# Audio_Amplifier

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| | *TITLE* :<br><br>Audio_Amplifier | | |
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# Chapter 1

# Audio_Amplifier

## 1.1 Amiga Audio Amplifier

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Audio Amplifer For Amiga

What you will need:
Veroboard (15 strips by 17 holes)
2 LM386 audio amp IC's
2x8-pin DIL IC sockets
2x10Ohm resistors
1x10kohm logorithmic potentiometer
2 Polyester 0.047uF (micro farad) capacitors
2 PC-mounting 220uF (micro farad) electronic capacitors
2x8Ohm loudspeakers (e.g. cheap pod-mounted car stereo speakers).
1 Simple toggle On/Off switch.
2 Phono plugs and audio cable
Connecting wire 9V battery & clip (or transformer)
Box knob (for volume control).

Misc.

A box to suit.
Four self-adhesive non-slip rubber feat.

Instructions
Cut the veroboard to size with a hacksaw or sharp knife. Make holes in the
copper strips where indicated in the diagram. Make sure that no shards of
copper remain or a short circuit will occur.

Solder the IC sockets in place, and using their posistion as a guide,
solder in the rest of the components and connecting wires. Take long leads
from the circuit to bring to the power supply (battery or transformer - a
battery is best to avoid any mains hum), audio inputs, and audio outputs.

Both audio inputs come from the Amiga and are connected across the
potentiometer using screened audio cable. Remember to put the phono plug
covers on the wires before soldering them! The inputs to the amplifier
circuit are taken from the central pins of the potentiometer (see diagram).
No other connection to the Amiga is required.

The switch is connected in-line with the power supply. You might like to
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add a small LED (perhaps by using a DPDT switch) to remind you that the power is on. Even if the amplifier is not connected to the Amiga or speakers, if the battery is connected power will be used. The loudspeakers can be connected directly via their cables to the circuit board, but it may be better to use some 3.5mm plugs and sockets. This will also provide a little more portability. Mount everything in the box, after drilling holes for the volume control, switch and connection leads. Stick rubber feet on the bottom of the box for a professional finish.

End.

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