

Guitar Mobile Phone Holder

Tools Required To Make this Design:

- Scrolling: Mk1/2 Scroll Former
- Punching: Practical Punch/Shear, (or Master Punch/Shear or XL5+ Power Bender fitted with 3mm punch block & pin)
- Cutting: Practical Punch/Shear (or Master Punch/Shear or XL5+ Power Bender)
- Riveting: Practical RBR
- Bending: Practical RBR
- Rolling: Practical RBR (or Master RBR)

We recommend that before starting you wipe all steel bars down so that they are free of grease, scale or dirt. After cutting any component, we also recommend that you trim the corners for a neater finish, if preferred, unless stated otherwise in the instructions. Use a fine tip marker pen, pencil or scribe for marking hole, bend, scroll, roll points on the bars.

Important Note

Before starting, be aware that this project has been designed for modern large phones like the I-phone (approx. 130mm high x 65mm wide). For smaller style phones you might wish to reduce the length of Components 1, 2 and 4 accordingly.

Component 1 Guitar Base

12mm x 2mm x 500mm

Cut a length of 500mm out of 12mm x 2mm. Then mark hole position H1, roll points R1 & R2 and scroll points S1 & S2 as shown in the Design sheet overleaf. Start by punching the hole at H1. Then using the Mk1/2 Scroll Former, form scroll at one end so that the marks S1 on the steel just touches the segment on the scroll forming tool. Repeat at the end with scrolls S2, taking care that you form a C scroll.

Finally, carefully place component in RBR to roll the curve between points R1 and R2 until you achieve the curvature shown in Template 1.

Component 2 Guitar Neck (x2)

12mm x 2mm x 300mm

Cut two lengths of 300mm out of 12mm x 2mm steel and mark out then scroll points S3 and S4 using the Design sheet overleaf. Take the first length and use the Mk1/2 Scroll Former to form scroll S3 at one end and S4 at the other end using template 2 as a guide to carefully produce a C scroll as shown in Template 2. Repeat with the other length to create to identical C Scrolls.

Component 3 Phone holder upright

10mm x 1.6mm x 190mm

Cut a length of 190mm out of 10mm x 1.6mm and mark out hole positions H1, H2 and H3 as well as bend positions B1, B2, B3 and B4 using the Design sheet overleaf. Start by punching holes H2, H3 and H4. Next bend 90° angles at marks B1 and B2 then reverse the strip and bend another at positions B3 using Template 4 to make sure you have a right angled bend. At B4 set the angle of bend to 115° using Template 5 as your reference.

Component 4 Phone holder horizontal

10mm x 1.6mm x 110mm

Cut a length of 110mm out of a piece of 10mm x 1.6mm. Mark out hole positions H3 and bend positions B5 and B6 using the Design sheet overleaf. Punch the hole H3 and then bend 90° angles at marks B5 and B6 again using template 4 as a guide.

Component 5 Support Legs (x2)

10mm x 1.6mm x 170mm

Cut two lengths of 170mm out of 10mm x 1.6mm and mark out scroll point S5 and hole position H2 shown in the Design Sheet overleaf. Start by punching H2 then scroll the other end to point S5 using the Mk1/2 Scroll Former. Repeat for the other support leg.

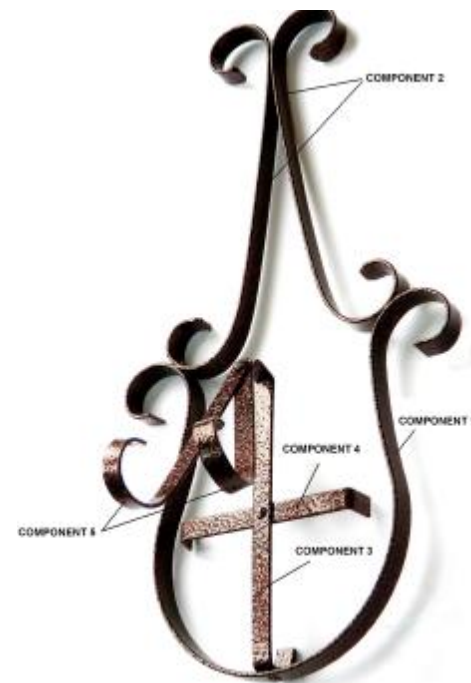
Assembly

Firstly, on a flat surface lay out component 1 and the two component 2's in the shape of a guitar. Mark where the scrolls meet and punch holes at these points and rivet the components together at the three joints.

