## LOG

Tools Required to Make this Design crolling：Mk 2／2H（or Mk 2／3）Scroll Formers with 3 mm ． iveting：Pract block \＆pin－or use 5 mm holes but 5 mm rivets will be required＊） Bending：Practical RBR（or Master RBR or XL5＋Power Bender） Cutting：Practical Punch／Shear（or Master Punch／Shear or XL5＋Power Bender）

Uprights 777mm（x 14）
ut fourteen 777 mm lengths of $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ strip and trim corners．On each，mark Scroll point S1 150mm from one end and Bend position B 327 mm from the other end．Using he Design sheet as a reference，flip the bar over and on the opposite face mark Bend positions B 1 and $\mathrm{B3}$ as shown as well as Hole ositions $\mathrm{H} 1 \& \mathrm{H} 2$ ．
Now form a scroll to point $S 1$ and repeat for the other 13 Uprights．Next set the RBR tool to bend an angle of 170 degrees uprights at point B1．
Next set the RBR tool to bend an angle f 100 degrees（Template No．2）and bend all fourteen uprights at point B2 and then set the RBR tool to bend an angle of 90 degrees（Template No．3） and bend all fourteen uprights at point B 3 ，to achieve the
shape shown here
naily，punch holes H 1 and H 2 on all fourteen uprights．

## 2 Foot 250 mm （x 3 ）

Take another length of $20 \mathrm{~mm} \times 3 \mathrm{~mm}$ and cut three lengths of 250 mm and trim the one end and Bend point B4 30 mm from the other．Form scroll on all three pieces to S 2 and then set angle of bend to 160 degrees（Template No．4）and bend all the three feet at $\mathrm{B4}$ ．

3 Foot Supports 120 mm （x 3 ） $\qquad$ COMPONENT 3 Take three of the leftover pieces from cutting the
uorights and cut down to 120 mm and trim corner uprights and cut dow and then set the PBP tol to bend an angle of 140 degrees at B5（template NO 5 left hand side）and bend all three pieces．Next set the tool to bend 145 degrees and bend at B 6 on all three pieces．

## 4 Initial Assembly

 At this point，you can select anupright and lay it down flat upright and lay it down flat with one of the Feet and one
of the Foot Supports．Mark out the three rivet points and punch holes in all three components． Repeat this with 2 more uprights， nd the other 2 Feet，and Foot supports．Make sure all three are marked in the same positions before punching and riveting together with a $0 \mathrm{~mm} \times 3 \mathrm{~mm}$ rivet．


5 Top Ring（Two piece） 686 mm （ $\times 2$ ）Compo Next cut two 686 mm lengths and trim the corners． Repeat with positions $\mathrm{H3}$ and roll into a semi－cic together it should form a circle 440 mm in diameter． Now punch all H3 hole positions．

## Top Ring Joint Straps 25 mm （ $\times 2$ 2 COMPONENT

 Use an offcut to cut two 25 mm lengths and trim corners．With the RBR tool still set for rolling the Top Offer these up to the two joints of the Top Ring sem circles and mark on these straps and the correspond－ ing ends of the semi－circles the hole positions required to enable them to be joined with the strap．Punch these holes and rivet using a $10 \mathrm{~mm} \times 3 \mathrm{~mm}$ rivet．

7 Small Lower Ring 325 mm （ $\times 1$ 1）COMPONENT 6 Now cut a 325 mm length and trim the corners．Mark all 14 hole positions H 4 and roll into a ring approx 106 mm in diameter．Then punch all 14 holes．


## 8 Assembly

Start by riveting with the first of the three uprights with feet attached（from stage 4 above）to the outside of the Top Ring as shown in this illustration here at hole H 2 on the upright and H 3 of the ring using a $10 \mathrm{~mm} \times 3 \mathrm{~mm}$ rivet
To do this you will need to rotate the upright through 90 degrees to get the joint in the RBR tool．After riveting，twist the upright back to its correct position． At this point you may well need the assistance of another person to support the weight of the Log Burner as it steadily gets riveted
Using the same
U technique，now rivet the next leg by les between the first leg and the second．leg and the three blank holes between the second leg and the third（that should leave four blank holes between the third and the first）． cont．on back page


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| STRAIGHTFORWARD |  |
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## Not to scale: Design Pack: LOG BURNER - DESIGN SHEET



