed. Clean the TV's screen and interior, causing performance issues. Use a soft cloth and gentle cleaning products to wipe down the TV's exterior and interior. Conclusion Resetting your Sony CRT TV can be a daunting task, but with this comprehensive guide, you should be able to troubleshoot and potentially fix some of the most common issues plaguing your device. Remember to take the necessary precautions before starting the reset process, and don't hesitate to seek professional help if you're unsure about any of the steps. By following the tips and guidelines outlined in this article, you'll be able to maintain your Sony CRT TV and enjoy optimal performance for years to come. So, go ahead and give your TV a fresh start - it might just thank you for it! What is the purpose of resetting my Sony CRT TV? Resetting your Sony CRT TV can resolve various issues such as picture or sound problems, remote control malfunction, or unresponsive buttons. It can also restore the TV to its factory settings, which can be helpful if you're experiencing issues after adjusting settings, which can be helpful if you're experiencing issues after adjusting settings or installing new software. By resetting your TV, you can start from scratch and potentially fix causing frustration. Additionally, resetting your TV can also help to eliminate any software glitches or bugs that may be causing issues. It's a simple and harmless process that can often resolve problems without the need for professional repair or replacement. By following the step-by-step guide, you can easily reset your Sony CRT TV and get it working like new again. Will resetting my Sony CRT TV delete all of my saved channels and settings? Yes, resetting your Sony CRT TV will delete all of your saved channels, will be erased. If you have a lot of saved channels or custom settings, it's a good idea to write them down before resetting the TV so you can easily re-enter them after the reset. It's also important to note that resetting the TV will not delete any external devices connected and functional after the reset. However, any customized settings for these devices may be lost, so it's a good idea to consult the user manual for these devices to re-enter any customized settings. What are the common issues that can be resolved by resetting my Sony CRT TV? Resetting your Sony CRT TV? problems, remote control malfunction, or unresponsive buttons. It can also fix issues with the TV's menu system, such as being unable to access certain settings or features. Additionally, resetting the TV can resolve issues that can be resolved by resetting the TV include problems with the TV's built-in timer or scheduled recordings, issues with the TV's closed captions, and problems with the TV's closed captions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions, and problems with the TV's closed captions or audio descriptions or audio d my cable or satellite service? Resetting your Sony CRT TV will not affect your cable or satellite service. The reset process only affects the TV's internal settings and does not impact any external devices or service. Your cable or satellite service will continue to work as usual, and you will not experience any interruptions or outages as a result of resetting the TV. However, if you have a digital cable box or satellite receiver connected to your TV, you may need to re-authorize the device. Consult your cable or satellite provider's instructions for more information on how to do this. Can I reset my Sony CRT TV without the remote control? Yes, you can reset your Sony CRT TV shave a reset button located on the TV itself, usually on the front or side panel. Consult your TV's user manual to find the reset button on your specific model. To reset the TV without the remote control, simply press and hold the reset process, and the TV will restore its factory settings. Note that you may need to use a paperclip or other small object to press the reset button, depending on its location and design. How long does it take to reset my Sony CRT TV can vary depending on the model and age of the TV. In general, the reset process typically takes around 30 seconds to a minute to