

3. Repeat step two for components B, C, and D. You should be able to view and hear each of these as you depress the appropriate MONITOR button.
4. The above steps verify that each component's output is connected properly to the VSA-1.
5. Depress button A under FROM C TO. If everything is properly connected, you should be able to make a copy from the VIDEO DISC to the VCR A.
6. Depress button B under FROM A TO. You should be able to make a copy from VCR A to VCR B.
7. Depress button B under FROM D TO. You should be able to record from your COMPONENT TV TUNER to your VCR B.

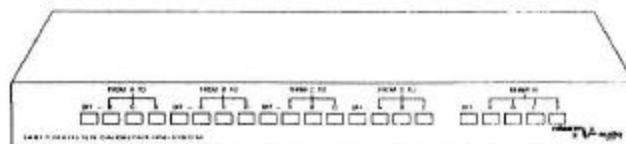
USING THE VSA-1 WITH A STANDARD TELEVISION

Figure #2 shows one way of connecting your components if you are using a standard television set. You will need to purchase a coaxial A-B switch and an RF Modulator (such as the Niles Audio VM-1000).

Again, for maximum flexibility, it may be necessary to use an RF switcher in conjunction with the VSA-1. This would be necessary if you wished to watch one tv broadcast while recording another.

VSA - 1

INSTRUCTION MANUAL



FEATURES

When used in conjunction with a component television system the VSA-1 eliminates the problem of having to connect and disconnect a maze of wires and cables every time you want to use your equipment in different ways.

Routes both the direct video and stereo audio signals of your video components.

Accepts inputs and outputs from up to 4 direct-video/stereo-audio devices.

Enables you to monitor one component while simultaneously recording, dubbing, or processing with your other components.

Enables you to connect the audio output of your video components to your stereo high fidelity system. So, while you watch your video devices on your monitor you can simultaneously listen to the sound over your hi-fi system.

High quality self cleaning switches provide reliable switching and signal isolation that will last for many years.

Deluxe, all metal enclosure insures durability, as well as shielding from interference.

NOT AN RF SWITCHER

The VSA-1 should not be confused with an RF switcher. An RF switcher connects to a video component at its antenna connection and RF output connection. The VSA-1 connects to the same component through its video and audio input and output jacks. The signals from the video and audio jacks are "cleaner" than those from the RF jacks. Therefore, connecting your various components through a direct switcher provides for much better video and audio quality than patching through an RF switcher. This is not to say that an RF switcher is never needed. For maximum system flexibility, you may still need an RF switcher. This would be the case if you want to be able to route the signals from your antenna or cable tv decoder into your component television tuner. But for viewing, dubbing, and processing, the VSA-1 switcher is, without question, the way to go.

SINCE EVERYONE HAS DIFFERENT COMPONENTS, ALL POSSIBLE USES AND HOOKUPS OF THE VSA-1 CANNOT BE COVERED IN THIS MANUAL. THEREFORE, GENERAL OPERATING INSTRUCTIONS WILL BE GIVEN AND A "TYPICAL SYSTEM" WILL BE USED IN OUR EXAMPLES.

INTRODUCTION

The Niles Audio VSA-1 is a passive video/audio matrix switcher designed to assist the component tv, stereo VCR, video disc, and satellite receiver owner with his hookup and interconnection problems. The unit patches both the direct video and stereo audio signals and permits dubbing, monitoring, and signal processing by simply pressing a few buttons. The unit's video output is designed to connect directly to a component television monitor and the stereo audio outputs are designed to connect to a hi-fi receiver. Use of the VSA-1's full capacity would involve a component tv tuner, video monitor, high fidelity system, and any three other video components such as a VCR, video disc player, satellite receiver, or video/audio processor. In figure #1, the "typical system" is made up of a component tv tuner, video monitor, 2 vcr's,

video disc player, and a hi-fi receiver. By simply pressing one of the buttons under the MONITOR section, any one of the four components may be viewed on the monitor and heard over the hi-fi system. What's more, any component may be patched to any other component. Before, the process of dubbing or signal processing was a frustrating task of rearranging wires and patchcords. Now, what had been a real hassle has been simplified to just pushing a few buttons. In figure #1, making a tape copy from one vcr to the other would simply involve pushing a single button.

BASIC INSTALLATION

All connections to and from the VSA-1 are made with male RCA type phono plugs and shielded cable. Double ended cables are available through both audio and video specialty stores or through local TV or electronic parts houses.

Occasionally, some video components may have other than female RCA type phono jacks. In these instances, you must use an adaptor when hooking up.

IMPORTANT NOTES:

MOST VIDEO COMPONENTS COME EQUIPPED WITH A POLARIZED A.C. LINE CORD (ONE PRONG IS WIDER THAN THE OTHER). ALWAYS BE SURE TO PLUG ALL EQUIPMENT IN WITH ITS A.C. CORD PROPERLY ORIENTED.

DO NOT ATTEMPT TO PUSH MORE THAN ONE BUTTON AT A TIME UNDER EACH FROM-TO OR MONITOR GROUP.

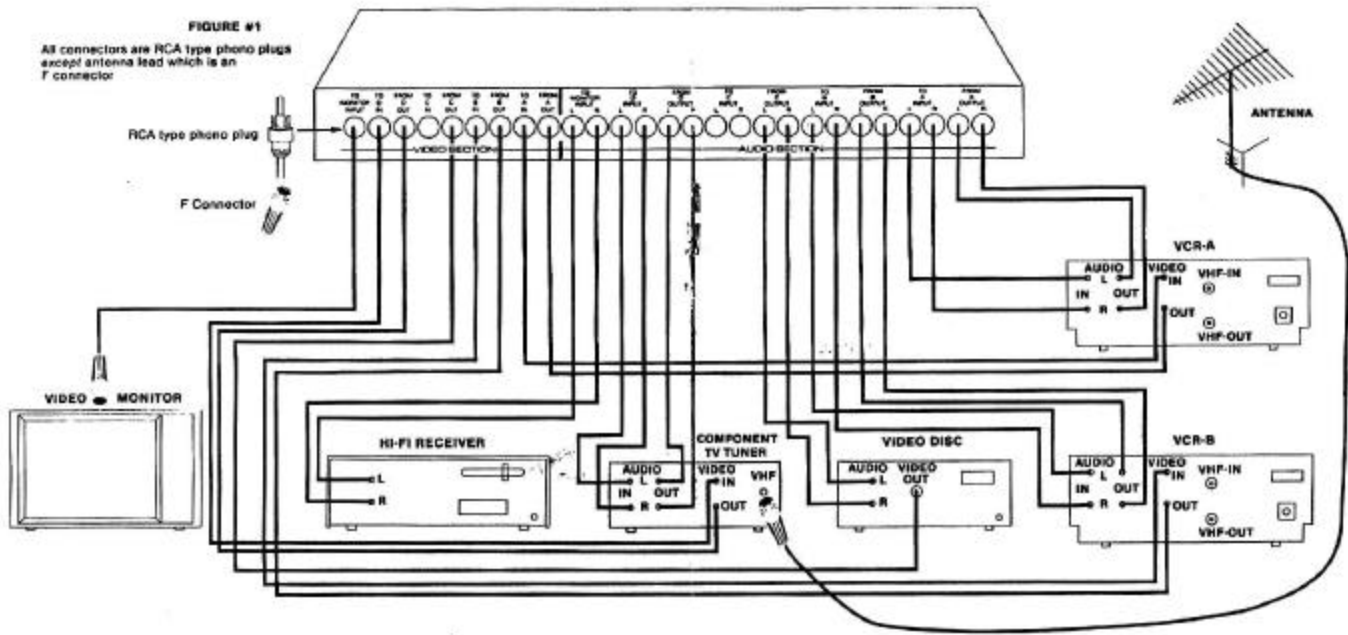
IF ANY OF YOUR COMPONENTS DO NOT HAVE STEREO INPUTS AND OUTPUTS, YOU MUST PLACE A JUMPER BETWEEN THE RIGHT CHANNEL AUDIO INPUT AND OUTPUT JACKS FOR THAT COMPONENT. USE THE LEFT CHANNEL JACKS FOR MONO SIGNALS.

IF YOU ARE USING A VIDEO-ONLY PROCESSOR, YOU MUST JUMPER BOTH THE LEFT AND RIGHT CHANNEL AUDIO INPUTS AND OUTPUTS.

IT WILL BE NECESSARY TO PLACE THE TUNER/LINE (OR TUNER/CAMERA) SWITCH ON YOUR VCR'S TO THE LINE (OR CAMERA) POSITION IN ORDER TO FUNCTION PROPERLY WITH THE VSA-1.

TYPICAL INSTALLATION

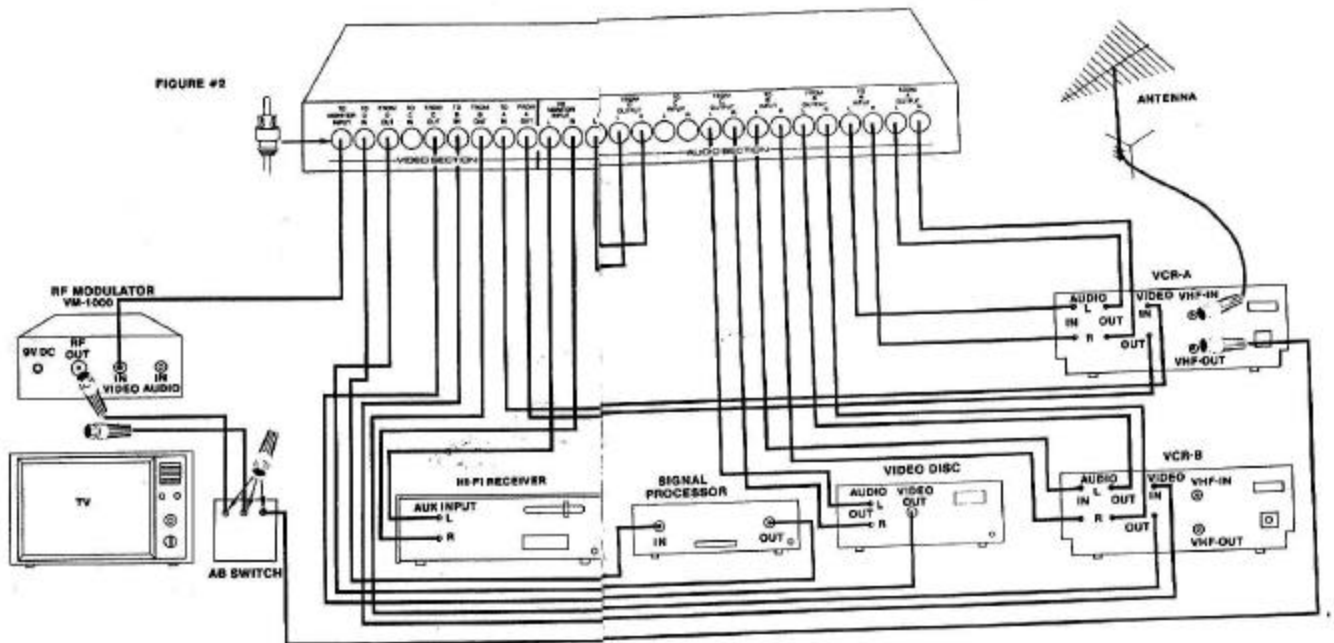
Figure #1 shows the detailed connections of the components discussed above. To simplify hookup, we recommend that you install one component completely before going on to the next. Start with the video section. First, connect the component's video output and then connect its video input. Next, connect the audio outputs and then the audio inputs. If you follow an orderly process, checking after each step, you should have no problems with your installation.



Based on the components from figure #1, hookup is as follows:

COMPONENT	JACK ON COMPONENT	JACK ON VSA-1
VCR (A)	VIDEO OUTPUT	"FROM A OUT"
	VIDEO INPUT	"TO A IN"
	AUDIO OUTPUT LEFT CHANNEL AUDIO OUTPUT RIGHT CHANNEL	LEFT "FROM A OUTPUT" RIGHT "FROM A OUTPUT"
VCR (B)	VIDEO OUTPUT	"FROM B OUT"
	VIDEO INPUT	"TO B IN"
	AUDIO OUTPUT LEFT CHANNEL AUDIO OUTPUT RIGHT CHANNEL	LEFT "FROM B OUTPUT" RIGHT "FROM B OUTPUT"
STEREO RECEIVER	AUX INPUT LEFT CHANNEL	LEFT "TO A INPUT"
	AUX INPUT RIGHT CHANNEL	RIGHT "TO A INPUT"
	AUDIO INPUT LEFT CHANNEL AUDIO INPUT RIGHT CHANNEL	LEFT "TO B INPUT" RIGHT "TO B INPUT"

VIDEO DISC PLAYER (C)	VIDEO OUTPUT (THERE IS NO VIDEO INPUT) AUDIO OUTPUT LEFT CHANNEL AUDIO OUTPUT RIGHT CHANNEL THERE ARE NO AUDIO INPUTS (LEFT OR RIGHT CHANNELS)	"FROM C OUT" NO CONNECTIONS LEFT "FROM C OUTPUT" RIGHT "FROM C OUTPUT" NO CONNECTIONS
COMPONENT TV TUNER (D)	VIDEO OUTPUT VIDEO INPUT AUDIO OUTPUT LEFT CHANNEL AUDIO OUTPUT RIGHT CHANNEL AUDIO INPUT LEFT CHANNEL AUDIO INPUT RIGHT CHANNEL	"FROM D OUT" "TO D IN" LEFT "FROM D OUTPUT" RIGHT "FROM D OUTPUT" LEFT "TO D INPUT" RIGHT "TO D INPUT"
VIDEO MONITOR	VIDEO INPUT	"TO MONITOR INPUT"
STEREO RECEIVER	AUX INPUT LEFT CHANNEL AUX INPUT RIGHT CHANNEL	L. "TO MONITOR INPUT" R. "TO MONITOR INPUT"



THE PUSHBUTTONS AND THEIR FUNCTIONS

1. **MONITOR:**
Each of the 4 video components of figure #1 can be viewed and heard by simply depressing one of the four buttons labeled A, B, C, or D. When not viewing, depress the OFF button.
2. **FROM A TO:**
This series of buttons sends the output of component A to the input of component B, C, or D. Note that the output of component A cannot be sent to the input of itself. This would be an illogical patch and is not permitted. When not sending the output of component A to any other component, depress the OFF button.
3. **FROM B TO:**
This series of buttons sends the output of component B to the input of component A, C, or D. Note that the output of component B cannot be sent to the input of itself. This would be an illogical patch and is not permitted. When not sending the output of component B to any other component, depress the OFF button.
4. **FROM C TO:**
This series of buttons sends the output of component C to the input of

component A, B, or D. Note that the output of component C cannot be sent to the input of itself. This would be an illogical patch and is not permitted. When not sending the output of component C to any other component, depress the OFF button.

5. **FROM D TO:**
This series of buttons sends the output of component D to the input of component A, B, or C. Note that the output of component D cannot be sent to the input of itself. This would be an illogical patch and is not permitted. When not sending the output of component D to any other component, depress the OFF button.

TESTING THE INSTALLATION

1. Check to see that all components are turned on and playing.
2. If you have the same assortment of components as described in figure #1, you should be able to view and hear VCR A when you depress the MONITOR A button.