

Your LG TV has the blues. And the blues are growing worse. There are a number of fixes you can try to make things shine again. Dear electronics repairer. CRT television problems in a logical step by step technique using ordinary test equipment to get extra ordinary result within a short time. The Book is unique as in we are starting with 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 screen and listening to the sound. So you can even decide to read the book when you get the TV in your workshop, this means the book can pay for itself after only reading one chapter (symptoms). A photo speaks a thousand words; therefore I have used numerous colour photos to make the user comfortable with any task which come his means the book can pay for itself after only reading one chapter (symptoms). or her way. I know not everyone use English as his first language including myself, so the English I have used in this book can be 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. Chapter 4: Colored spots on the screen Chapter 5: Only horizontal line appear on the middle of the Screen Chapter 5: Only horizontal line appear on the screen Chapt 9: Vertical line appears on the screen. Chapter 10: Power supply is okay, but HV is missing Chapter 11: HV is present but the 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) shorts immediately after replacement: Chapter 16: 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 18: No Picture and No audio but on screen display (OSD) present Chapter 19: Retrace lines on the screen. Chapter 20: Picture is black and whites (no colour) Chapter 21: Understanding CRT Television Critical voltage test points 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 the course with distinction but coming to the field you realized 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 with universal TV board... You are a technician and you hardly diagnose and repair more than 3 TVs in a day You are just from school and want to do electronics repair as a career or part time job... You have another job and want to supplement your friends and neighbours... You are a technician and still there are some things you feel shy to ask your friend about repair thinking that they will consider you under dog... Whenever you open a TV for repair jour estra-ordinary help about the China TV repairs business but not able to pay your bills from your repair jour extra-ordinary help about the China TV displaying the vertical line. After reading your e-book I just went straight to the coils in the horizontal circuit and 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 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. CRT (Cathode Ray Tube) TVs laid the foundation for today's more prominent LED, LCD and Plasma TVs. Even though they are still working perfectly in a lot of households. CRT (cathode-ray tube) television sets have gone down in popularity with the introduction of large screen, slim and flat LEDs and LCDs. However, there are many consumers who still have their CRT sets and are satisfied with them. But many problems in the CRT sets and are satisfied with them. But many problems often relate to the picture quality, picture color and clarity and sound quality of these CRTs. TV. Here are some common CRT TV problems and their diagnosis: CRT television has no image is a very common problem with cathode ray tube TVs. If you are facing such issue then check the obvious things first i.e. verify whether your TV is plugged in correctly and is receiving sufficient power for operation. If the power is OK, then check the video settings (like brightness, sharpness, contrast and picture settings). If the settings are fine then it might be the time to call a professional TV repair person. Bowed picture or images not lined up: This is a very common picture problem with CRT TVs. It is usually caused by the failure of an internal circuit called the convergence circuit. The circuit has convergence ICs, which when go bad create the problem in-home. CRT displays one horizontal line in the center when turned-on: Many time it happens that there appears a single thin horizontal line on the CRT TV screen. The probable cause of this problem can be a faulty yoke with a defective or burned coil inside it. The other probable cause of this problem can be a faulty yoke with a defective or burned coil inside it. cause can be a defective capacitor. Single vertical line in the center of screen: Some time when you power on your CTR TV you see a single thin vertical line on the screen. The probable cause of this problem can be a faulty yoke with a defective or burned coil inside it. Other reason can be defective vertical ICs. The ICs may have lost contacts with solder joints because of the heat production during operation. CRT TV crackles when powered up or emits a strong electrical odor: This is not a very common problem. The most prominent reason is cathode ray tube failure. insulation burn. In such situation, immediately unplug the TV from the power outlet. Call a professional TV repair person and get it corrected. Colorful shadows on the sides of the screen (can be seen as reddish orange shadow in the picture). It is mainly due to presence of any magnetic device near the TV. Magnets placed near a CRT can damage the set's "shadow mask is located behind the glass screen, as shown in the above graphical Cathode Ray Tube picture. High-power magnets can sometime cause permanent damage to the CRT. Bad sound or no sound from the TV: No sound or less sound is a commonly heard problem with CRT TVs. The most possible reasons can be damaged audio amplifier, a low supply voltage to the amplifier or a faulty audio IC. There can be other reasons as well like some faulty internal wiring. Other frequent problems with CRT TV are loss of vertical sync and loss of horizontal sync in the picture. 