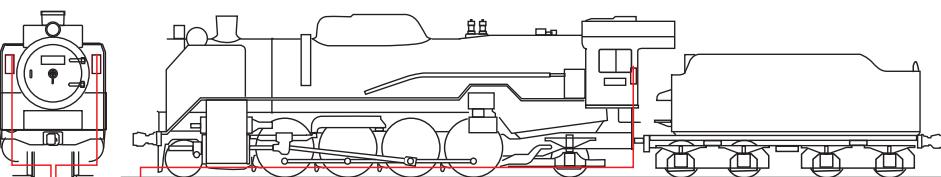


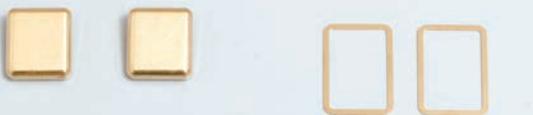
The window frames and back rests



Window frames and back rests



Your parts

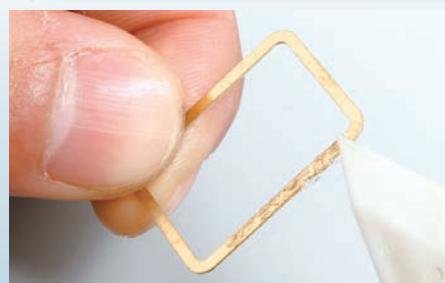


Cab rear window frames × 2
End beam right
End beam left
Seat back rests × 2
Distribution valve
Screws (2 × 4mm) × 16

Required tools

Phillips screwdriver
Contact adhesive
Tweezers

1 Fitting the rear window frames



Apply contact adhesive to one side of one of the rear window frames.



Place the window frame on the rear of the cab, around one of the window cut-outs.



Before the glue sets, adjust the position of the frame so that it is evenly spaced from the edge of the window on each side.



Repeat this process to fit the second rear window frame to the other side of the cab.

2

Fitting the back rests



Tighten a 2 x 4mm screw into each of the holes to secure the seat in place.

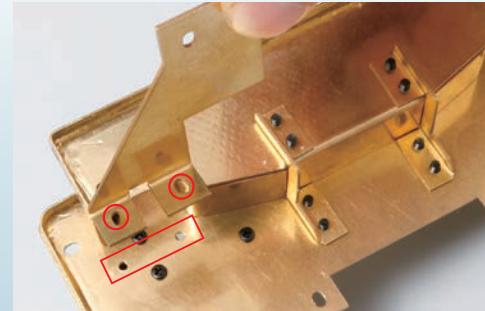


Align the circled holes on the back of the back rest with the two holes in the rear of the cab.

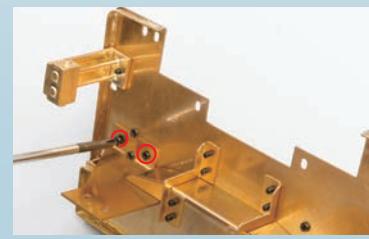
Repeat this process to fit the second back rest onto the other side of the cab.

3

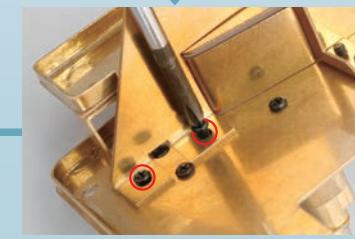
Fitting the end beams



Place the cab floor upside down and align the holes of the left cab end beam with the holes in the bottom of the floor.



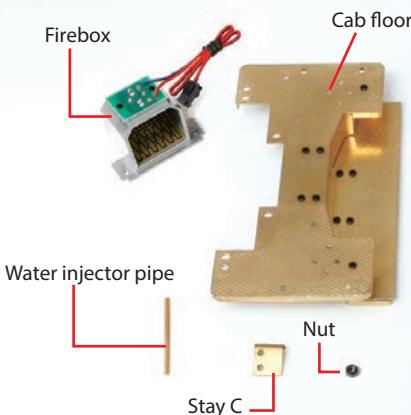
Repeat for the right cab end beam.



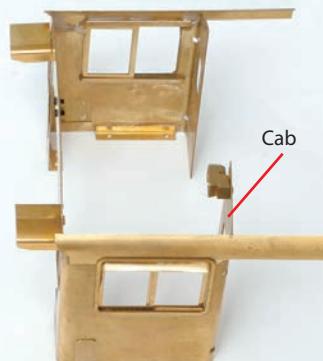
Tighten a 2 x 4mm screw into both holes to secure the end beam.