complete. During this time, the TV will turn off and then back on again, and you may see a screen displaying the TV's logo or a progress bar. Once the reset process is complete, the TV will automatically turn back on and display the factory settings, picture settings, picture settings menu. and parental controls. The entire process, from start to finish, should take around 10-15 minutes to complete. Is it safe to reset your Sony CRT TV? Yes, it is safe to reset my Sony CRT TV? Yes, it is safe to reset my Sony CRT TV? Yes, it is safe to reset your Sony CRT TV? Yes, it is safe to reset my Sony CRT TV? Yes, it is safe to reset your Sony to help troubleshoot and resolve common issues with the TV. In fact, resetting the TV can actually help prevent damage to the TV's internal components by restoring the step-by-step guide, you can safely and easily reset your Sony CRT TV and get it working like new again. It's getting hard to find info on Service menu settings for Sony's WEGA CRT Tvs. Much of the this info has disappeared from the Web. For the most part, this thread is relevant for WEGA CRTs produced from around 2000 to 2006 or so. The Following info comes from //myweb.accessus.net/~090/sonyadj.html#warn As you can tell, this isn't on the web anymore. I had to use wayback machine to pull it up. I have slightly reformatted and cleaned up this info for the forum. -HOW TO ENTER SERVICE MODE [PWR OFF] - [DISP], [5], [VOL+], [PWR ON] -or- [PWR OFF] - [DISP] [5], [PWR ON] The TV will turn on in service mode and the screen will look something like this: NAVIGATE IN SERVICE MODE [1] = Moves to Previous Menu Item [3] = Adjusts Value Up [6] = service mode settings to NVRAM RESTORE USER SETTINGS [8] followed by [ENTER] = Restores All *USER* settings to factory defaults RESET VALUES [0] followed by [ENTER] = Read Default service mode value from stored settings. (service mode reset) LEAVE SERVICE MODE [PWR OFF] = Leave Service Mode any settings not written will be in effect until TV is unplugged or a Reset is performed. RETURN TO DEFAULT SETTINGS: BEFORE storing NEW settings - unplug TV from wall, wait a few seconds, then plug back in, turn TV set on - All settings not written will have been lost. and store in NVRAM. PLEASE NOTE: RECORD ALL ORIGINAL VALUES BEFORE MAKING ANY ADJUSTMENTS. XBR250 color BANDING PROBLEM If you have a XBR250 and you're experiencing horizontal blue, green or red banding across the screen with a component video connection, you will need to enter service mode and adjust the HOSC parameter. Initially HOSC is set to 7 (factory default), you'll need to change it to about 11 - this will eliminate the color banding in the picture. ITEM TYPICAL RANGE DESCRIPTION ------- AFC 0 0-3 AFC Loop Gain HFRE 42 0-127 Horizontal Frequency VFRE 11 0-31 Vertical Frequency VPOS 16 0-31 Vertical Picture Position VSIZ 18 0-63 Vertical Picture Size VLIN 6 0-15 Vertical Picture Linearity VSCO 10 0-15 Vertical Correction HPOS 6 0-15 Horizontal Picture Position Amp. CPIN 4 0-7 Corner Pincushion PPHA 7 0-15 Pincushion PPHA 7 0-15 Pincushion upper ends, vertical lines LPIN 10 0 31 Pincushion lower ends, vertical lines PPHA 7 0-15 Keystone correction, horizontal lines HTRP 8 0-15 Keystone correction, horizontal lines VCOM 2 0-7 Vertical Compensation VUSN 0 0,1 Places Bars on Picture to give 16x9 Area EHT 15 Adjust Height to 16x9 Area EHT 15 Adjust Heig of VZOM ASP 47 Vertical Picture Size - Aspect SCRL 31 Vertical Picture Position HBLK 1 0,1 Horizontal Blanking (on/off) LBLK 15 Left Blanking RBLK 3 Right Blanking RBLK 3 Right Blanking GAMP 18 0-31 Green Amp. BAMP 14 0-31 Green Amp. GDRV 18 0-31 Green Amp. BAMP 14 0-31 Green Amp. GDRV 18 0-31 GRV level) BCUT 1 0-15 Blue Cutoff - (lower level) RDRV 21 Red Amp. - (upper level) BDRV 18 Green Amp. - (upper level) BDRV 14 Blue Amp. - (upper YG 11 0-15 Sets the amount of GREEN G-YB 9 0-15 Sets the amount of GREEN AXIS 0 0-63 Sub-Picture Contrast (Picture) SCON 30 0-63 Sub-Picture Contrast (Pic 22 0-63 Sub-Picture Brightness (Black Level) RGBP 10 0-63 RGB Picture Sharpness SHPF 3 0-15 This helps with the S-Video sharpness NRLV 0 0-3 Find the value that gives the best resolution VSMO 1 0,1 