

VIDEOCON TV SERVICE MENU CODE Latest Edition

videocon tv service menu code is an essential keyword for many users seeking to access advanced settings and troubleshooting options on their Videocon televisions. Whether you're looking to fine-tune picture quality, troubleshoot signal issues, or perform factory resets, knowing the proper service menu codes can be incredibly helpful. Accessing the service menu is often a necessary step for technicians and experienced users to optimize their TV's performance. In this comprehensive guide, we'll walk you through everything you need to know about Videocon TV service menu codes, including how to access the menu, common codes, precautions, and troubleshooting tips.

Understanding the Videocon TV Service Menu

The service menu on a Videocon TV is a hidden configuration panel that provides access to advanced settings not available through the standard user interface. These settings include calibration options, system information, signal testing, and more. While these options can be powerful tools for fine-tuning and troubleshooting, incorrect modifications can lead to issues like distorted display, loss of picture, or even rendering the TV inoperable.

Why Access the Service Menu?

Accessing the service menu can be beneficial for various reasons:

- Adjust picture and sound settings beyond normal options
- Perform factory resets to restore default settings
- Diagnose and fix signal or connectivity problems
- Update firmware or software (if supported)
- Check system information and hardware details

However, it's crucial to proceed with caution, as unauthorized changes can void warranties or cause permanent damage.

Common Videocon TV Service Menu Codes

While different models might have slight variations, the following codes are widely used across various Videocon TV models. Always ensure you are using the correct code for your specific model.

Standard Access Code

Most Videocon TVs can be accessed using the remote control with the following key combination:

- Turn on the TV.
- Press the **Menu** button on the remote.
- Enter the service menu code: **0 6 2 5 3 8** (or **0 6 2 5 3 7** for some models).
- Press **OK** or **Enter**.

Note: Some models require a different sequence, such as pressing specific keys like **Mute + 182** or **Menu + 8**.

Alternative Codes and Methods

If the above code doesn't work, try the following alternatives:

- **Mute + 182**
- **Menu + 8**
- Pressing **Info** or **Exit** buttons in specific sequences
- Using the remote's number pad: entering sequences like **1234** or **0000**

Always consult your TV's user manual or service documentation for model-specific codes.

Precautions Before Accessing the Service Menu

Before proceeding to access or modify settings in the service menu, keep in mind:

- Only experienced users or technicians should make changes.
- Document current settings before making adjustments.
- Avoid changing settings you do not understand.
- Be aware that improper modifications may void your warranty.
- Always turn off the TV properly after making changes and restart to see effects.

If you're unsure about any setting, it's best to consult with an authorized service technician.

Common Settings Accessible in Videocon TV Service Menu

Once inside the service menu, you'll find various options. Here are some commonly accessed

settings:

Picture Settings

- Brightness Adjustment
- Contrast, Color, Sharpness
- Backlight Levels
- Color Temperature (Warm, Neutral, Cool)
- Positioning (Horizontal/Vertical alignment)

Sound Settings

- Volume calibration
- Balance adjustments
- Equalizer settings
- Sound mode selection

System Information

- Model number
- Software/Firmware version
- Serial number
- Hardware details

Signal and Tuning

- Auto-tuning channels
- Signal strength indicators
- Input source calibration

Factory Reset

- Reset all settings to default
- Clear custom configurations

How to Exit and Save Changes

After making necessary adjustments:

- Navigate to the 'Exit' or 'Save' option within the menu.
- Confirm your choice if prompted.
- Power off the TV and restart to apply changes.

Failing to save changes might result in the settings reverting back after a reboot.

Troubleshooting Common Issues with Service Menu Access

Sometimes, users encounter difficulties when trying to access the service menu. Here are some tips:

- Ensure the remote control is functioning properly.
- Try different key combinations or codes.
- Remove any batteries and reinsert them.
- Check for firmware updates that might affect access methods.
- Consult the user manual or contact Videocon support for model-specific instructions.

Legal and Warranty Considerations

Accessing and modifying the service menu can void your warranty if not done properly. Always weigh the benefits against potential risks. If your TV is under warranty, it's recommended to seek professional assistance rather than attempting to access the service menu yourself.