4

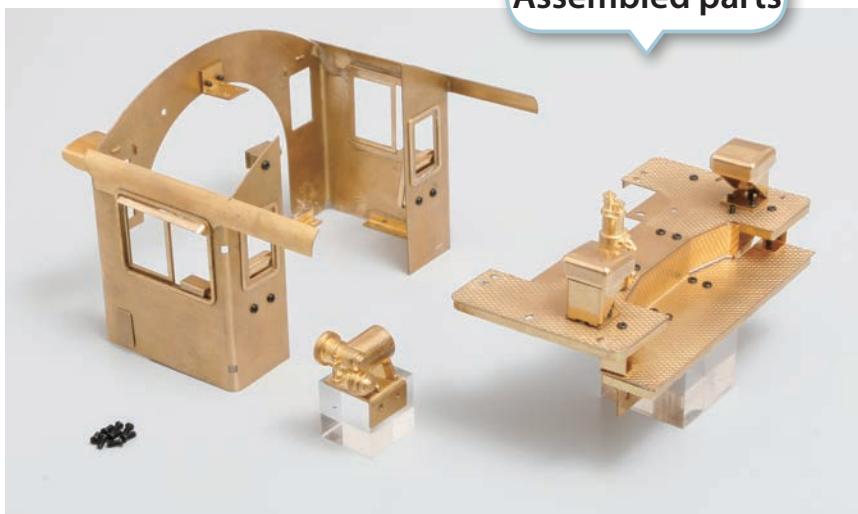
Confirmation of parts



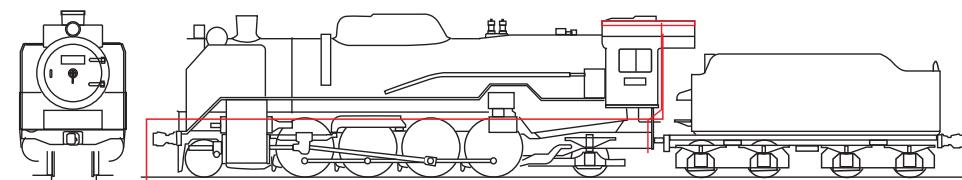
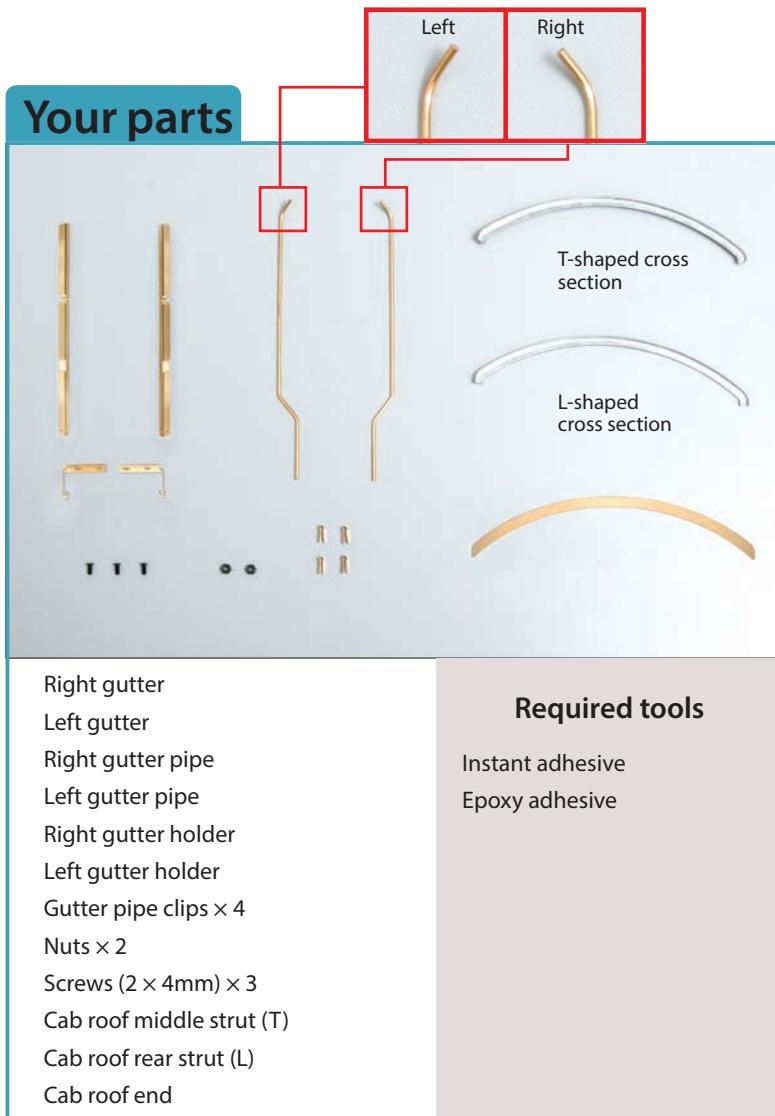
Make sure that you have all the parts shown above. The firebox, stay C and the nut come from Stage 51, and the water injector pipe from Stage 56.



