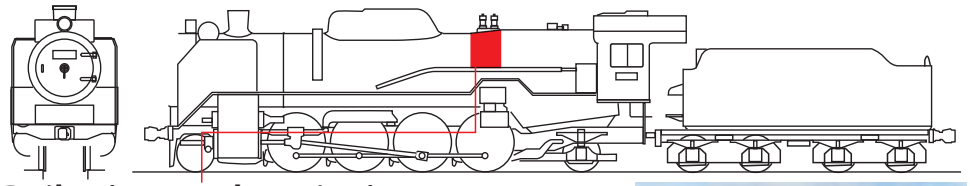
The boiler 3



Boiler (tapered section)

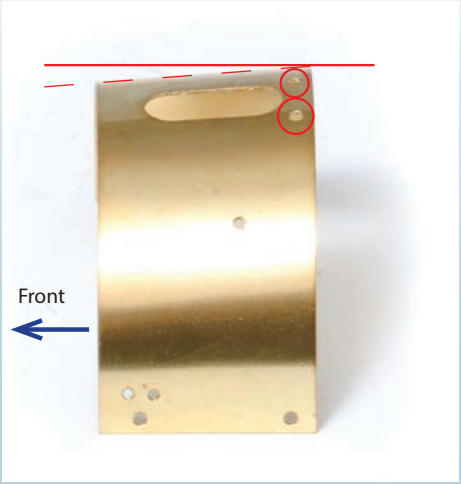
Your parts

Safety valves × 2
Screws (2 × 4mm) × 7
Boiler (tapered section)
Safety valve cover
Safety valve base

Required tools

Phillips screwdriver

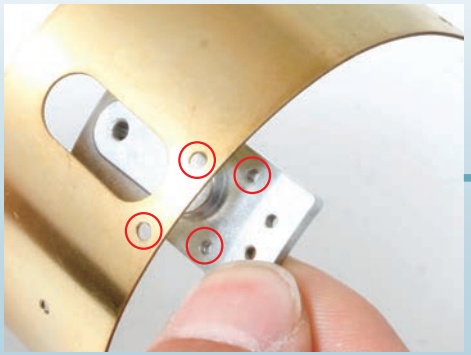
1 Preparing the parts



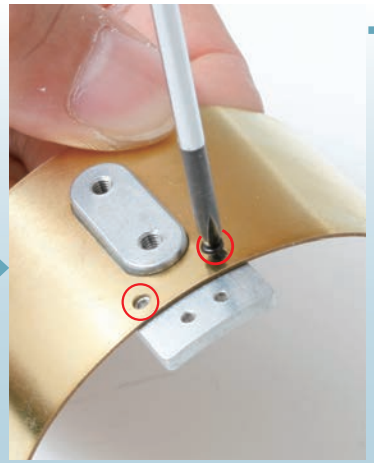
Position the tapered section of the boiler as shown. Note the positions of the holes (circled) and the angle of the top.

Position the safety valve cover as shown above, and note the angle of the top.

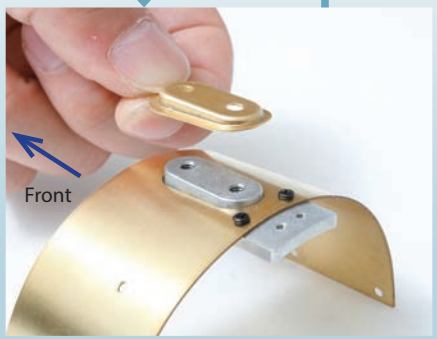
2 Fitting the safety valves



Place the safety valve base on the inside of the boiler section, aligning the circled holes.



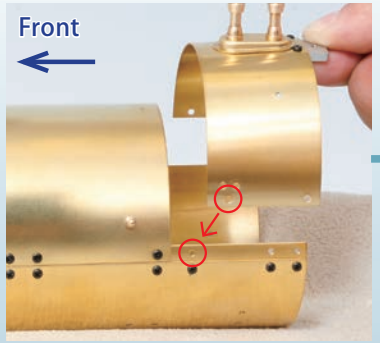
Tighten a 2 x 4mm screw into each of the two circled holes.