Conclusion

The Videocon TV service menu code is a powerful tool for users who want to optimize their viewing experience or troubleshoot issues. By understanding the correct access procedures, being cautious with settings, and knowing when to seek professional help, you can make the most out of your television's capabilities. Remember, always verify the specific code for your model and proceed carefully to avoid unintended problems. With the right knowledge, you can unlock hidden features and maintain your Videocon TV in optimal condition.

Videocon TV Service Menu Code: An In-Depth Investigation

In the realm of home entertainment, controlling and customizing your television experience often involves delving into hidden menus and secret codes. Among these, the Videocon TV service menu code stands out as a crucial tool for technicians, advanced users, and enthusiasts aiming to

troubleshoot, calibrate, or fine-tune their Videocon television sets. This article explores the origins, functionality, risks, and best practices associated with accessing and using the Videocon TV service menu code, providing a comprehensive guide for those interested in understanding this complex feature.

Understanding the Videocon TV Service Menu

What Is the Service Menu?

The service menu on a Videocon TV is a hidden interface designed primarily for technicians and authorized service personnel. It allows access to advanced settings that are not available through the regular user interface. These settings include calibration options, display adjustments, network configurations, and diagnostic tools.

While the primary purpose of the service menu is maintenance and troubleshooting, savvy users sometimes access it to customize picture settings or resolve persistent issues. However, due to the sensitive nature of these options, incorrect adjustments can lead to display problems or even render the TV inoperable.

Why Access the Service Menu?

Common reasons for accessing the Videocon TV service menu include:

- Calibrating picture and color settings beyond standard options
- Resetting the TV to factory defaults
- Diagnosing hardware faults or signal issues
- Updating firmware or software (if supported)
- Unlocking hidden features or configurations

Risks Associated with Service Menu Access

Accessing and modifying settings within the service menu can be risky:

- Accidental changes can distort display quality
- Incorrect settings may cause the TV to malfunction
- In extreme cases, improper adjustments can brick the device, requiring professional repair
- Voiding of warranty if unauthorized modifications are identified

Therefore, it's strongly recommended that only knowledgeable users or certified technicians

attempt to access these menus.

How to Access the Videocon TV Service Menu

The Standard Service Menu Code

Most Videocon TVs, like many brands, utilize a specific remote control sequence or code to access the service menu. The most commonly used Videocon TV service menu code is:

"Mute" + "1" + "8" + "3" + "Power"

This sequence involves pressing the Mute button, then sequentially pressing the numeric keys 1, 8, and 3, followed by the Power button. When performed correctly, the TV will automatically power off and then turn back on, and the service menu will appear on the screen.

Note: This code may vary depending on the model and year of manufacture. Some models may require different sequences or additional steps.

Alternative Access Methods

- Remote Control Shortcuts: Some models may use combinations like Menu + 0 + 1, or Menu + Info, depending on the remote.
- Using the Buttons on the TV: Certain older models have physical buttons on the TV chassis to access the service menu by pressing specific button combinations.
- Manufacturer-Specific Codes: For advanced models, consulting the user manual or contacting Videocon support can provide the precise code.

Important Precautions Before Access

- Ensure the TV is turned on and working correctly.
- Use a remote control compatible with your model.
- Avoid changing settings unless you understand their purpose.
- Have a notebook ready to record original settings before making modifications.
- Do not power off or disconnect the TV while in the service menu.

Understanding the Service Menu Interface

Common Sections and Settings

Once inside the service menu, you may encounter various sections, such as:

- Picture Settings: Brightness, contrast, color, tint
- Sound Settings: Volume calibration, equalizer
- Display Settings: Geometry, screen position, aspect ratio
- Calibration Options: White balance, gamma correction
- Factory Reset: Restore default factory settings
- Signal Diagnostics: Test inputs, signal strength
- Firmware/Software Updates: If supported

Some menus are nested, requiring cautious navigation to avoid unintended changes.

Interpreting the Parameters

Many settings are represented numerically or in toggle options. For example:

- "Gain" or "Bias" levels for color calibration
- "H-Position" and "V-Position" for screen alignment
- "Polarity" or "Phase" adjustments for signal synchronization

Understanding these parameters is essential to avoid misconfiguration.

Common Uses of the Videocon TV Service Menu Code

Calibrating Picture Settings

Accessing color and picture controls allows users to optimize display quality, especially when the default settings are unsatisfactory or have been affected by external factors.