Assembled parts



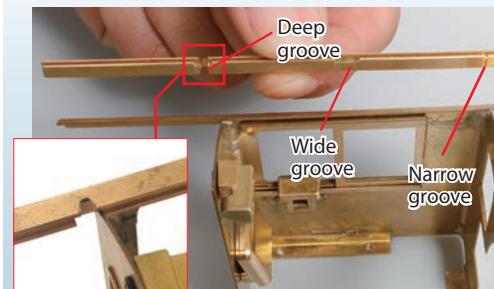
The cab roof 1



The cab roof gutters

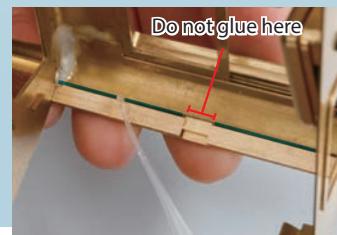


1 Fitting the gutters

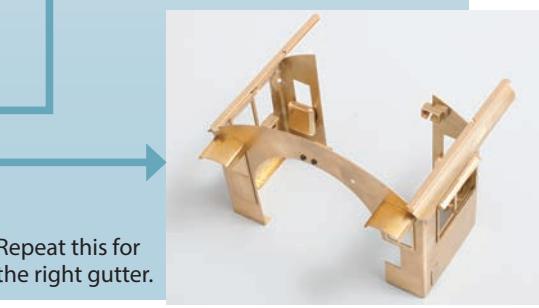


Place the left gutter on the top of the left side of the cab, with the deep groove positioned at the rear, as shown in the photograph.

Apply instant or contact adhesive to the join between the top and the gutter inside the cab.

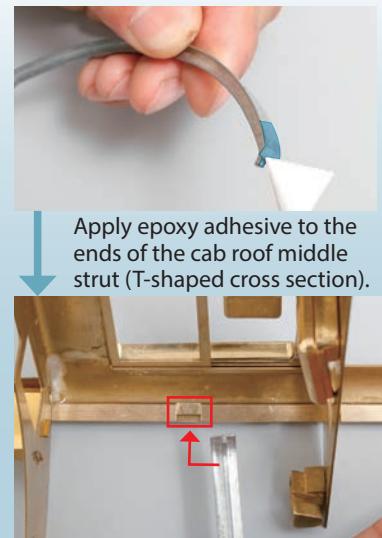


Push the gutter up against the cab top so there is no gap between them, with the narrow groove positioned over the front wall of the cab.

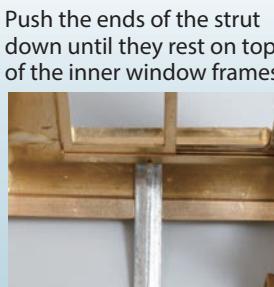


Repeat this for the right gutter.

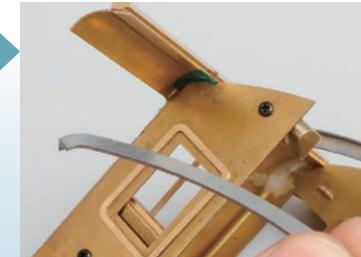
2 Fitting the roof struts



Apply epoxy adhesive to the ends of the cab roof middle strut (T-shaped cross section).



Push the ends of the strut down until they rest on top of the inner window frames.



Apply epoxy adhesive to the point where the gutters and cab rear wall meet.



Place the cab roof rear strut between the gutters, up against the rear wall.

Fit the ends of the strut into the wide gaps in the gutters on the inside of the cab.

3 Fitting the roof end



Turn the cab over and apply epoxy adhesive to the ends of the gutters and top sides of the cab.



Place the cab roof end between the ends of the two gutters.

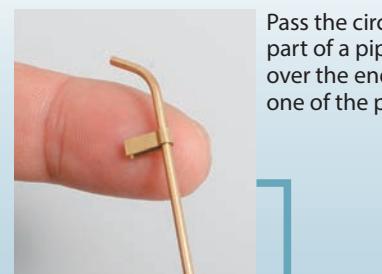


Place the cab roof end back into position between the gutters.



Make sure the roof end is positioned correctly on both sides, and leave it to dry before continuing.

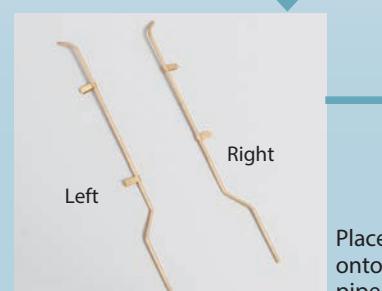
4 Fitting the pipes



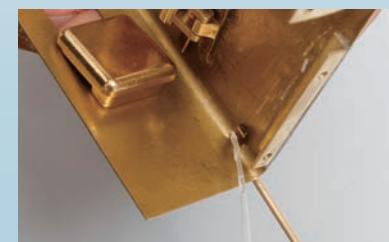
Pass the circular part of a pipe clip over the end of one of the pipes.



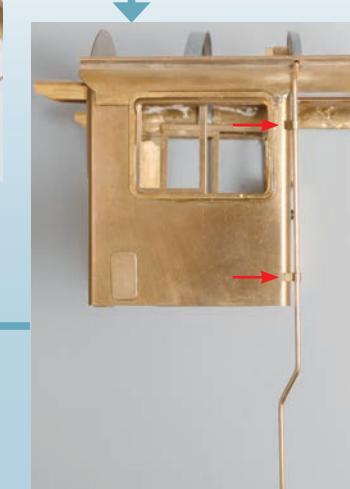
Insert the left pipe into the hole in the side of the left gutter (circled).



