

UNIVERSAL MONO PREAMPLIFIER



Total solder points: 29 Difficulty level: *beginner* 1 □ 2 ☑ 3 □ 4 □ 5 □ *advanced*

K1803

This kit has been developed as pre-module for a number of audio applications where there is insufficient input signal. Applications as a microphone pre-amplifier or for level correction.

ILLUSTRATED ASSEMBLY MANUAL

H1803IP-1

Features & Specifications

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SPECIFICATIONS:

- Power supply: 10-30VDC / 10mA.
 Output impedance: 1Kohm.
 Adjustable output level: max. 40dB.
 Frequency range: 20Hz to 20kHz ± 3dB.
 Max. input signal: 40mV.
 PCB dimensions: 30 x 44mm (1.2" x 1.7").

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Assembly hints

1. Assembly (Skipping this can lead to troubles !) Ok, so we have your attention. These hints will help you to make this project successful. Read them carefully.

1.1 Make sure you have the right tools:

- A good quality soldering iron (25-40W) with a small tip.
- Wipe it often on a wet sponge or cloth, to keep it clean; then apply solder to the tip, to give it a wet look. This is called 'thinning' and will protect the tip, and enables you to make good connections. When solder rolls off the tip, it needs cleaning. Ø,

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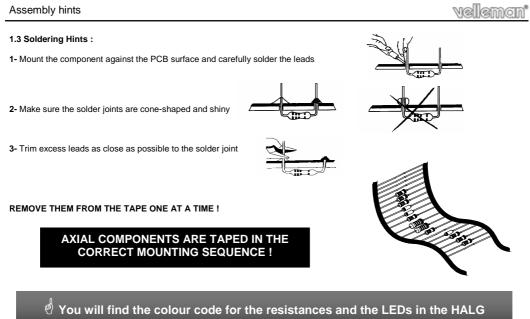
- Thin raisin-core solder. Do not use any flux or grease.
- A diagonal cutter to trim excess wires. To avoid injury when cutting excess leads, hold the lead so they cannot fly towards the eyes.
- Needle nose pliers, for bending leads, or to hold components in place.
- Small blade and Phillips screwdrivers. A basic range is fine.

-(For some projects, a basic multi-meter is required, or might be handy

1.2 Assembly Hints :

- \Rightarrow Make sure the skill level matches your experience, to avoid disappointments.
- \Rightarrow Follow the instructions carefully. Read and understand the entire step before you perform each operation.
- \Rightarrow Perform the assembly in the correct order as stated in this manual
- \Rightarrow Position all parts on the PCB (Printed Circuit Board) as shown on the drawings.
- \Rightarrow Values on the circuit diagram are subject to changes.
- \Rightarrow Values in this assembly guide are correct*
- \Rightarrow Use the check-boxes to mark your progress.
- \Rightarrow Please read the included information on safety and customer service

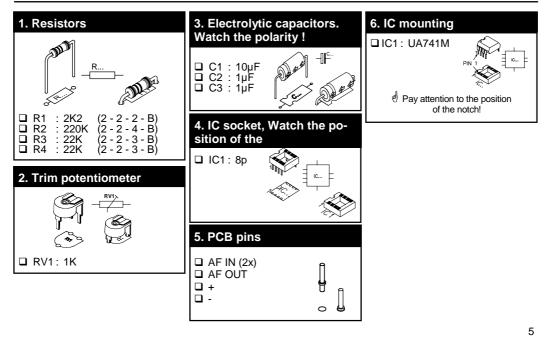
* Typographical inaccuracies excluded. Always look for possible last minute manual updates, indicated as 'NOTE' on a separate leaflet.



(general manual) and on our website: http://www.velleman.be/common/service.aspx

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Construction



Connection

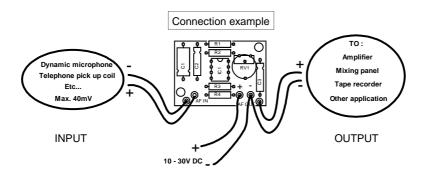
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7. Connection

- Connect a stabilized supply between 10 and 30V with the points "+" and "-" on the print.
 The input is connected on the points "AF IN".
- □ The output is taken between the outer right connection "AF OUT" and the mass "-".

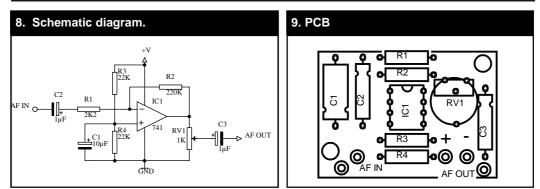
d To connect your in- and output you'd better use a screened wire, this to avoid interferences and rumble.

□ With the trimmer RV1 you can control the output signal between 0 and max.



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Schematic diagram & PCB



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