100%(2)100% found this document provides a preface stating that the guide will take a logi...SaveSave CRT Television Troubleshooting Guide - Humphrey Ki... For Later100%100% found this document useful, undefined Are you experiencing a common fault on your LG TV? Don't worry, you've come to the right place! Our helpful guide below will walk you through the troubleshooting process and enable you to quickly and easily identify and fix the issue. One common issue when it comes to LG TVs is a blank screen. This can be caused by a range of factors and should be addressed in the following order: Check the power connection is secure - sometimes a minor jolt or the plug coming loose from a socket could be the cause. Monitor the LED activity - this can help you to identify if the TV is still getting power. On an LG TV, a white LED light next to the Power button usually indicates it is receiving power. Re-plug the cables - disconnect the HDMI/AV cables from the TV and plug back in. Test the TV using a different source - if applicable try plugging a different device into your HDMI ports and see if it works. If the issue persists it could be that you're experiencing either a hardware or firmware issue. In this case, you may want to consider taking your LG TV to a professional repair technician. It's important to find a credible technician to ensure a proper and safe repair process. Our Directory of Appliance Repair Technicians can help you to locate a trustworthy repairer in your area. Many of the technicians on the directory have LG-specific certifications, which is a great sign you're getting qualified professional to fix your TV. If you're experiencing a common fault on your LG TV, don't despair. With the help of our troubleshooting guide, you can identify and solve the problem yourself. If the issue is more serious, it pays to find a reputable technician through our directory to get the job done. Common Faults with an LG TV and istorted or not responding to the remote, the TV not displaying a picture or having distorted or no sound, or the picture having poor colour or contrast. Q2: How can I troubleshoot common faults with my LG TV? A2: The first step to troubleshooting any issue with an LG TV is to ensure that the TV is properly plugged in and switched on, as well as ensuring that all cords and cables are securely connected. After this step, further troubleshooting tipsed in and switched on, as well as ensuring that all cords and cables are securely connected. vary depending on the issue encountered. Q3: How can I fix my LG TV when it won't turn on? A3: If your LG TV won't turn on, then there may be a power supply issue. First check that the power cords are connected securely, and then try unplugging the TV and plugging it back in. If this doesn't fix the problem, then you may need to replace the power cord or check the power supply. Q4: How can I troubleshoot issues with the picture quality on my LG TV? A4: If you're having issues with poor picture quality on your LG TV, then the first step is to check that all of your connections are secure and that you are using the recommended HDMI or AV cables. If the cables are connected correctly, then try adjusting your TV's settings to improve the picture quality. Alternatively, you could try replacing an old or damaged cable. Q5: What can I do if I can't control my LG TV with the remote is not working correctly with the remote? A5: If the remote is not working correctly with the LG TV, then the first step is to replace the batteries in the remote. If the remote is not working correctly with the LG TV with the remote? still not responding, then you may need to reset the remote or try using a different remote. If none of these steps work, then the issue may be with the TV itself and you may need to contact LG customer service. Key Takeaways From "Common Faults LG TV - Troubleshoot Easily with Our Helpful Guide"# A common issue with LG TVs is a blank screen, which can be addressed by ensuring the power connection is secure and checking the LED activity near the Power button. If the issue persists, try disconnecting and re-plugging the HDMI/AV cables and testing the TV using a different source. If the issue is more serious, it pays to locate a certified LG TV repair technician by using our Directory of Appliance Repair Technicians for a qualified and trustworthy repair. With our helpful guide you can easily troubleshoot common LG TV faults at home and determine what type of repair is needed. Minor jolts or loose sockets can sometimes be the cause of a blank screen, but if the power connection is secure, it could be a hardware or firmware issue. LG is one of the best options when it comes to smart TVs. Whether you want to get a smart TV or a regular one, LG offers a wide variety where you can find a suitable TV according to your preference, considering the budget. No matter what TV you buy, the working of electronic devices