Place two clips onto each gutter pipe, as shown.



Apply glue to the ends of the two pipe clips from the inside of the cab to secure them and the pipe in place. Repeat this for the right pipe.

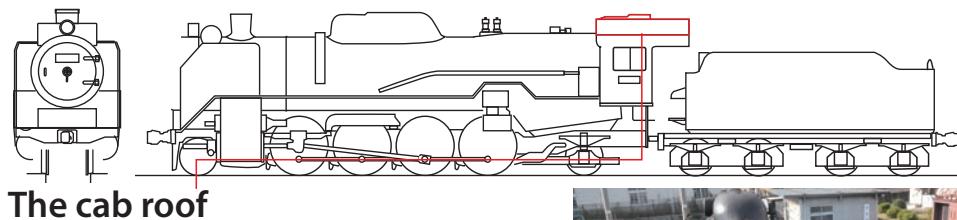


Insert the two pipe clips into the two holes in the corner of the cab wall (arrowed).

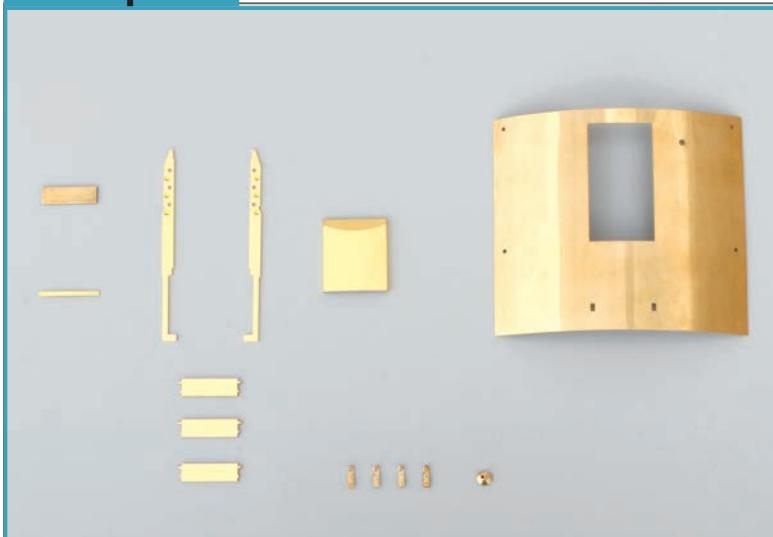
Assembled parts