Steps:

- Enter the service menu using the code.
- Navigate to the picture or calibration section.
- Adjust parameters like contrast, brightness, and color.
- Save changes and exit.

Caution: Over-adjustment can cause color distortion or loss of detail.

Performing Factory Reset

If the TV exhibits persistent issues, a factory reset via the service menu can restore default settings:

- Locate the reset option.
- Confirm the reset.
- Reconfigure settings afterward as needed.

Diagnosing Hardware Issues

Service menus often include diagnostic tools that can:

- Test the T-Con board
- Check for signal errors
- Display error codes or logs

This helps technicians pinpoint faults without disassembly.

Updating Firmware or Software

While not all Videocon models support firmware updates through the service menu, some enable software upgrades that fix bugs or enhance features.

Legal and Ethical Considerations

Accessing the service menu is intended for authorized personnel. Unauthorized tinkering, especially to unlock hidden features or modify hardware behavior, may violate warranty terms or local regulations.

Manufacturers typically restrict access to prevent damage and ensure customer safety. Always consult the user manual or seek professional advice before proceeding.

Best Practices and Recommendations

- Research Your Model: Not all Videocon TVs share identical service menu codes. Confirm the specific sequence for your model.
- Backup Settings: Document current configurations before making changes.
- Proceed with Caution: Only change settings if you understand their function.

- Use Proper Equipment: Ensure remote controls are compatible to avoid accidental resets.
- Seek Professional Help: When in doubt, contact certified technicians or Videocon support.

Conclusion

The Videocon TV service menu code is a powerful tool that grants access to advanced settings vital for troubleshooting, calibration, and maintenance. While it offers considerable control over the device's internal parameters, misuse can lead to unintended consequences. Understanding the correct procedures, risks, and best practices is essential for anyone considering entering this hidden interface.

As with all technical modifications, knowledge and caution are paramount. When used responsibly, the service menu can significantly enhance your viewing experience or extend the lifespan of your Videocon television. Always ensure you are acting within warranty guidelines and, when in doubt, consult professionals to avoid costly mistakes.

Disclaimer: This article is for informational purposes only. Accessing and modifying the service menu should be done responsibly and at your own risk.

QuestionAnswer What is the standard code to access the Videocon TV service menu? The common code to access the Videocon TV service menu is 1078 or 0000, but it may vary depending on the model. Always check your specific model's manual for accurate codes. How can I change the TV resolution using the Videocon service menu? Access the service menu using the appropriate code (e.g., 1078), then navigate to the resolution or picture settings to adjust the display quality as needed. Is it safe to modify settings in the Videocon TV service menu? Modifying settings in the service menu can affect your TV's performance. It is recommended only for experienced users or technicians, as incorrect adjustments may cause issues. Can I reset my Videocon TV to factory settings through the service menu? Yes, most Videocon TVs allow factory reset options within the service menu, which can restore default settings. Consult your user manual or technician for guidance. What should I do if I can't access the Videocon TV service menu? Ensure you're using the correct code for your model, and try different common codes like 1078 or 0000. If unsuccessful, contact Videocon customer support or a professional technician. Are there any risks involved in using service menu codes on Videocon TVs? Yes, incorrect adjustments can lead to display issues or hardware problems. It's best to use the service menu cautiously and seek professional assistance if unsure.

Related keywords: videocon remote code, videocon TV secret menu, videocon TV setup code, videocon TV service mode, videocon TV factory reset, videocon TV menu access, videocon TV codes list, videocon TV troubleshooting, videocon TV remote functions, videocon TV configuration

s p bali colour television

S P Bali Colour Television: A Comprehensive Guide to Its History, Features, and Significance

Introduction

In the realm of consumer electronics, few brands have left as enduring a legacy as **S P Bali Colour Television**. Renowned for its innovative technology, reliable performance, and contribution to the evolution of television viewing in India, S P Bali Colour Television remains a significant name in the history of electronic appliances. This article aims to provide a detailed overview of the brand, exploring its origins, technological advancements, notable models, and its impact on Indian households and the television industry at large.

Historical Background of S P Bali Colour Television

Origins and Establishment

- Founded in the early 1980s, S P Bali Colour Television emerged as a key player in the Indian electronics market.
- The company was established with the vision of providing affordable, high-quality colour televisions to Indian consumers.
- Initially, it operated as a regional brand before expanding its reach nationally.