can never be guaranteed. And LG TVs are no exception. If you are one of those who are experiencing some problems with your LG TV, do not worry. We researched the most common LG TV problems. Also, we have tested a lot of troubleshooting procedures, which you can try before contacting customer service. The most common LG TV problems are Wi-Fi connectivity issues, sound, color, no pictures, screen problems, and HDMI errors. These LG TV problems require very simple troubleshooting procedures, such as rebooting, updating the internal part repaired. You do not need to worry about it as you can fix these types of issues by yourself as well. Here we have listed some most common LG TV problems reported by users. Problem Causes Solution TV not connecting to Wi-FiRestart TV, check the router, update the software LG TV screen problems Faulty capacitors, less power inputs, unplug and plug the main power cord, and seek professional help if necessaryLG TV not responding to remoteDead batteries, obstructions, magic remoteCG TV no soundFailure of fuses, outdated softwareSeek professional help from the authorized repair centerInconsistent colorsHorizontal or vertical bars on the screenCheck power inputs, unplug and plug main power cord, and seek professional help if necessaryHDMI not workingOutdated firmware, HDMI 2.1 port issuesUpdate firmware, reboot TV, reset audio settings, pair external speakers, and seek professional help if necessaryWeak signal strength, display panel damage outdated softwareImprove signal input, update softwareSound with no pictureBacklight issues, temporary glitch, interrupted power supply, outdated softwareReboot TV, check cables, seek professional help if necessaryFalse countering or posterizationInability to handle video content colors properlyCheck display before purchase, adjust color settingsNot showing up on AirplayDistance between devices, different Wi-Fi networks, turned off AirPlay, outdated softwarePower supply issues, overuse, a faulty capacitorNow we will get into each problem and provide you with a detailed explanation so that you do not have any confusion left. You can easily solve such issues without any expert supervision. Losing Wi-Fi connectivity is the most commonly faced issue among LG TV users. This problem can occur due to several reasons, such as a temporary bug, router issues, or weak signals. Before doing anything with your TV, first, try connecting any other Wi-Fi to the TV. This will help you figure out whether it is the router issue or something is wrong with your TV. If the TV gets connected to some other Wi-Fi network, then something must have gone bad with the TV. You can follow these steps to troubleshoot the problem. Restart the TV by disconnecting it after a few minutes. Power off any nearby electronic devices like a microwave oven. These devices may be causing interference. If there is an issue with the router, try restarting the router and then connecting to Wi-Fi. If you see your LG TV has updated software as that can also be the reason behind it. Are you still unable to fix this issue? Here is our complete guide on LG TV Not connecting to Wi-Fi. If you see your LG TV turning on and off on its own or the screen going completely blank, the problem might be occurring because of the faulty capacitors on the board. Apart from this, it can also be due to less power input. To troubleshoot this issue, you can follow the instructions listed below. Check your power inputs and make sure your TV cables are properly connected.Unplug the main power cord and plug it back in after about half a minute. If this does not work, then there is a possibility that the issue is with the capacitor or any other internal component. For this, you might need assistance from a highly-skilled technician. If your LG TV does not respond to the remote, you can try the following steps to make it work. Whether you have a magic remote or a standard remote, you can easily solve this issue. Firstly if none of the buttons work, try replacing the + and - signals. If you have a magic remote, you can try unregistering and re-registering the magic remote if only some of the buttons are working. You might face this issue with your LG TV in that there is no sound output from the speaker or not having no audio signals. This problem is known to occur due to the failure of fuses. You can troubleshoot it by rebooting your TV, and there are two ways to do it. Turn off the TV, remove the power cord, and place it back after a few minutes. The second method requires long-press the volume button and power key simultaneously on the remote till it reboots. You can release the buttons once the LG logo appears on the screen. If this doesn't work, try resetting the audio settings on your TV. This can be done like this:On your TV remote, press the "Menu" button.Select "Audio" and press "Enter." Click "reset" and then enter. You can change the audio settings. If still, the problem continues to occur, try pairing external speakers. If the audio is heard through external speakers, then you need to get your TV speaker checked by a professional. The issues with the colors usually begin when the TV turns off by itself, and a popping sound is heard after that. Once this happens, you might now get inconsistent colors on your screen, just like the color green gets changed. This problem is known to occur because of the power supply or the