The cab roof 2

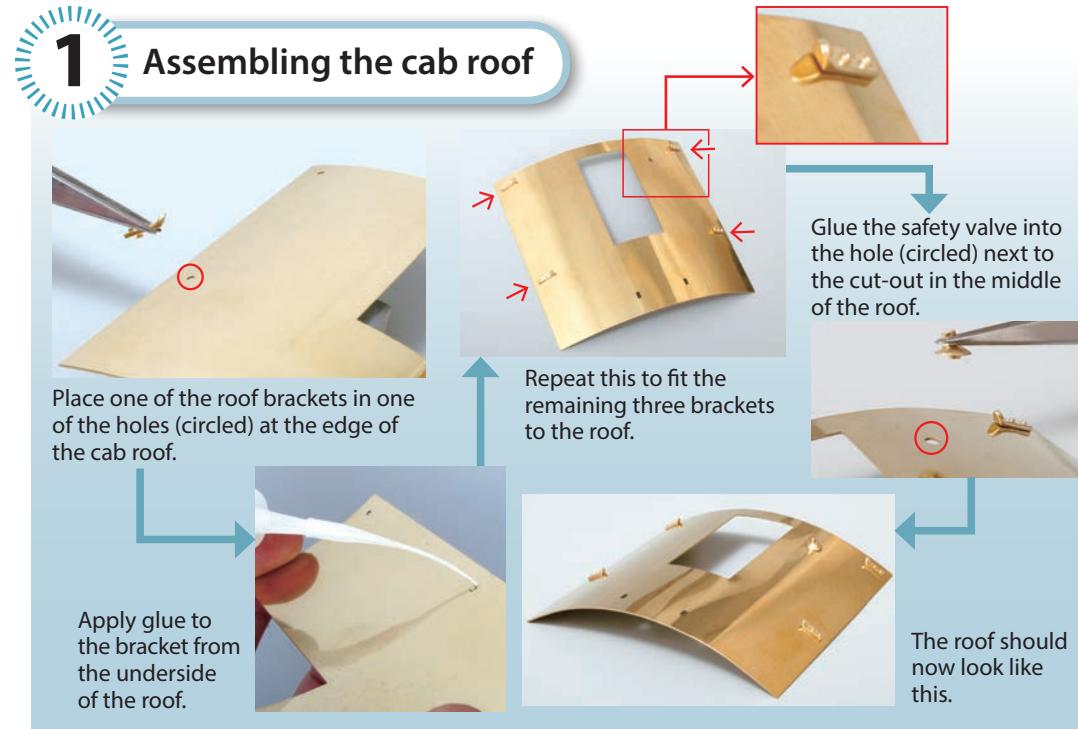


Your parts

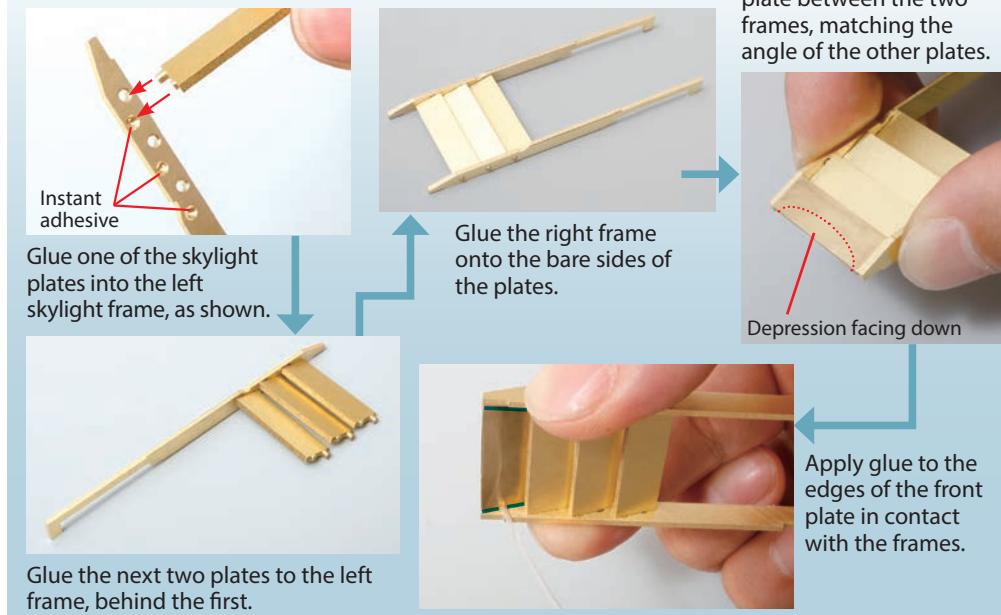


Skylight front plate
Skylight curved plate
Right skylight frame
Left skylight frame
Skylight plates x 3
Skylight top plate
Cab roof
Roof brackets x 4
Safety valve

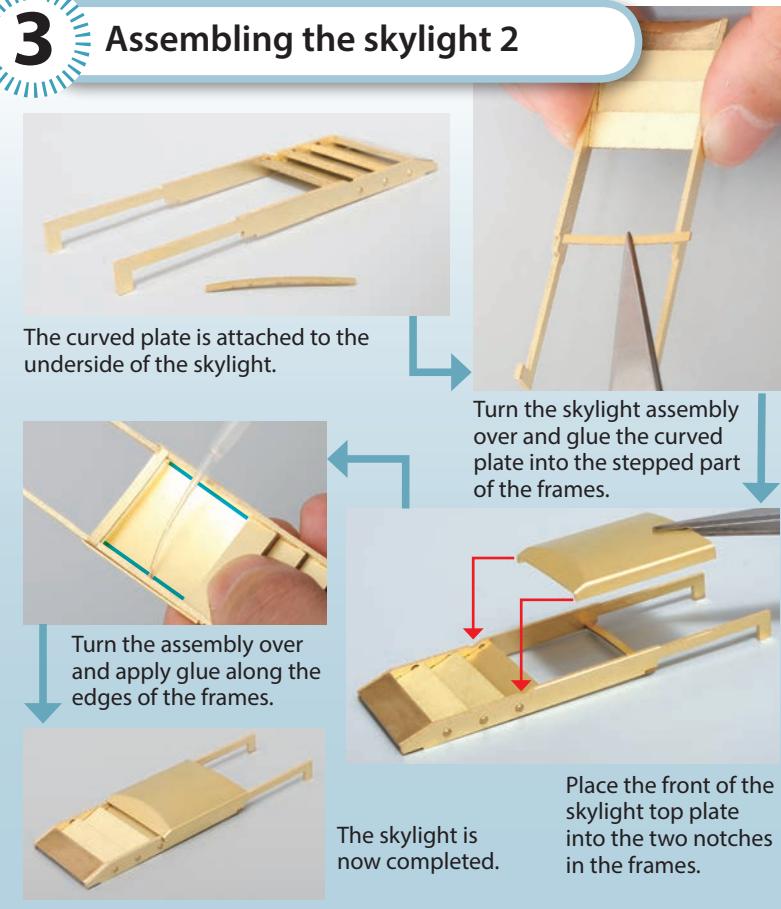
Required tools
Instant adhesive
Nipper
Tweezers