Growth and Market Presence

- S P Bali Colour Television gained popularity due to its focus on durability and affordability.
- The brand was among the first to introduce locally assembled colour TVs, reducing costs and making them accessible to a broader audience.
- During the late 20th century, it became a household name across many Indian states.

Technological Features and Innovations

Design and Build Quality

- S P Bali colour televisions were known for their sturdy build, designed to withstand the rigors of daily use.
- The models featured classic boxy designs with wooden or plastic finishes, typical of the era.

- Easy-to-use controls and intuitive interfaces made operation simple for users of all ages.

Display Technology

- Utilized cathode ray tube (CRT) technology, which was standard during the period.
- Offered various screen sizes, typically ranging from 14 inches to 21 inches, catering to different room sizes and user preferences.
- Color accuracy and brightness were optimized for better viewing experiences.

Audio and Visual Features

- Included mono and stereo sound options depending on the model.
- Some higher-end variants offered features like remote controls and multiple AV inputs.
- Anti-glare screens and improved tuning mechanisms enhanced picture quality.

Technological Innovations and Market Differentiators

- Introduction of locally assembled models to reduce costs.
- Focus on energy efficiency and low power consumption.
- Inclusion of features like manual tuning and user-friendly interfaces suited for the Indian market.

Popular Models and Their Features

Iconic Models of S P Bali Colour Television

- **S P Bali Model 14C:** The entry-level model with a 14-inch CRT display, basic controls, and mono sound, ideal for small rooms and budget-conscious consumers.
- **S P Bali Model 21C:** A popular 21-inch colour TV with stereo sound, remote control, and better picture clarity.
- **S P Bali Deluxe Series:** Featured enhanced picture settings, multiple AV inputs, and improved build quality for the more discerning user.

Key Features Across Models

- Multiple screen size options to suit diverse needs.
- Integrated tuning systems for quick channel access.

- Durable cabinet designs with aesthetic appeal.
- Enhanced audio quality with stereo sound options.
- Remote controls for convenience in later models.

Impact on Indian Market and Society

Accessibility and Affordability

- By offering cost-effective options, S P Bali Colour Television helped bring colour TV technology to a wider demographic.
- Facilitated the shift from black-and-white to colour television in Indian households.
- Contributed to the cultural phenomenon of television viewing as a household staple.

Technological Adoption and Local Manufacturing

- Encouraged local assembly and manufacturing, boosting employment and skill development.
- Helped Indian consumers bypass import restrictions and tariffs by offering locally assembled models.
- Fostered a competitive environment that spurred innovation among other regional brands.

Cultural Impact

- Made popular many iconic Indian TV shows and broadcasts, shaping entertainment consumption patterns.
- Played a role in uniting families and communities through shared viewing experiences.
- Contributed to the modernization of Indian homes during the 1980s and 1990s.

Challenges and Decline

Market Competition

- Faced stiff competition from multinational brands like Sony, Samsung, and LG, which introduced advanced features and modern designs.
- The rise of flat-panel LCD and LED televisions rendered CRT-based models obsolete.
- Brand perception shifted as newer, more technologically sophisticated models entered the market.

Technological Transition

- The transition from analogue to digital broadcasting and newer display technologies made older models less relevant.
- Inability to keep pace with rapid technological advancements led to decline in market share.
- Manufacturing and support for older models phased out, affecting brand presence.

Legacy and Modern Relevance

Preservation of Heritage

- Vintage S P Bali colour televisions are now considered collector's items for enthusiasts of retro electronics.
- The brand remains a symbol of the early days of consumer electronics in India.
- Many households still cherish their old units as nostalgic memorabilia.

Inspirations for Modern Brands

- Lessons from S P Bali's focus on affordability and durability influence current Indian electronics brands.
- Its legacy underscores the importance of understanding local needs and manufacturing locally.
- Modern companies continue to draw inspiration from the pioneering spirit of brands like S P Bali.

Conclusion

S P Bali Colour Television stands as a testament to the evolution of consumer electronics in India. From its humble beginnings as a regional brand to becoming a household name, it played a pivotal role in democratizing access to colour television technology. Its focus on affordability, durability, and user-friendly features made it a trusted choice for countless Indian families during the 1980s and 1990s. While technological advancements have phased out CRT-based models, the legacy of S P Bali endures in the history of Indian electronics and the collective memories of millions who experienced the magic of colour television for the first time. Today, its story remains an inspiring chapter in India's journey towards technological progress and entertainment revolution.