Place the valve cover over the top of the base, resting on the boiler.

Screw the two safety valves into the holes in the cover and base.

3 Fitting the tapered section of the boiler

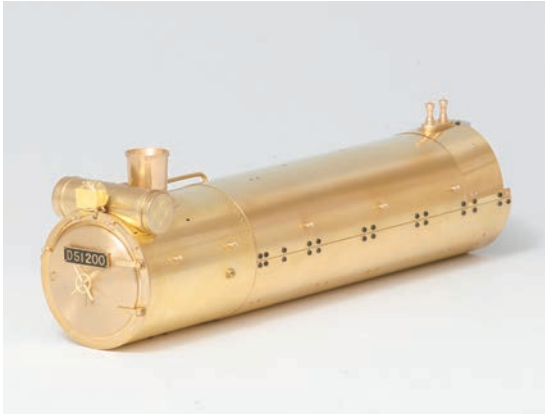


Place the tapered section of the boiler at the back of the boiler, aligning the circled holes.

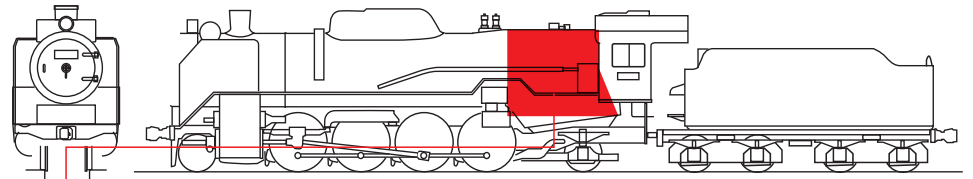
Tighten a 2 x 4mm screw into the circled holes on the left side of the boiler.

Tighten two 2 x 4mm screws into the holes on the right side of the boiler to secure the tapered section of the boiler in place.

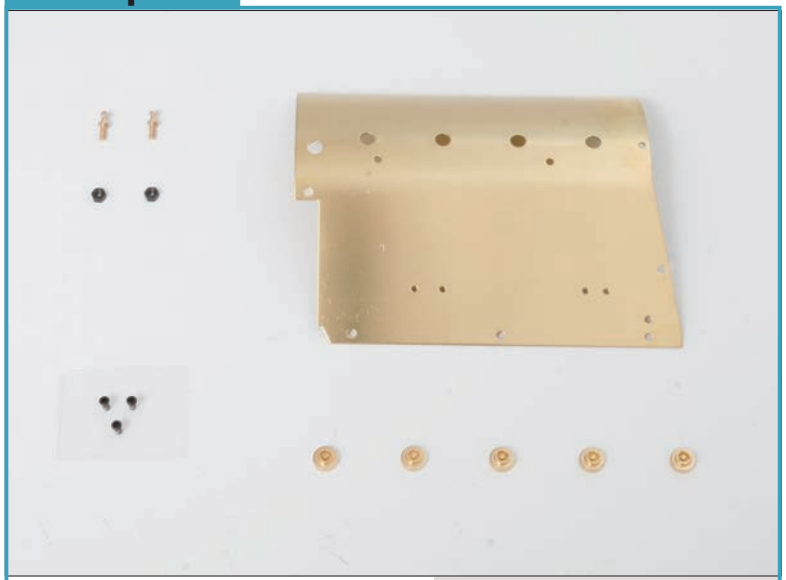
Assembled parts



The firebox 1



Your parts



Handrail brackets × 2
Nuts × 2
Screws (2 × 4mm) × 3
Left firebox half
Fusible plugs × 5

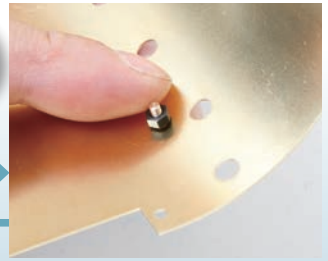
Required tools

Phillips screwdriver
Instant adhesive
Contact adhesive

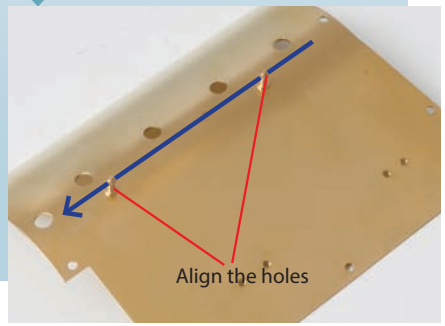
1 Fitting the handrail brackets

Insert one of the two handrail brackets into one of the circled holes in the left firebox half.