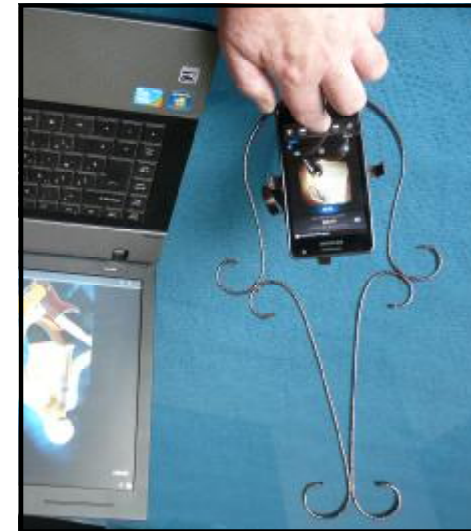
Next rivet components 3 and 4 together at point where the two holes H3 meet. You will have to rivet them so the components are lined up to each other but after riveting you can twist them 90° so they form a cross.

Next line up the two H2 holes in each support leg with the hole H2 in the Phone holder upright (Component 3) and rivet. The support legs can then be splayed out to give a wider base for the weight to rest on.

Finally rivet the phone holder (Component 3) to the Guitar Base (Component 1) and then make any fine adjustments to the manipulation of the support legs and phone holder horizontal before starting any painting.



The finished item can now be painted using a suitable paint for metalwork in a variety of finishes either by aerosol or by brush application. Use the paint manufacturers guidelines on preparation and number of coats.



This modern design is a great way to mount your mobile device to monitor calls and listen to music whilst working at home or at the office.