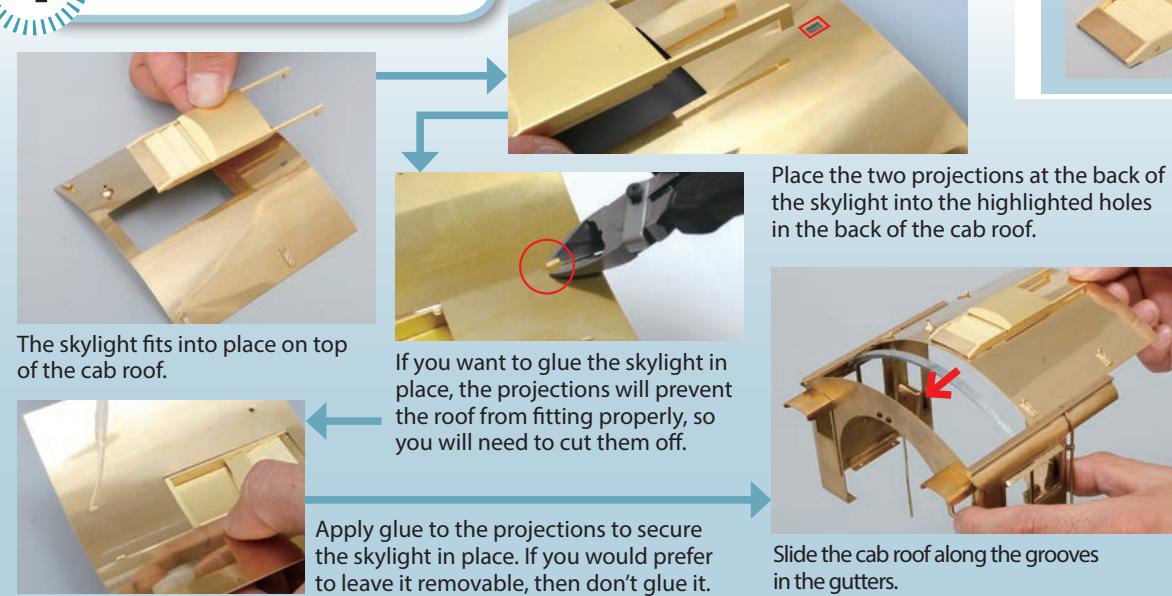
2 Assembling the skylight 1



3 Assembling the skylight 2



4 Fitting the skylight



Assembled parts

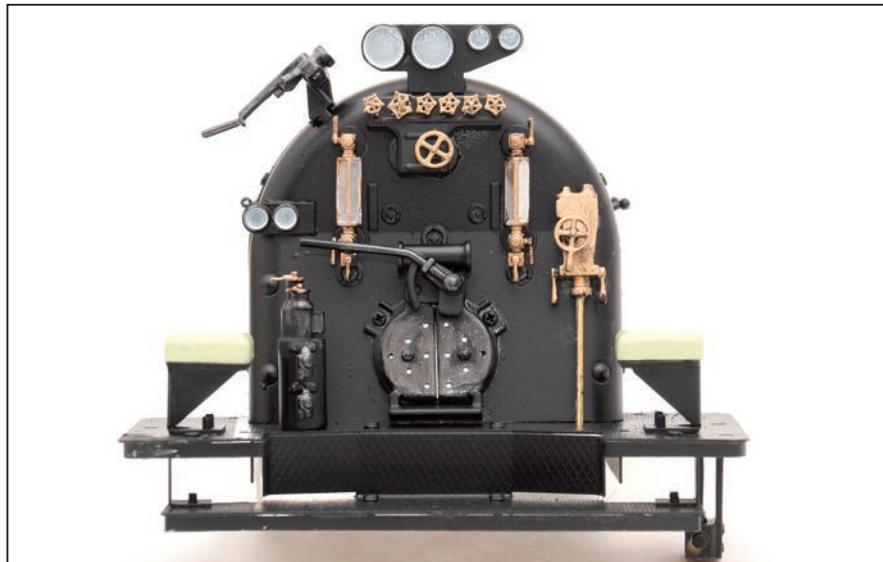


D51 Paintwork

Painting the backhead

If you have decided to paint your model, it is best to paint the backhead at this stage in the build.

Painted backhead



The painted backhead shown above is only an example of the way you can paint it. You can choose to paint as much or as little as you would like, and for a more authentic look, you can use the photo of the real locomotive as a guide.

It is better to use a matt black paint to give the impression of the age of the locomotive and the dust from the coal. You may want to weather the look of the firebox doors to give the impression of wear and heat discoloration.

The table below shows the combinations of base coat and top coat paints that will work.

Top coat

Base coat	Lacquer	Acrylic	Enamel
Lacquer	✓	✓	✓
Acrylic	✗	✓	✓
Enamel	✗	✓	✓

✓ = Combination will work
✗ = Combination won't work

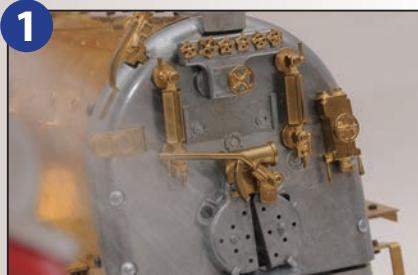
What you need



Spray paint – matt black
Model paint – enamel or acrylic.
Paint thinner – specific to the paint used.
Brushes – various sizes will be useful, as well as cotton swabs.
Base coat paint – such as transparent primer.
Masking tape
Degreasing/cleaning agent



Base coat

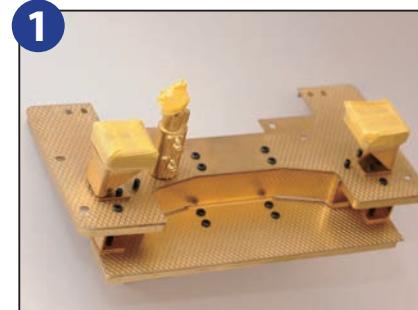


Before beginning the painting process, you should remove the backhead from the rest of the model and clean off all grease and dirt.