Repeat to fit the second handrail bracket. Make sure to align the holes in both brackets.

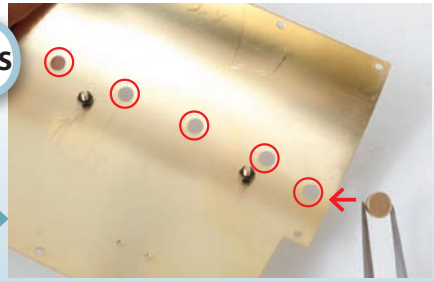


Tighten a nut with some contact adhesive on it on to the thread of the bracket.



2 Fitting the fusible plugs

These two views of a fusible plug show its front and back.



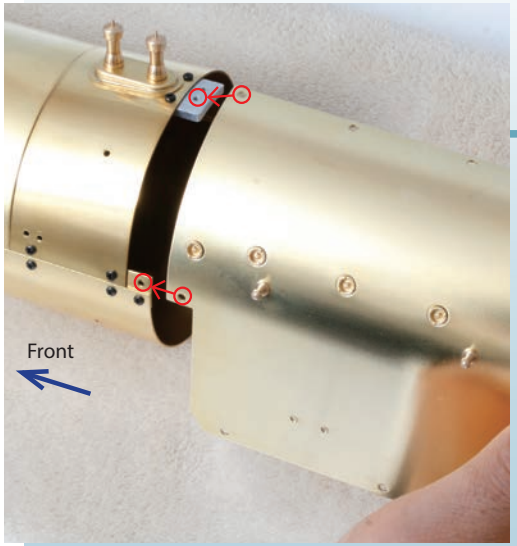
The five circled holes are the locations for the spouts. Place the first spout into the hole on the right, on the inside of the firebox half.

Apply glue to the contact area between the spout and the inside of the firebox half.

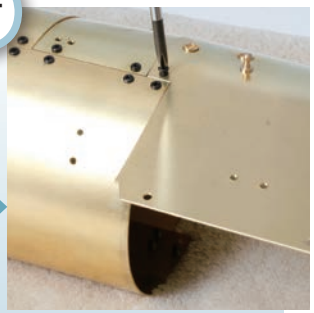
Repeat this process for the remaining four spouts.

The outer surface of the left firebox half should now look like this.

3 Fitting the left firebox half



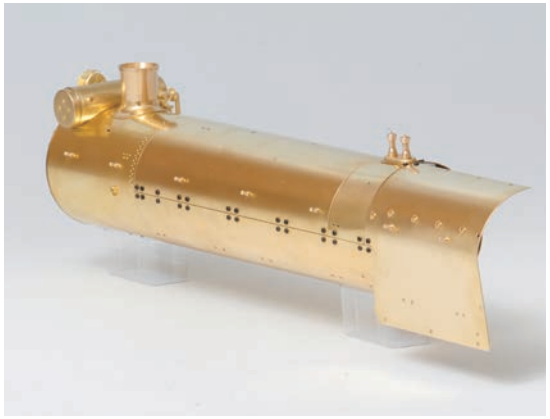
Align the circled holes of the firebox half with those of the boiler and safety valve base.



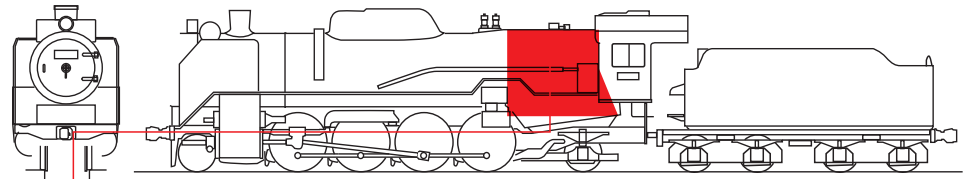
Tighten a 2 x 4mm screw into the hole at the side of the firebox.

