





## **Used Components:**

# A) DV-M3 Mazda 3 7" Popup LCD



**B) GVN 53** 



C) 1:1 DIN 13 PIN Cable



Important: Take care that all 13 pins are connected 1:1

But you may use also just the connector and a own cable:



D) Small "crimb plugs" for the Garmin c

I used the crimb Plugs from a old CDROM audio connector, you sure know this kind of connector from the old soundcards/CDROMs:

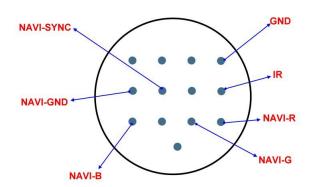






Step 1:
Cut of one end of the DIN 13 pin cable

Step 2:
Select the Pins for RGB:
13-Pin RGB Jack On the Back of Pop-Up Monitor

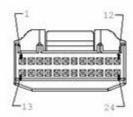






Step 3: Use the CDROM connector crimbs to connect it to the Garmin connector with the follow pin layout:

Pin	Signal	Function
13	Composite Video NTSC	Composite Video Output
	(PAL optional)	
1	Composite Video	Video Ground
	Ground	
14	RGB Video Ground	Video Ground
2	Video Blue	Blue color output
15	Video Green	Green color output
3	Video Red	Red color output
16	Serial RX	RX data
		Data → GVN53
4	Video Sync	RGB composite sync
17	Digital Ground	Digital Ground
5	Serial TX	TX data
		GVN53 →Data
18	IR remote data in	Transceiver NEC data at
		~1.4kHz
6	Audio R	Line level right audio
		output
19	Audio Ground	Audio Ground
7	Audio L	Line level left audio output
20	Video Active	Signal indicating that GPS
		needs the display
8	Mute	Audio mute output
21	Speaker +	Amplified audio speaker +
9	Speaker -	Amplified audio speaker -
22	Not Used	
10	Park Brake Sensor	Park Brake On/Off
23	Not Used	
11	Power Ground	Power Ground
24	Ignition Accessories	12V switched Power
	Power (ACC)	
12	Battery Power	12V constant power







### My connection:

LCD NAVI SYNC -> Garmin Pin 4 Video Sync (RGB)

LCD Navi GND -> Garmin Pin 14 video ground

LCD NAVI B -> Garmin Pin 2 Video Blue

LCD NAVI R -> Garmin Pin 3 Video Red

LCD NAVI G -> Garmin Pin 15 Video Green

## Optional:

LCD GND -> Garmin Pin 17 digital ground

LCD IR -> Garmin Pin 18 IR

#### Here some Pictures:



Please tell me if this works with your GNV53 Unit! Or maybe you have a GNV52 to test it?

#### Mail me:

email@madxmad.de

### My challenge:

I have just the GNV52 but tested this like it would be a GNV53 and get no RGB Video.

### **Possible Reasons:**

- This pinlayouts are wrong and doesn't work for this combination of lcd + garmin GNV?
- This pinlayouts are correct for GNV53 but the GNV 52 has no RGB (my favorite) I heard from some guys that the 52 (like the kenwood unit, which is based on the 52) has RGB on the motherboard, but I would need here more info to pick it from there, please send me if you found some info for the GNV 52 unit: <a href="mail@madxmad.de">email@madxmad.de</a>
- I have the correct pin layout but connected something wrong?

Any other idea? Share it with me: email@madxmad.de