TV being overused. Often we see that a faulty capacitor inside the TV causes such issues. To solve the problem, you may want to get your TV checked by a professional from an authorized repaired. If you have LG OLED TV, you are most likely to face HDMI 2.1 port issues. It is reported that particularly the OLED TVs of the 9 and the X series are not able to handle high-quality outputs. If you face any issues with HDMI ports, you can get your firmware updated. For this, follow these steps: Go to the settings," select the "general menu." You will find the update options in "About this TV" once you scroll down. Install the update according to your TV, and after this, make sure to reboot the TV as this will help the software to get into effect. The continuous horizontal lines from the top to the display panel can also trigger this issue. The solution to it can be highly efficient signal input. For this, you can use a box cable like a high-definition set-top box. If your software needs an update, make sure you do it, as this can also help get rid of such horizontal or vertical bars' appearance. If no picture appears on your LG TV screen, but still you can hear the sound, there must be some backlight issues (if you have an LCD screen), a temporary glitch, an interrupted power supply. After about 10 minutes, plug it back in and then long-press the "power button" on the remote for 15 seconds. Check for the cables. If they are loosely connected to HDMI cables or other sound and video-related cables, make sure you do it properly. If you have an LCD screen, you must check for its screen. To do it, take a flashlight and hold it close to the TV screen. If you see any picture where the light is broken. This will need a repair, or you must upgrade to a new smart LG TV or a new TV Brand. 9. False Countering to posterization. This usually happens when the TV screen is unable to handle the colors of the video content properly. LG has not provided any long-term fix for this issue yet. However, all you can do is check the display before purchasing a TV. Check for any signs of banding when you test the display. If you already have purchased a TV and experiencing the issue, you can go to the color settings of your TV and try adjusting some features which seem to reduce the effect of banding. If your TV supports AirPlay, and you are facing any connectivity issues with this feature, you try several things which we have listed below. Remember that the AirPlay feature is only found on iOS devices and is not supported by Android devices. Firstly ensure that both devices, i.e., LG TV and any iOS device you are using, are close enough to be paired. If you TV and phone are connected to the same Wi-Fi network. This is quite obvious, but it is observed that many people often forget about it. One more thing that you can do is to connect the router to the TV via ethernet cable directly. After this, you should be getting the AirPlay is turned on because sometimes it automatically gets turned off due to a software update or a reset. Lastly, you can try rebooting your TV if nothing works.Watch this video, if your LG TV app is not working: Pros:LG OLED TVs provide high image quality. This means that organic LED technology lights up the screen in the best Way. The pixels are independent of each other and form sharp images with natural colors.LG OLED TVs can give you the best HDR experience as they support Dolby Vision and HDR10 content. This makes the TVs great for streaming purposes. Cons: Comparatively costly than other brands in the market out there. Despite being muchly more advanced, OLED TVs are great when it comes to quality but just like every other electronic device, problems are with it as well. Some minor issues can surely be dealt with by the procedures we have shared above.But for some technicians. If you face any such problems, you will require service and assistance from expert technicians. If you face any such problems, you will require service and assistance from expert technicians. If you face any such problems with your LG TV and are unable to figure out what to do, you can always contact LG's customer support. They will definitely help you out with every step and ensure a friendly user experience for you. Found the article helpful? We would love to hear your TV problems! Are you grappling with LG TV issues that are hampering your viewing experience? You're not alone. Many LG TV owners face common problems that can be frustrating, but often have simple solutions. This comprehensive LG TV troubleshooting guide will walk you through various fixes for LG TV problems, or app malfunctions we've got you covered. Before diving into specific LG TV problems, let's start with some fundamental troubleshooting steps that can resolve many common issues. A simple power cycle can work wonders for your LG TV, fixing issues like: Frozen screens Unresponsive apps Minor glitches To power cycle your LG TV: Unplug the TV from the power outlet Wait for 30 seconds Plug the TV back in Turn on the TV This process clears temporary data and refreshes the TV's systems, often resolving minor LG TV issues. Here's what to check: HDMI cables Power cord Antenna or cable connections External device connections Ensure all cables are firmly connected and not damaged. This can solve problems like: No picture Poor audio quality HDMI device issues A malfunctioning remote