Tighten a 2 x 4mm screw into the hole at the top of the firebox.

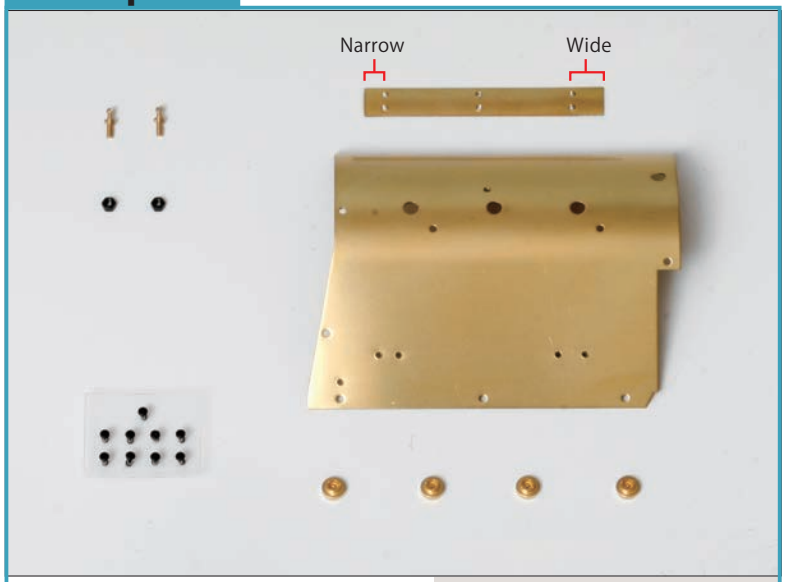
Assembled parts



The firebox 2



Your parts

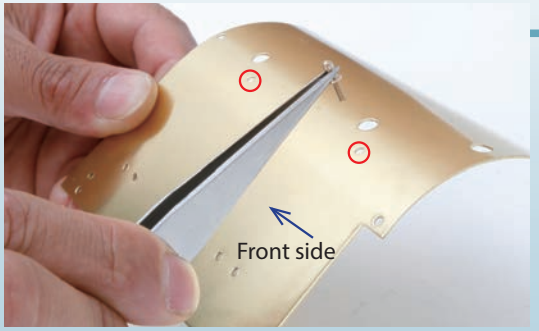


Right firebox half
Joint plate
Fusible plugs × 4
Handrail brackets × 2
Nuts × 2
Screws (2 x 4mm) × 9

Required tools

Phillips screwdriver
Instant adhesive
Contact adhesive

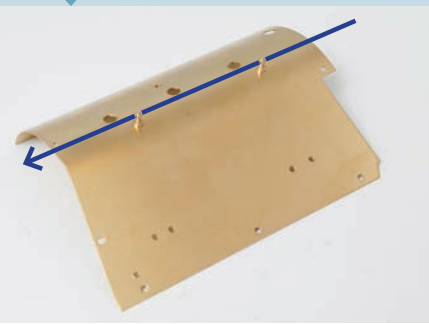
1 Fitting the handrail brackets



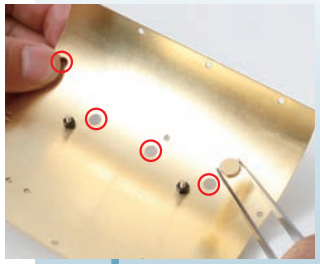
Insert one of the two handrail brackets into one of the circled holes in the right firebox half.

Tighten a nut with some contact adhesive on it onto the thread of the bracket.

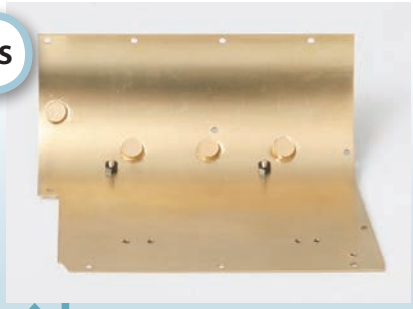
Repeat to fit the second handrail bracket, aligning the holes in both brackets.



