Model 515 Video/Audio Switching System Installation and Operation Instructions

Description and Application

The Model 515 is a high performance switching system for video components. It provides an inexpensive, convenient way to switch between up to five video components having line-level outputs (composite video & stereo audio). These may include products such as TV tuners, video disc players, satellite receivers and, of course VCRs. The signal from the selected video/audio component appears at the output of the 515, unaltered by its passive circuitry, and completely free of "crosstalk" or video bleed-through from the unselected components.

The 515 can also be used to switch the RF output of video components (typically channel 3 or 4), for use with television sets lacking direct video and audio inputs. However, a 515 must be used for switching either RF or line-level signals; <u>one unit cannot do both.</u>

The 515 is small for ease of placement. Its design flexibility allows it to sit on a shelf (freestanding); to be fastened to a shelf or other surface (cabinet-mounted); or to be flush-mounted via the front panel. For applications requiring a vertical front panel orientation, a Model 515V is also available.

Feature Summary

- 5 IN : 1 OUT configuration selects the line-level output of one of 5 video components.

- optionally selects between RF signals modulated over TV channels 2-4.

- First quality parts, design, and construction for years of dependable service.

- Passive circuitry & extensive signal shielding for high signal integrity.

- Three cabinet mounting configurations for optimum placement flexibility.

Installation

Select a convenient place to locate the 515, bearing in mind the location of the video components to which it will be connected and the respective paths that their connecting cables must follow.

As stated above, the 515 may simply sit on a shelf, on top of another component, or on any other surface. However, in applications requiring a more permanent installation, the 515 may be secured by either of two mounting methods.

Cabinet Mounting

The Model 515's metal cabinet provides "keyhole style" slots to enable it to be secured to most any flat surface using two #6 x 3/4" flat head screws as follows:

- Use the enclosed template as a guide and mark the placement of the two mounting screws.

- Drive the mounting screws to within approximately 1/4" of the mounting surface.

- Test the fit of the 515 by positioning the larger diameter portion of the keyhole slots over the screws, then sliding the cabinet back to lock into place.

- If necessary, adjust the space between the screw head and the mounting surface until there is just enough clearance for a snug fit.

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Panel Mounting

The Model 515 may also be flush mounted with its cabinet and connecting cables hidden behind the fixture into which it is to be installed. For this type of mounting, use the enclosed template to determine a convenient location for the 515 and the required cutout for its cabinet. Follow the steps below:

* Use the template to mark and cut a rectangular cutout of 1-7/8" (48mm) by 7-1/8" (180mm) in the surface of the fixture to contain the 515.

* Remove rubber feet from 515 cabinet if necessary, and insert 515 into the cutout.

* Devise a method of supporting and securing the 515 from behind the fixture, such as common L-brackets.

Line-Level Connections

All hookup connections for the Model 515 are located on the rear panel and accept standard RCA audio/ video patch cords. If you choose to fabricate your own made-to-measure patch cables, use the best available video/audio transmission cable and connectors. Our unique Excellerator Cable™ and matching solderless RCA plugs combine optimum performance with fast, convenient fabrication.

* Connect the composite video outputs from up to 5 video components to the 515 rear panel jacks marked VIDEO 1 -5.

* Connect the respective pairs of audio outputs to the 515's AUDIO 1 - 5 jacks.

* Connect the 515's VIDEO OUTPUT and stereo AUDIO OUTPUTS to the line-level inputs of the video component intended to receive the selected source.

RF Connections

When using the 515 to switch the RF outputs of video components, connect them to the rear panel jacks marked VIDEO 1 -5. Connect the 515's VIDEO OUTPUT jack to the VHF antenna input of a television set, video tuner, etc. Use 75 ohm coaxial cable (RG-59 or equivalent) and install good quality RCA plugs or adapters on the end connected to the 515. DO NOT attempt to run both line-level video/audio and RF signal on the same 515.

Operation

The 515 is extremely simple to use. Since its circuitry is entirely passive, there is no ON/OFF switch. Pressing a given front panel push-button selects that product to play. Selecting another product automatically disconnects your previous selection.

