

# Ideegeniali Voicebox Season 3/4 Connections

## **+12V GND**

Connect a 12VDC or 13,8VDC power supply here. Voicebox has internal 1Amp fuse that protects internal circuitry, but please note it's correct practise in car electrical plants to provide yourself a general fuse of some sort before the wires that go into the electrical boards. This general fuse will protect the power distribution wires, that are not protected by internal fuses.

## **S1 S2 S3 S4**

Voicebox has negative switched lamp outputs, so countdown connects like this:

Count down 4 negative lamp wires (black wires) go into S1 S2 S3 and S4 on voicebox.

Count down 4 positive lamp wires (red wires) go altogether to +12V, that is same power supply powering the voicebox.

Please don't connect count down red wires to a power supply that is powered on when voicebox is off, but please use for the countdown the same +12V line as the voicebox, so both countdown and voicebox are powered on together, or powered off together.

## **S10**

S10 is "10th step", it's switched negative, too. It can be ignored if you don't use the 10th step.

Or you can wire to a relay coil. That is relay coil one side to +12V (same power supply as voicebox), other side to S10. This relay will go ON after the count down sequence of the voicebox.

You can then use the relay's switch to power up remaining electronics AFTER the initial sequence.

## **AUDIO**

Connect an audio signal - speaker level or line level - to this audio input, to have the voicebox's 13 steps vumeter react to sounds.

You can go in parallel with left speaker of your car audio or car PC, for example.

Use **Audio input sensitivity** trimmer on board to adjust sensitivity to audio level.

For a speaker-level signal go towards start of scale (counterclockwise), for a line-level signal go towards end of scale (clockwise).

## **DTMF**

Momentary to GND on this input, and the voicebox will do a random dtmf tone for you. Ideegeniali's voicebox works as a dtmf tone generator board, without purchasing a separate dtmf tone generator board: a dtmf generating board is included for free with ideegeniali's voicebox!

Use **DTMF distortion** trimmer on board to adjust dtmf tone playback volume to a level that is not strong enough to cause distortion, usually just keep trimmer half way and it's ok there.

## **COM**

It's reserved for future use: please do not connect anything to COM.

With custom firmware, it can be used for (non exhaustive list): inter-board COMunication, pushbutton input, digital input/output, analog input, trimmer position input, or other functions you read in the user guide accompanying the custom firmware.

## **NORMAL AUTO PURSUIT**

Connect to GND to light up the normal, auto, pursuit lamps inside the voicebox.