2 Fitting the fusible plugs



Place the first spout into the hole on the right, on the inside of the right firebox half.

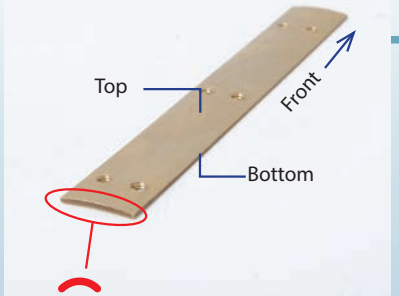


Repeat this process for the remaining four spouts.

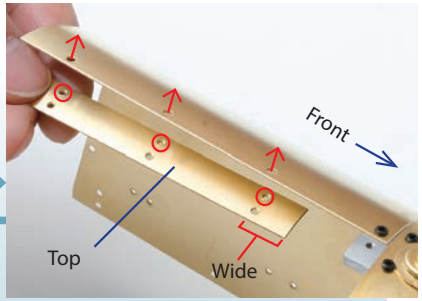
Apply glue to the contact area around the spout.

The right firebox half should now look like this.

3 Fitting the joint plate



Position the joint plate as shown, to identify the top and bottom surfaces.

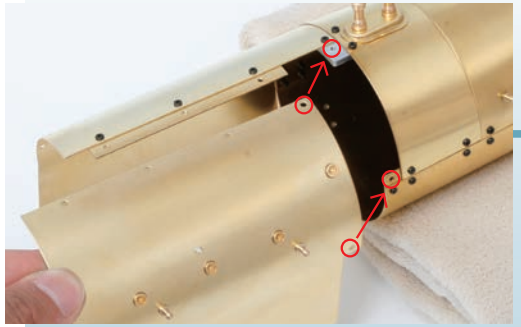


Place the joint plate on the inside of the left firebox half, aligning the three holes.

Tighten a 2 x 4mm screw into each of the three circled holes.

The assembly should now look like this.

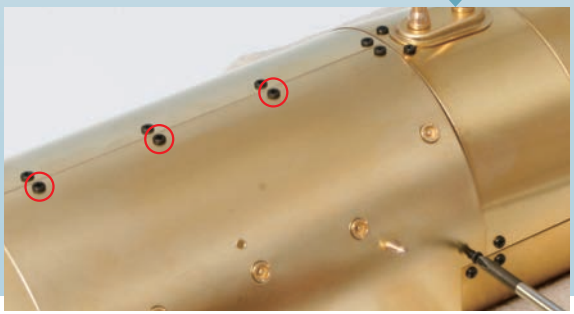
4 Fitting the right firebox half



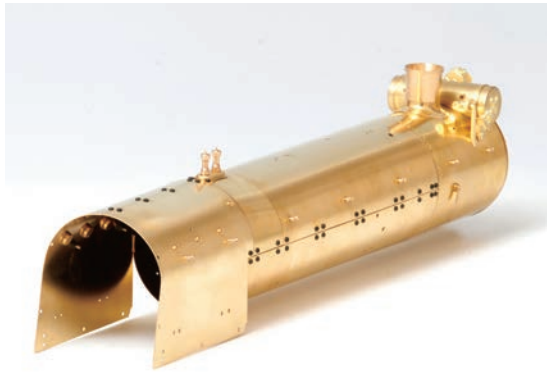
Tighten a 2 x 4mm screw into the hole at the top of the firebox.

Align the circled holes of the firebox half with those of the boiler and safety valve base.

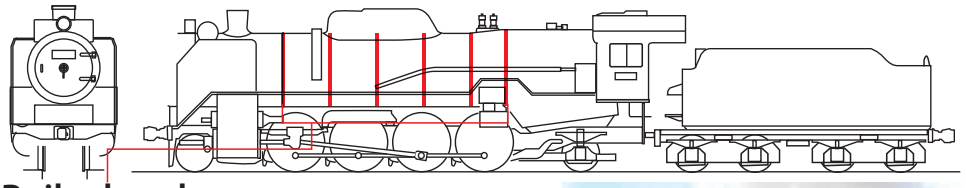
Tighten a screw into the hole at the side of the firebox, and into the three holes along the top to secure it to the joint plate.