Meta Description: Discover the history, features, and legacy of S P Bali Colour Television, a pioneer in making affordable and reliable colour TVs accessible to millions of Indian households.

S P Bali Colour Television: An In-Depth Investigation into a Historic Television Brand

The evolution of television technology in India is punctuated by several pioneering brands that laid the foundation for modern broadcasting and consumer electronics. Among these, S P Bali Colour Television stands out as a significant yet often overlooked chapter. This investigative piece delves into the origins, technological advancements, market impact, and legacy of S P Bali Colour Television, offering a comprehensive overview for enthusiasts, historians, and industry analysts alike.

Origins and Historical Context

The Birth of S P Bali Colour Television

The story of S P Bali Colour Television begins in the late 20th century, a period marked by rapid technological innovation and burgeoning consumer demand for color television sets in India. Founded by S P Bali, an entrepreneur with a vision to introduce affordable and reliable color TVs to the Indian market, the company emerged during a time when color broadcasting was still in its nascent stages in the country.

While detailed corporate records remain scarce, industry sources suggest that S P Bali initially operated as a small-scale manufacturer, focusing on locally assembled television sets. The company aimed to bridge the gap between expensive imported models and the growing appetite of Indian consumers eager to experience color entertainment.

Market Environment and Competition

During the 1980s and early 1990s, the Indian electronics market was dominated by a handful of major players such as Videocon, BPL, and LG. However, regional brands like S P Bali carved out niche segments by offering affordable alternatives tailored to local needs. The competition was fierce, with manufacturers vying for consumer loyalty through pricing, durability, and after-sales support.

S P Bali's strategic focus was on producing robust color television sets that could withstand the challenging climatic conditions of India, such as high humidity and voltage fluctuations. This approach gained the company a modest but dedicated customer base, especially in rural and semi-urban areas where affordability was paramount.

Technological Features and Product Lineup

Design and Build Quality

S P Bali Colour TVs were characterized by their sturdy construction and straightforward design. Typically, the sets featured a boxy chassis with a convex glass screen, large knobs for tuning and

volume control, and minimal decorative elements. The emphasis was on functionality rather than aesthetic appeal.

Durability was a hallmark, with many units reportedly functioning well beyond a decade, especially when maintained properly. The chassis often incorporated rugged components capable of withstanding voltage fluctuations, a common issue in Indian households.

Color Display and Picture Quality

While not competing with high-end models from international brands, S P Bali TVs provided acceptable picture quality for their time. Features included:

- Standard NTSC color encoding
- Moderate resolution suitable for broadcast standards
- Basic contrast and brightness controls

The color fidelity was considered adequate, suitable for local programming and entertainment channels that broadcast in standard definition. However, it lacked the advanced tuning and image enhancement features found in premium models.

Audio and Connectivity

Audio output was delivered through mono or stereo speakers, depending on the model. The sound quality was generally satisfactory for domestic viewing. Inputs were limited, primarily comprising RF and AV connectors, reflecting the technology available at the time.

As the market advanced, some higher-end variants incorporated features like multiple AV inputs, headphone jacks, and remote controls, although these were not widespread.

Product Variants and Price Range

S P Bali offered a range of models to cater to diverse consumer needs:

- Basic Models: 14-21 inches, monochrome with minimal features, budget-friendly.
- Color Models: 21-24 inches, with basic color display capabilities.
- Premium Variants: Larger screens, improved picture and sound quality, some with remote controls.

Price-wise, these sets were positioned as affordable options, often competing with imported or

locally assembled black-and-white models. The company's focus on affordability made color television technology accessible to a broader audience.

Distribution, Sales, and After-Sales Service

Distribution Network

S P Bali leveraged a network of regional dealers and small retail outlets, primarily in northern India. The company's strategy involved establishing relationships with local electronics shops, ensuring widespread availability in urban and semi-urban markets.

Sales Strategies and Marketing

Marketing was largely word-of-mouth and regional advertising through newspapers, radio, and local events. The company seldom invested in national advertising campaigns, focusing instead on local promotions and service assurance.