Vertical Pull In Range (1 allows PAL in B&W) REF 2 0-3 Reference Line ROFF 1 0,1 Red Gun ON(1)/OFF(0) GOFF 1 0,1 Green Gun ON(1)/OFF(0) BOFF 1 0,1 Blue Gun ON(1)/OFF(0) RON 1* 0,1 Red Gun ON(1)/OFF(0) GON 1* 0,1 Cleans up Reds/Yellows ABLM 0 0,1 Automatic Background or Brightness Limiter NOTC 1 0,1 Notch Filter ON(1)/OFF(0) VMLV 0 0,1 Scanning Velocity Modulation ON(1)/OFF(0) VAPI 0 0,1 Sets vert resolution for 3-d comb filter VAPG 0 0,1 Sets vert resolution for 3-d comb filter DRGB 0 0,1 On-Screen Display (OSD) - On/Off DPDV 1 0-3 Lumipon MPIC 8 0-63 Lumipon (depth) SVOL 0 0-15 Sub-Volume (0=Max,15=Min.) SBAL 7 0-15 Sub-Balance (0=Left,15=Right) BASS 8 0-15 Sub-Bass (0=Min., 15=Max.) TRE 7 0-15 Audio SPECTRAL (0=Mix., 15=Max.) MPX - 0-15 Audio OSC1 SAPV - 0-15 Audio OSC2 PILO - 0-15 Audio VIDE BAND VD - 0-15 Audio SPECTRAL LVOL - 0-15 Audio VOLUME-L RVOL - 0-15 Audio VOLUME-R PADJ 63 0-255 Hor/Vert Picture Adjustment (total picture) UYBO 32 0-63 Upper Y Bow (B/R Bottom) HAMP 34 0-63 Horizontal Amp. (B/R OuterLines) HTIL 32 0-63 Horizontal Tilt (R/R) UCBO 39 0-63 Upper C Bow (B/R Corners Only) UTIL 37 0-63 Upper Tilt (Top Corners) LCBO 41 0-63 Lower C Bow (B/R Corners Only) LTIL 40 0-63 Lower Tilt (Bottom Corners) DCSH 36 0-63 Skew correction, vertical lines RTCO - 0-63 Raster Rotation PHPO 79 0-127 Picture In Picture (PIP) Horizontal Position PHUE 0 0-31 Picture In Picture (PIP) Hue MSHU - 0-31 Main PIP color SSHU - 0-31 Small PIP Colo SKEW - 0-63 convergence service item GH PIN - 0-63 convergence service item GH CENT - 0-63 convergence service item RV CENT - 0-63 convergence service item BH CENT - Model ID ID1 127 0-127 Model ID ID2 104 0-127 Model ID ID3 64 0-127 Model ID ID3 64 0-127 Model ID ID4 19 0-127 Model ID ID5 1 0-127 Mo One of the most important things you can do is to write down ANY changes you make in the Service Menu. Write down current and then new settings. It's very, very easy to misadjust these TV's and fuck everything up. I will continue to update this first post as new info are shown only for reference purposes. is found. Keep in mind not all the Service Menu options appear on all TV's. Great job! Thanks for getting all this info and sharing! Nice work. I needed this like 5 years ago and ended up paying I think \$12 for instructions on how to get into the service menu since people were hoarding info. -BROKEN- Thank you SO MUCH for posting this! I know my Wega needs some adjusting but I have been at a complete loss with finding a readable FAQ. I got the service manual but that really served no practical purpose. I didn't want to start haphazardly start changing things for trial and error, but it probably would have came to that soon... Anyway, thanks again! I think this should be a sticky! Awesome. Something I have been getting around to do on the Sony 36" XBR400 I have. Note the first option ([PWR OFF] - [DISP], [5], [VOL+], [PWR ON]) was the one that worked... Thanks! gptrilik Ultra Necro I was making some changes to my 27 inch KV series trinitron and found a setting called INTL with values from 0-3, they make the scanlines look amazing around values 2-3 but sadly they don't save even after writing to NVRAM. Once you turn off the tv and back to 0. Strangely enough this setting does not exist on the 34" KV series I have (but it does have a slew of comb filter options) but nothing seems to adjust the scanline/shadows like the INTL setting. Thank you man,I was actually trying this week end to correct the geometry on my trinitron set. Thank you for this Broken! Thanks you so much, i am about to get a Wega, so this will be very helpful. Hehe, i have had an LG Flatron for years, bought it because it was sopposed to be NTSC and PAL, but PAL games displayed black and white. For years i tought i got riped off. Until one day i entered its service mode, and from there i finally fot it to display my PAL consoles properly. I so love that tv. Anyone knows if the Wega is compatible with both NTSC and PAL? Fuck the geometry on these sets is so hard to get perfect. Thanks for this guide, it's gotten me the best result so far. WEGA 4 Life. Thanks you so much, i and about to get a Wega, so this will be very