GENERAL NOTE

metalcraft™

Design Pack

Guitar Mobile Phone Holder

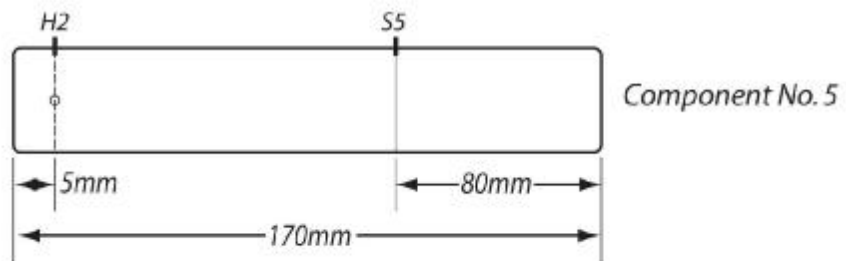
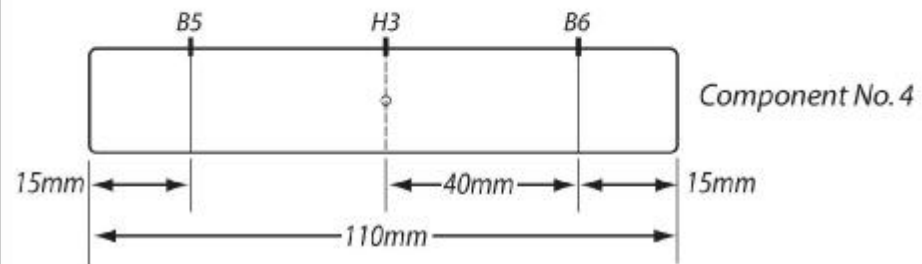
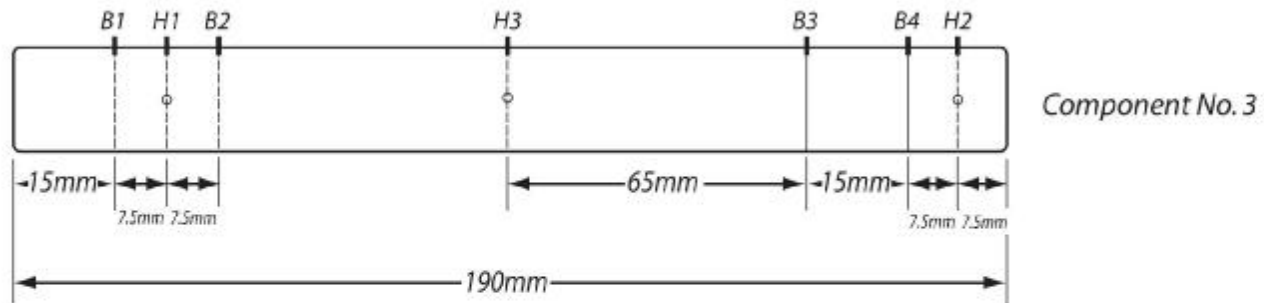
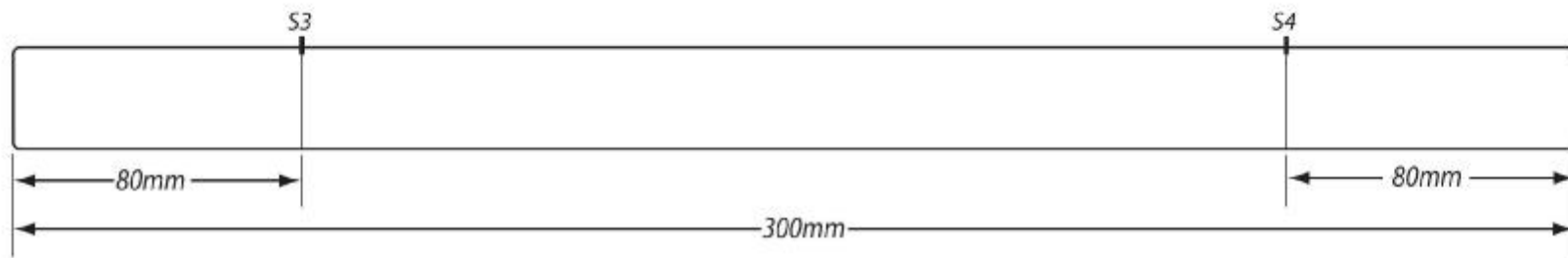
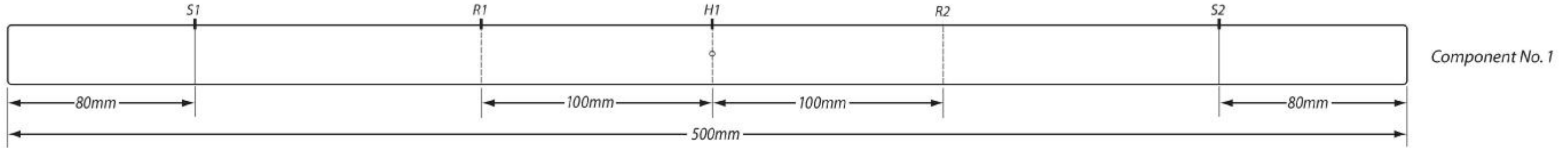
Difficulty Rating:

Easy	✓
Straightforward	
More complex	



Design Pack: Guitar Mobile Phone Holder - Design Sheet

Not to Scale:



List of Materials

1 Lengths x 12mm x 2mm x 3ft [Re- Order Ref: MC034]

1 Lengths x 10mm x 1.6mm x 3ft [Re-Order Ref: MC031]

6 x 3mm x 6mm Rivets [Re-Order Ref: MC050L]