Spray the backhead with a transparent primer, making sure to spray from the sides to cover all of the parts.

Masking

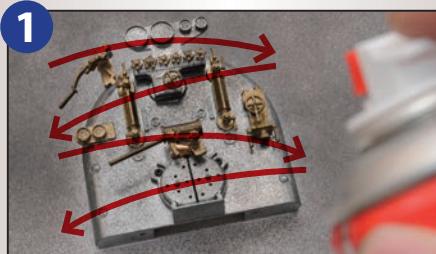


Using the completion shot on the previous page as a guide, mask off the parts not painted black.



Parts such as the valves should remain unpainted. You can achieve this by masking them, or removing the paint.

Top coat



Using a matt black paint, spray the backhead from around 30cm away, starting at the top and criss-crossing down, following the arrows.



Once mostly painted, check the backhead from different angles to detect any parts that you have missed.

Details



Before the paint dries, use paint thinner to remove it from parts that you want to leave brass coloured.



You can remove the paint more efficiently by using a flat brush in larger areas.



In order to simulate the glass fronts of the water gauges, use a gloss white or grey paint.

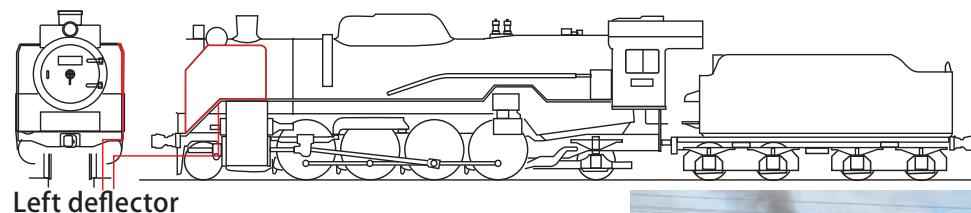


Use the same gloss paint for the set of gauges at the top. When dry, touch up any black paint.



You can choose whichever colour you like to paint the seats. The example here is a pale yellow and the seat shown in the photo on the previous page is blue.

The left deflector



Your parts

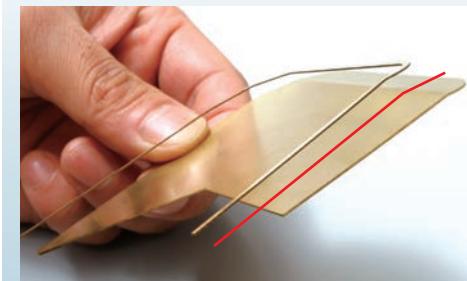


Left deflector outer frame
Left deflector plate
Left deflector stays $\times 2$
Screws ($2 \times 2\text{mm}$) $\times 3$
Left deflector inner frame

Required tools

Phillips screwdriver
Instant adhesive
Clips

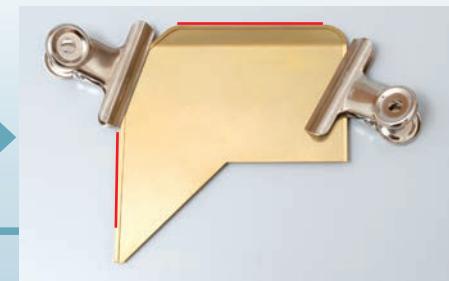
1 Fitting the outer frame



Align the left deflector outer frame with the left deflector plate, as shown.



Apply instant adhesive along the top edge. Wait for the glue to dry before continuing.