can make your LG TV control app on your smartphone as an alternative If your remote is still not working, it might need replacement. LG TV Common ProblemsPossible IssueLG TV Apps Not Working on LG TV1. Software BugAirPlay Not Working on LG TV1. Bad internet bandwidth2. Outdated TV Software 3. Content Restriction on iPhone4. Issues with Device ProximityThis App Will Now Restart1. TV storage is fullLG TV Storage is fullLG TV Storage is fullLG TV Storage is full_G TV Storage is full_ in picture settings2. TV software glitches3. Slow internet4. Backlight problem5. TV internal hardware problemsLG TV Connectivity Issues1. Bugs with the connectivity Issues3. Playing High-Resolution Video not compatible with TVSlow LG Smart TV1. TV Storage is full2. Outdated TV software3. Slow InternetLG TV Buffering Issue1. Storage issues2. Slow internet connectionLG TV not turning on 1. Internal hardware problem 2. TV backlight issue3. Not receiving enough powerLG TV Audio/sound issues1. Poor internet connection2. Speaker issueLG TV Keeps Restarting frequently1. LG TV Timer is enabled on LG TV2. Ad settings enabled on LG TV3. Issues with LG TV remoteLG TV User Agreements not loading up1. DNS Issues with LG TV2. Wrong Data and Time showed on LG TV3. Outdated TV softwareLG TV overscan problem1. Issues is outdated 2. Flash Plug-in problems on LG TVRemote of LG TV not working1. Issues with remote circuit2. Dust and debris in remote3. Pairing issuesLG TV hardware problem1. Long term usage2. Poor maintenance of the TV In today's smart TV era, network-related LG TV problems are common. Let's tackle some of these issues. Poor internet connectivity can lead to: Buffering App loading failures Smart features not working To fix these LG TV issues: Check your internet speed using a speed test app on your phone or computer Restart your router and modem Move your router and modem Move your router and modem Move your router and 25 Mbps for 4K content. Over time, apps can accumulate data that affects their performance. Clearing cache and data can resolve: Slow app performance App crashes Login issues To clear app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app Choose 'Clear app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app Choose 'Clear app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app Choose 'Clear app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > Application Manager Select the problematic app cache on your LG TV: Go to Settings > General > on LG Smart TV Outdated software can cause compatibility issues and security vulnerabilities. Regular updates can fix these LG TV problems: App compatibility issues Security vulnerabilities. Regular updates can fix these LG TV problems: App compatibility issues and security vulnerabilities. the update For app updates: Open the LG Content Store Go to My Apps Select 'Update All' or update individual apps Picture guality issues can significantly impact your LG TV's picture settings: Go to Settings > Picture > Picture > Picture > Picture Settings Choose a preset mode (like Standard or Cinema) Fine-tune settings. Backlight and energy-saving settings can affect screen brightness. Adjusting these can fix: Dim screen Inconsistent brightness High power consumption To adjust these settings: Go to Settings > Picture > Energy Saving Adjust the Energ displaying static images for prolonged periods Use the 'Screen Shift' feature in Settings > Picture > OLED Panel Settings Run the 'Pixel Refresher' feature periodically Sound problems can be just as frustrating as picture issues. Let's explore some common LG TV audio fixes. Incorrect audio settings can cause: Low volume Muffled audio Audio-video sync issues To optimize your LG TV's sound: Go to Settings > Sound Adjust Volume, Bass, Treble, and Balance Try different Sound Modes (Standard, Cinema, Game, etc.) If you're using external speakers or a soundbar, issues like no sound or intermittent audio cutouts might be related to these devices. Try these steps: Check all audio connections Test the TV's internal speakers Verify that the external device is set as the audio output in TV settings Incorrect audio output: Go to Settings > Sound > Sound Out Select the appropriate output (TV Speaker, Optical, HDMI ARC, etc.) If using HDMI ARC, ensure CEC is enabled in HDMI settings Some LG TV problems stem from hardware problems might require professional help, here are some things you can check: Poor ventilation can cause: Overheating Unexpected shutdowns Reduced lifespan You can also see user agreement for more details. To ensure proper ventilation: Check that vents are not blocked Use compressed air to clean out dust (with the TV unplugged) Ensure at least 4 inches of clearance around the TV Damaged ports or cables and consider professional repair for damaged ports. The TV's environment can contribute to various issues: Glare on the screen Overheating due to poor ventilation Signal interference When basic fixes don't solve your LG TV problems, it's time for more advanced troubleshooting. A factory reset can resolve persistent software issues, forgotten passwords, and major malfunctions. Here's how: Go to Settings > General > Reset to Initial Settings and data. Back up any important information before proceeding. Safe mode can help identify problematic apps and isolate software vs. hardware issues. To enter safe mode: Turn off the TV is power button when