Testing

Once all connections are complete, check the operation of the 515 by selecting each of the 5 video product sources on at a time. If everything has been properly connected, selecting a source component on the 515 should provide video and audio performance comparable to a direct connection. The 515 is designed to route the selected video source without noticeable loss, distortion, or signal degradation.
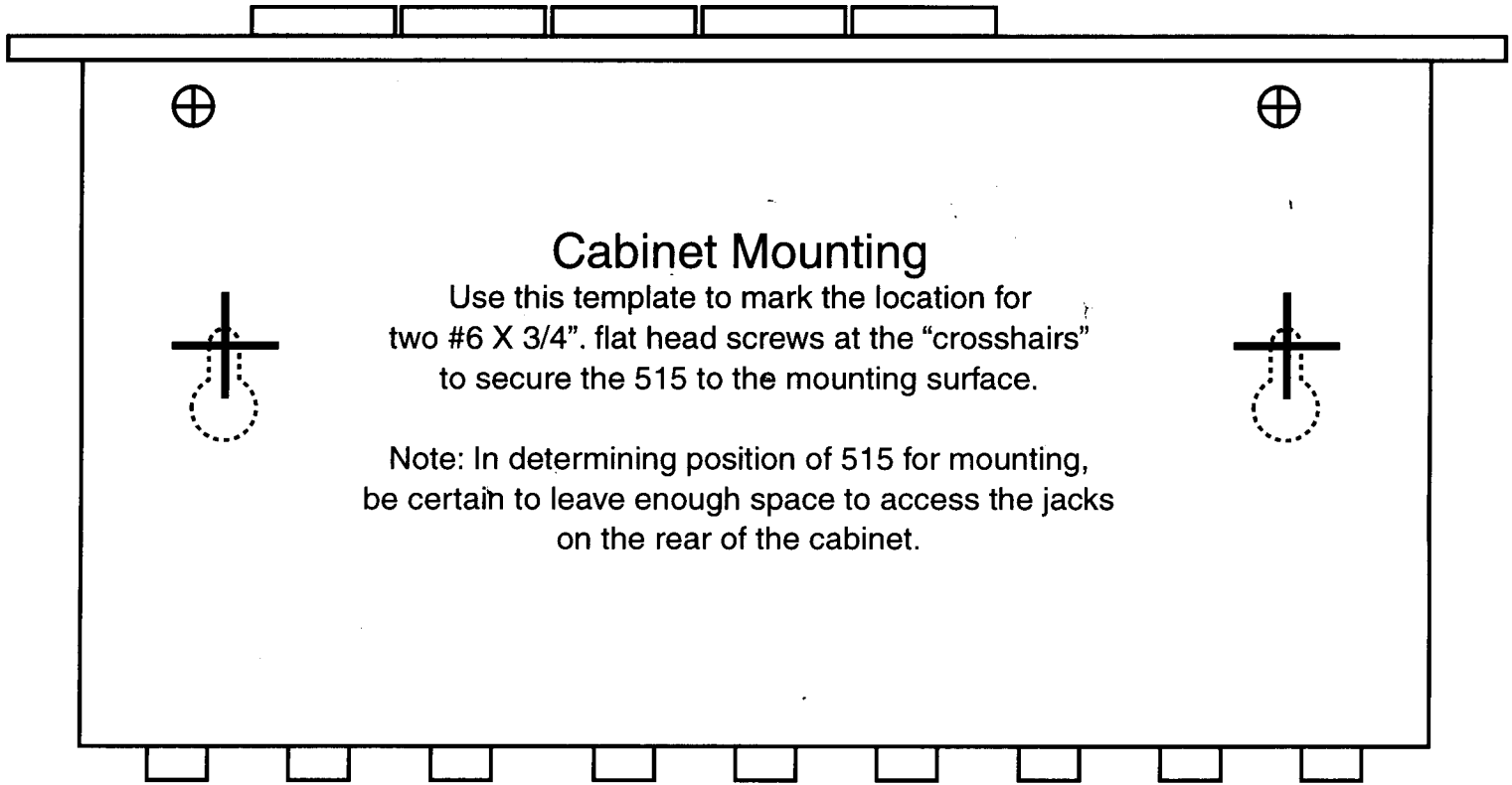
Troubleshooting

Nearly all difficulties in using the 515 can be traced to the cables that connect it to the video products. If you encounter any problems, first look for defective patch cables or incorrect connections. For example, if there is no picture with any select video product, one would check the connection between the 515's VIDEO OUTPUT and the destination video product's inputs. If a problem appears isolated to just one of the five source products, check the connections between that product and the 515.

If You Need Assistance

If after checking all your connections and cables, you are still having difficulty, please call our Technical Services Department toll-free for additional assistance at 800-322-8346.

Model 515 Mounting Templates

Cabinet Mounting

Use this template to mark the location for
two #6 X 3/4". flat head screws at the "crosshairs"
to secure the 515 to the mounting surface.

Note: In determining position of 515 for mounting,
be certain to leave enough space to access the jacks
on the rear of the cabinet.

Panel Mounting

Use this template to determine the location of the 1-7/8" H X 7-1/8" W cutout
for the 515 cabinet. The solid line represents the mounting hole,
and the dotted line represents the 515's front panel.