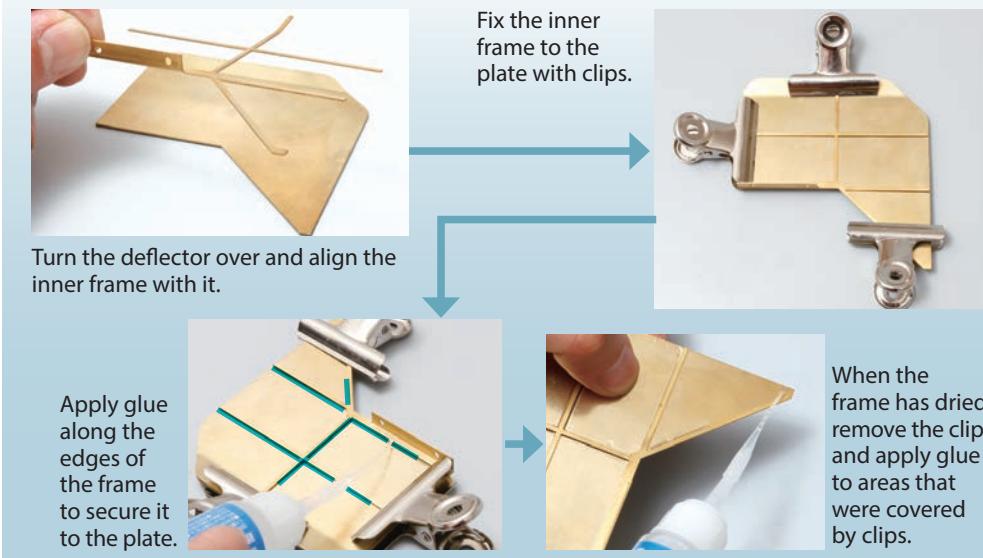


Hold the outer frame and plate in position with clips, as shown.

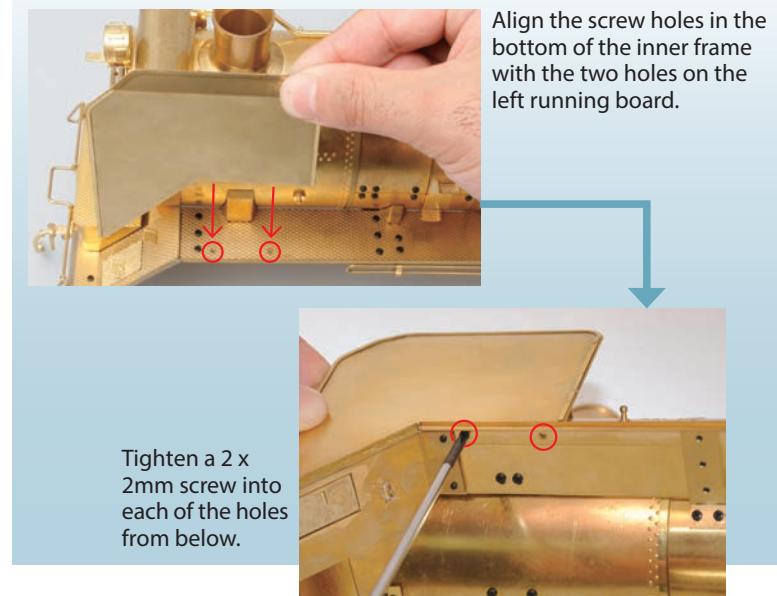


Work along the rest of the edge, applying glue. Wait until the glue has dried before removing the clips.

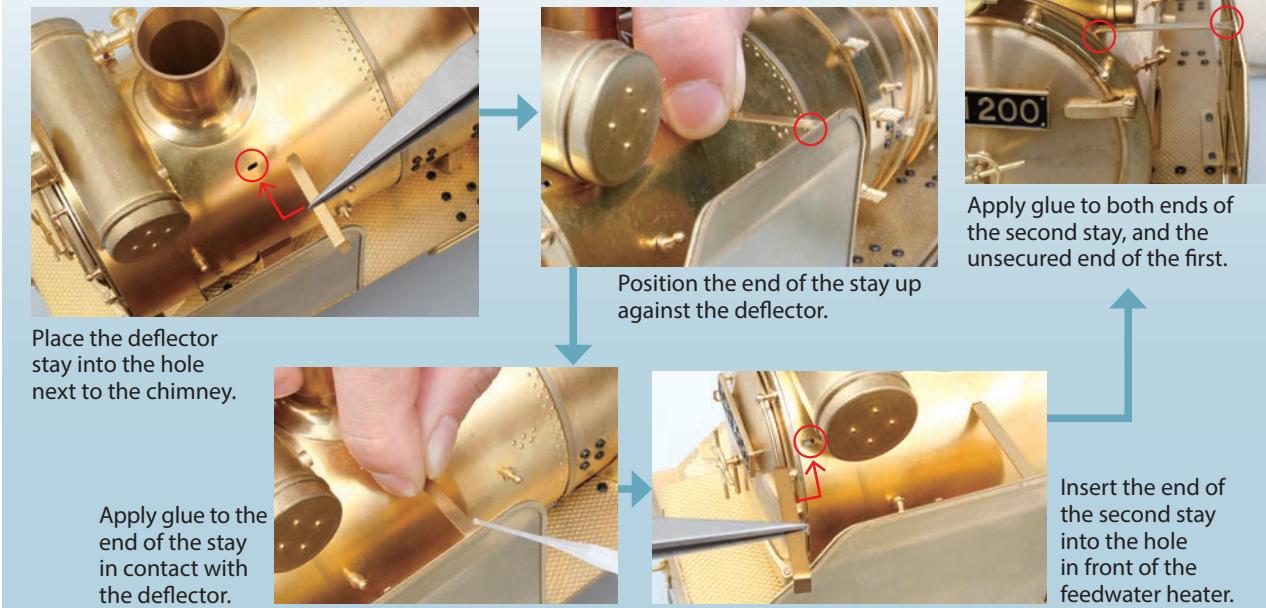
2 Fitting the inner frame



3 Mounting the deflector



4 Fitting the deflector stays



Assembled parts