the LG logo appears The service menu can be resolved at home, some problems require professional assistance. Consider seeking help if you encounter: Persistent display issues, mainboard problems) Physical damage to the screen Before calling for service, check your warranty status. LG offers different warranty periods for various components: ComponentWarranty PeriodPanel1-2 yearsParts1 year To find authorized LG service centers: Visit LG's official website Use their service centers: Visit LG's official website Use their service centers: Visit LG's official website Use their service centers is often easier than fixing them. Here are some tips to keep your TV in top shape: Enable automatic updates in your TV settings Check for updates manually once a month Use a soft, dry cloth for the screen Avoid liquid cleaners Gently dust vents and ports regularly Avoid maximum brightness settings for extended periods Use screen savers or turn off the TV when not in use Maintain a stable power supply (consider a surge protector) Tackling LG TV problems doesn't have to be daunting. With this comprehensive LG TV troubleshooting steps before moving on to more advanced solutions. Regular maintenance and optimal usage habits can prevent many common LG TV issues, ensuring a longer lifespan for your device. Don't hesitate to tackle common problems confidently, but know when it's time to seek professional help. With proper care and troubleshooting know-how, you can enjoy your LG TV to its fullest potential for years to come. To further assist you with LG TV troubleshooting: Visit LG's official support website for model-specific guides and documentation Join LG TV community forums to discuss issues and solutions with other users Consider investing in basic tools for DIY repairs, such as a multimeter and a set of precision screwdrivers Remember, your LG TV is a sophisticated piece of technology. With the right approach and resources, most LG TV problems can be resolved, restoring your entertainment centerpiece to its full glory. CRT (cathode-ray tube) television sets have gone down in popularity with the introduction of large screen, slim and flat LEDs and LCDs. However, there are many consumers who still have their CRT sets and are satisfied with them. But many problems often relate to the picture quality, picture color and clarity and sound quality of these CRTs. Sometimes the cost of replacing it with a new TV. Here are some common CRT TV problems and their diagnosis: CRT television has no image No image is a very common problem with cathode ray tube TVs. If you are facing such issue then check the obvious things first i.e. verify whether your TV is plugged in correctly and is receiving sufficient power is OK, then check the video settings (like brightness, sharpness, contrast and picture settings). If the settings are fine then there can be problem in the video cable and hardware. If the basic diagnosis comes out fine then it might be the time to call a professional TV repair person. Bowed picture or images not lined up This is a very common picture problem with CRT TVs. It is usually caused by the failure of an internal circuit called the convergence circuit. The circuit has convergence ICs, which when go bad create the problem of bowed picture. Sometimes bad or faulty soldered-in fuses and resistors can also cause image distortion. A technician or a PRO can easily repair this sort of problem in-home. CRT displays one horizontal line in the center when turned-on Many time it happens that there appears a single thin horizontal line on the CRT TV screen. The probable cause of this problem can be a faulty yoke with a defective or burned coil inside it. The other probable cause can be a defective capacitor. Single vertical line in the center of screen Some time when you power on your CTR TV you see a single thin vertical line on the screen. The probable cause of this problem can be defective vertical ICs. The ICs may have lost contacts with solder joints because of the heat production during operation. CRT TV crackles when powered up or emits a strong electrical odor This is not a very common problem. The most prominent reason is cathode ray tube failure. The minor crackling noise is due to high voltage arcing. The possible reason behind the burning smell is caused by insulation burn. In such situation, immediately unplug the TV from the power outlet. Call a professional TV repair person and get it corrected. Colorful shadows on the sides Whether you have a CRT TV or owned it before, you must have witnessed at some point of time, a colorful shadow on the sides of the screen (can be seen as reddish orange shadow in the picture). It is mainly due to presence of any magnetic device near the TV. Magnets placed near a CRT can damage the set's "shadow mask," which can cause the wrong colors to appear in that area. (Picture Source: humphreykimathi.blogspot.com) Shadow mask is located behind the glass screen, as shown in the above graphical Cathode Ray Tube picture. High-power magnets can sometime cause permanent damage to the CRT. Bad sound or no sound from the TV No sound or less sound is a commonly heard problem with CRT TVs. The most possible reason is faulty audio IC. There can be other reasons as well like some faulty internal wiring. Other frequent problems with CRT TV are loss of vertical sync and loss of horizontal sync in the picture.