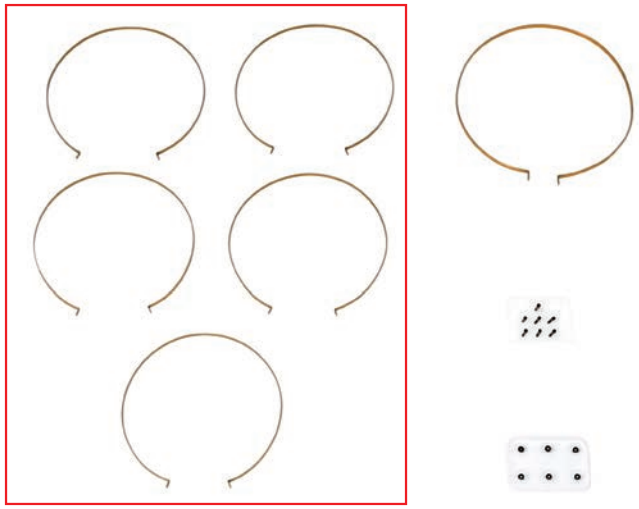
Assembled parts



The boiler bands



Your parts



Boiler band A
Boiler bands B × 5
Screws (1.4 × 6mm) × 7
Nuts × 6

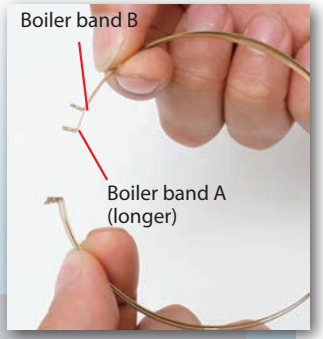
Required tools

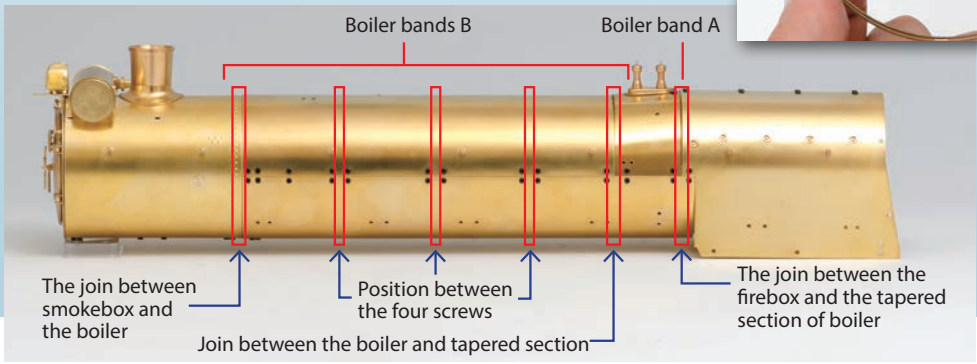
Pliers
Phillips screwdriver
Masking tape

1 Preparing the parts

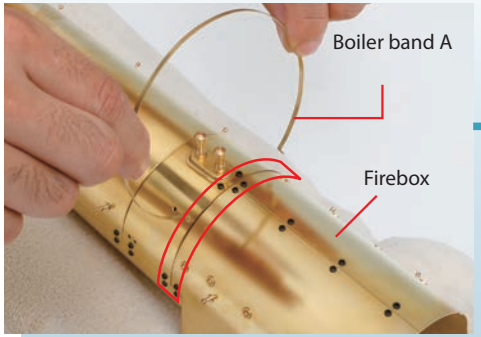
The photo below shows the positions of the six boiler bands: at the join between the smokebox and boiler, between the sets of screws along the boiler, and at the join between the tapered section of the boiler and the firebox.