helpful. Hehe, i have had an LG Flatron for years, bought it because it was sopposed to be NTSC and PAL, but PAL games displayed black and white. For years i tought i got riped off. Until one day i entered its service mode, and from there i finally fot it to display my PAL consoles properly. I so love that tv. Anyone knows if the Wega is compatible with both NTSC and PAL? Crap, just got a Wega, but the seller didnt have the remote. So, its not possible to access the service mode without the remote? Most likely not, you need to have a display and muting button typically but you might get lucky with a universal that has it, or check ebay. Most likely not, you need to have a display and muting button typically but you might get lucky with a universal that has it, or check ebay. Most likely not, you need to have a display and muting button typically but you might get lucky with a universal that has it, or check ebay. Most likely not, you need to have a display and muting button typically but you might get lucky with a universal that has it. you need to have a display and muting button typically but you might get lucky with a universal that has it, or check ebay. I think I'll have to hit the bay as mine didn't come with one. Most likely not, you need to have a display and muting button typically but you might get lucky with a universal that has it, or check ebay. I think I'll have to hit the bay as mine didn't come with one. first. If not, off to ebay as you say. Try thrift stores, too. I've seen a ton of Sony ones at the local Goodwills. All I see on that site is how to access the service menu but I cannot change the values, any ideas? This thread is great. Very informative. Question hopefully someone can answer. I just got my first Trinitron: a KV-36XBR450. A hulking beast of a TV! I've hooked up three game consoles to it: N64, PS1, and a Wii. The PS1 and N64 are composite input, and the screen scrolls and bounces around. I have tried every composite input, and the screen scrolls and bounces around. No crawl, no bounce, nothing. The N64 and PS1 work fine on other sets. So...what's wrong with my composite inputs? This TV has a bunch of S-video...but it's been years since I had an S-video cable for a console. Gonna try and dig one up this weekend to test. I have a Sony XA34M31, I can get into the service menu fine and I can change the settings I want to fix up the geometry. However it doesn't save, with mute and enter, I need to use mute and 0. It took me a while to find this info (it may have driven me crazy for an hour...) and it doesn't seem to be posted elsewhere. I have the same problem as Beaps with a KV-21T1D. I can access the service menu, no problem. But i cannot change any of the values. There must be an additional step with these models. Can anyone shed some light on this? I had a Trinitron that would only let me change the values while I was watching TV or gave it composhit - which was utter crap because I wanted to adjust for a better picture when the screen was in RGB mode. Might want to experiment with that. Here's my post from the CRT Fetish Thread about it: Oh, and while I'm at it, here's some pics of my old Screen, a Sony Trinitron KV-21T3D. I really wouldn't recommend this model and I never got it set up to put out a decent picture (I think that shows in the photos). You can only change the settings via the remote when you're using the tuner or supply a composite signal - once you change to RGB (which you have to select manually everytime as well by pressing the aux button twice, otherwise it'll show composite) the picture shifts and changes colors. So you're basically adjusting the RGB picture blind, hoping the changes you make will be right. This also means that if you're going for a good RGB picture, the composite picture you're seeing while adjusting will be shifted and looking bad. You also have to switch off your RGB source while using composite/tuner, otherwise the menu won't be readable because the picture is running. The service mode can only be reached by a entering a code on the remote while the TV is in standby, which adds to the fun... Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy.