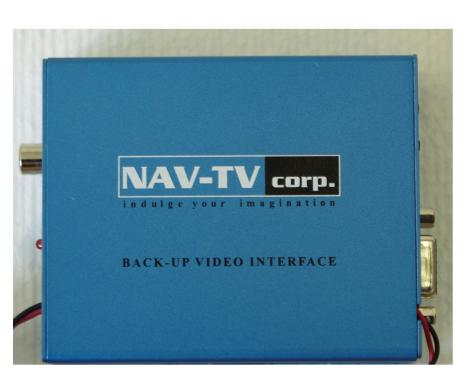


indulge your imagination

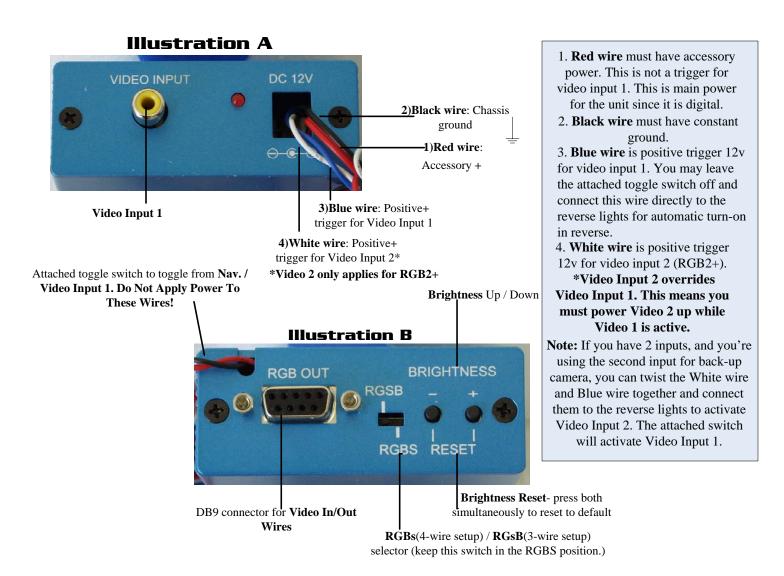
RGB2(+) Installation Instructions



Thank you for purchasing this NAV-TV product. Please obey all laws and regulations when installing and using our products. By purchasing our products, you agree that NAV-TV cannot be held liable for any tickets or accidents caused by the driver's lack of attention. Our products are intended for off-road use and passenger entertainment only.



RGB2/RGB2+ INSTRUCTIONS



DB9 Connector

	Input (Nav. Computer)	Output (Screen)
Red Video	Yellow Wire	Red Wire
Green Video	Green Wire	Blue Wire
Blue Video	Orange Wire	Purple Wire
Sync	Brown Wire	*Black Wire
*Shield	*Dark Gray Heatshrink	

*Do not mistake the dull gray heatshrink for the shiny black sync output wire.

Questions? Need vehicle-specific wiring information? Tech support available through our toll-free number-1-866-477-3336



NAV-TV Back-Up Camera Interface Instructions Video In / Out Connections

There are 4 video wires, called RGBS wires on almost every factory navigation screen – **Red** video, **Green** video, **Blue** video and Sync). The fifth wire that is needed is the video shield. Not ground, but video shield.

Use a light bulb-type test light and test the wires behind the navigation screen. There are **three wires** that will change the colors on the screen while you probe them. These wires are the **RGB** wires. The **fourth** wire that will make the screen *scroll* or *shift* is the **Sync** wire.

Check to see if you have a wire that turns the screen *yellow*. If you do, you will have to wire it as follows:

On Screen (while probing w/t.light)

Cyan (Aqua)

Magenta (Purple / Redish)

Yellow

Scrolling or Shifting

Shield

Back-Up Cam Interface

Red video wire
Green video wire
Blue video wire

Sync wire Shield

	Input (Nav. Computer)	Output (Screen)
Red Video	Yellow Wire	Red Wire
Green Video	Green Wire	Blue Wire
Blue Video	Orange Wire	Purple Wire
Sync	Brown Wire	*Black Wire
*Shield	*Dark Gray Heatshrink	

*Do not mistake the dull gray heatshrink for the shiny black sync output wire.

If you test the wires between the navigation computer and screen and you see **Red**, **Green** and **Blue** appear on the screen, wire it as follows:

On Screen Back-Up Cam Interface

RedRed video wireGreenGreen video wireBlueBlue video wireScrolling or ShiftingSync video wire

Shield Shield

After you've found all **R**, **G**, **B** and **Sync** wires, cut them. Connect the **Screen side** of the **R**, **G**, **B** and **Sync** wires to the **Output** wires, Red, Blue, Purple and Black. Connect the **Navigation side** of the **R**, **G**, **B** and **Sync** wires to the **Input** wires, Yellow, Green, Orange and Brown.

If you find that you've connected all the wires properly and the video still scrolls, the vehicle might have *two sync wires*. If you find two wires that make the screen scroll, it probably does.

The necessary process for wiring an Interface with a vehicle that has two Sync wires is as follows:

One wire might make the screen scroll vertically after probing or cutting it. We'll call this "Sync 1". Another wire might make the screen scroll horizontally after probing it or cutting it. We'll call this "Sync 2". First, connect Sync 1. If the video scrolls, then jump Sync 2 to Sync 1 on the display side, either directly or through a resistor. You will have to find the resistance value that gives you the best results. Start at about 30 ohms and work your way up to around 100 ohms. Sometimes there is no need for a resistor at all. The navigation side of Sync 2 usually doesn't need to be connected. If the picture is perfect in video input mode, but rolling in normal navigation mode, then you will need to use a relay to have sync 2 normally connected. Once activated, the relay will cut sync 2 and connect it to sync 1 whenever the interface is powered up.

If you're using multiple monitors or displays, you **will** need to use a video amplifier. The Back-Up Cam Interface needs a direct video input.

Power / Ground wires

When making power connections, tap into heavy gauge wires. It is recommended to go straight to the ignition harness whenever having difficulty finding good power sources. Solder all connections.