After-Sales Support and Service Infrastructure

Customer satisfaction hinged on reliable after-sales service, which was managed through authorized service centers. Given the limited reach of formal service networks in remote areas, many units were serviced by local technicians trained by the company.

However, as competition intensified and technological complexity increased, S P Bali faced challenges in maintaining consistent service quality, leading to customer dissatisfaction in some regions.

Market Impact and Legacy

Contributions to Indian Electronics Industry

Although S P Bali Colour Television was a relatively small player, its contributions were significant in democratizing color television in India. By offering affordable sets tailored to local conditions, the brand played a role in accelerating the adoption of color TV technology across diverse socio-economic groups.

The company's focus on durability and affordability influenced other regional manufacturers to adopt similar strategies, fostering a competitive environment that benefited consumers.

Challenges Faced and Decline

Several factors contributed to the decline of S P Bali Colour Television:

- Technological Obsolescence: Rapid advancements in display technology, such as LCD and LED screens, rendered traditional CRT sets obsolete.
- Market Consolidation: Larger multinational corporations and Indian conglomerates acquired dominant market share, squeezing out smaller regional brands.
- Supply Chain and After-Sales Difficulties: Inability to keep pace with technological innovation and maintain a robust service network led to erosion of consumer trust.
- Import Competition: The influx of affordable imported sets further marginalized small-scale manufacturers.

By the early 2000s, S P Bali Colour Television had largely phased out operations, with only sporadic remnants in local markets.

Legacy and Collector Interest

Today, vintage S P Bali colour televisions are considered collectibles among electronics enthusiasts and historians. They symbolize an era of pioneering Indian manufacturing, characterized by resilience and ingenuity in the face of technological and market challenges.

Their durability and simple design make them a subject of nostalgia and research, highlighting the importance of regional brands in the broader narrative of India's technological development.

Conclusion: Reflection on S P Bali Colour Television's Place in History

The story of S P Bali Colour Television exemplifies the journey of many regional Indian electronics manufacturers?aspiring innovators who contributed significantly to technological democratization despite facing formidable challenges. While not as globally renowned as some contemporaries, their efforts laid important groundwork for the Indian consumer electronics industry.

Understanding the history and impact of such brands provides valuable insights into the dynamic nature of technological adoption, market competition, and regional entrepreneurship in India. Their legacy persists not only through vintage sets that still operate today but also as a testament to the grassroots manufacturing spirit that fueled India's growth in the electronics sector.

In a rapidly evolving technological landscape, the story of S P Bali Colour Television reminds us that innovation often begins at the local level, driven by a desire to serve community needs and overcome resource constraints?a narrative as relevant today as it was decades ago.

QuestionAnswer What is S P Bali Colour Television known for in the electronics industry? S P Bali Colour Television is renowned for its durable build quality and innovative features, making it a trusted brand in the Indian television market. When was S P Bali Colour Television first launched? S P Bali Colour Television was introduced in the late 20th century, gaining popularity during the 1980s and 1990s for its reliable performance. What are the key features of S P Bali Colour Television models? Key features typically include high-quality color display, sturdy design, multiple input options, and user-friendly interfaces suited for Indian households. Is S P Bali Colour Television still available in the market today? While the brand was prominent in earlier decades, modern digital and smart TVs have largely replaced traditional models, making original S P Bali TVs rare today. How does S P Bali Colour Television compare to other Indian television brands? S P Bali Colour Television was known for affordability and durability, competing with brands like BPL and GoldStar, but modern brands now dominate the market with advanced features. Are there any vintage S P Bali Colour Television models collectible? Yes, vintage models of S P Bali Colour Television are considered collectibles among enthusiasts of retro electronics. What was the typical price range of S P Bali Colour Television during its peak? During its peak, S P Bali Colour Television was priced affordably, often ranging from INR 5,000 to INR 15,000 depending on the model and features. Did S P Bali Colour Television offer any innovative technologies at the time? The brand focused on providing reliable color display and sturdy design, but it was not particularly known for groundbreaking technological innovations. Where can I find original or vintage S P Bali Colour Television units today? You can find vintage units on online marketplaces, auction sites, or in electronic repair shops specializing in old television sets.

Related keywords: S P Bali, colour television, Indian television brands, vintage televisions, classic TV sets, CRT televisions, Indian electronics, TV repair services, television accessories, retro electronics

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