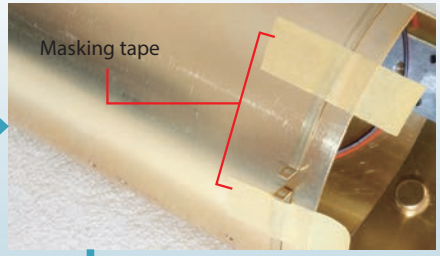
This photo shows the difference between boiler bands A and B, so that even if they get mixed up you will be able to tell them apart.





2 Fitting boiler band A

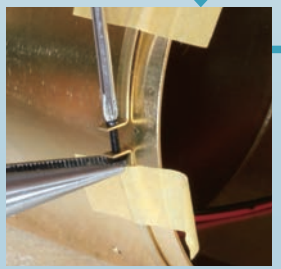


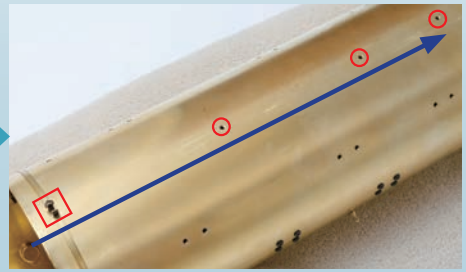


Temporarily hold band A in place with some masking tape.

Place band A over the join between the firebox and the tapered section of the boiler.

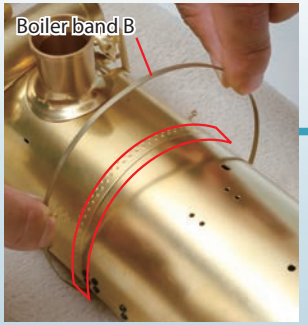
Hold a nut over the hole at one end of band A and tighten a 1.4 x 6mm screw through the hole at the other end and into the nut.

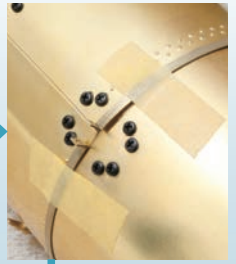




Adjust the position of band A so the two ends are aligned with the holes along the bottom of the boiler.

3 Fitting boiler band B

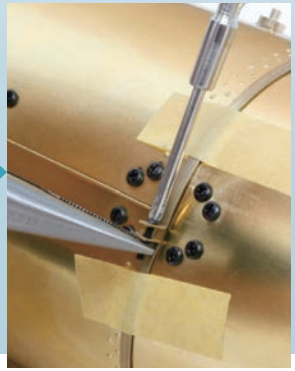




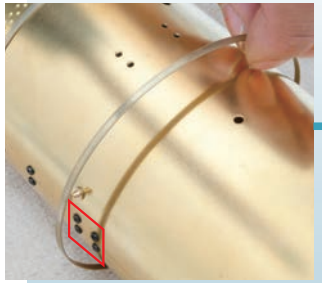
Temporarily hold the B band in place with some masking tape.

Place a B band over the join between the smokebox and the boiler.

Hold a nut over the hole at one end of the band and tighten a 1.4 x 6mm screw through the hole at the other end and into the nut, adjusting the position of the band to align it with the holes along the bottom of the boiler.

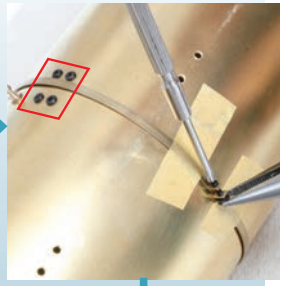


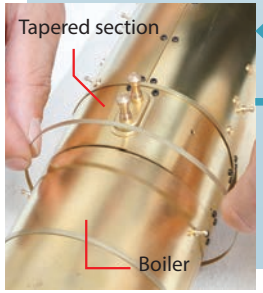
4 Fitting boiler band B, continued



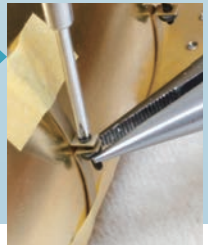
Place the next three B bands along the boiler, positioning them between the screws.

Adjust the positions of the bands, hold them in place with tape and then secure with a nut and screw, as before.





Place the last B band over the join between the boiler and the tapered section.



Adjust the position of the ends, hold with tape and then secure as with the previous bands.

Assembled parts