

Build the

C57

Steam  
Locomotive

Pack 05



DEAGOSTINI  
MODELSPACE™



**Build the**  
**C57** **Steam**  
**Locomotive**

## Contents

<b>Step by step</b>	<b>Page</b>
Stage 29: The leading truck 3	68
Stage 30: The leading truck 4	70
Stage 31: The headlamp	72
Stage 32: The smokebox door lock	74
Stage 33: The boiler 1	76
Stage 34: The boiler 2	78
Stage 35: The boiler 3	81
Stage 36: The firebox 1	83

Editorial and design by Continuo Creative, 39-41 North Road, London N7 9DP.  
Published in the UK by De Agostini UK Ltd, Battersea Studios 2, 82 Silverthorne Road, London SW8 3HE.  
Published in the USA by De Agostini Publishing USA, Inc., 121 E. Calhoun Street, Woodstock, IL 60098.  
All rights reserved © 2016

Warning: Not suitable for children under the age of 14. This product is not a toy and is not designed or intended for use in play. Items may vary from those shown.

# The leading truck 3

## Your parts

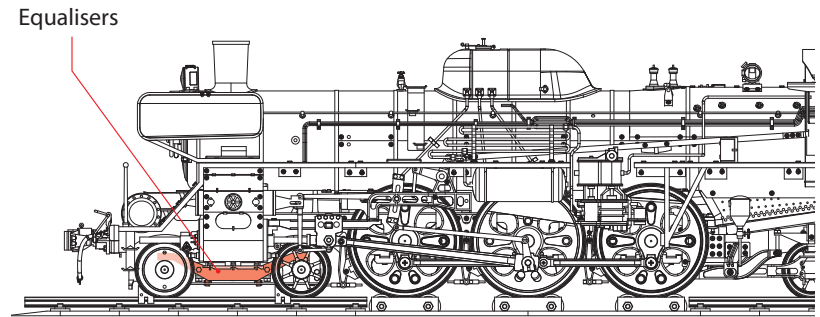


Equaliser (outer)  $\times 2$   
Equaliser (inner)  $\times 2$   
Leaf springs  $\times 2$   
Hanging links  $\times 4$   
Nuts (M2)  $\times 4$   
Screws (2  $\times$  10mm)  $\times 3$   
Hex head screws (2  $\times$  8mm)  $\times 5$

## Tools

Phillips screwdriver  
Pliers  
PVA glue  
Socket wrench

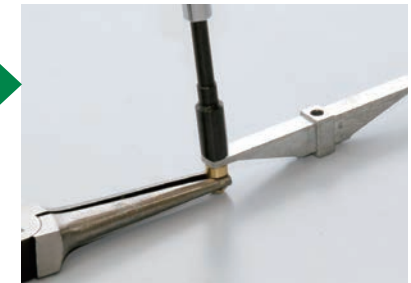
## Where your parts fit



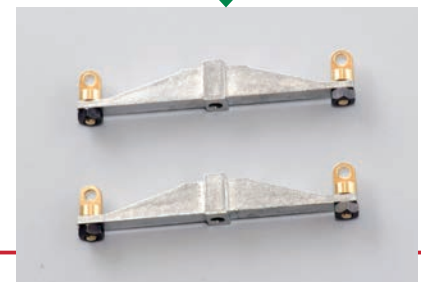
1



Lay out a leaf spring, two hanging links and two nuts, as shown.



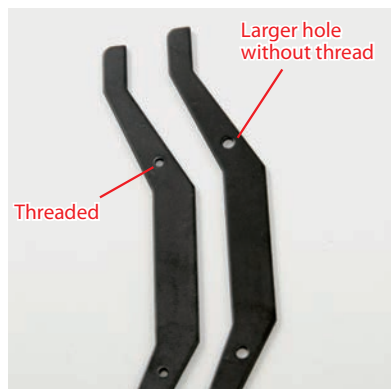
Pass the threaded part of the link through the hole in the leaf spring, and tighten a nut onto it.



Repeat this process to create two sets, as shown.



2

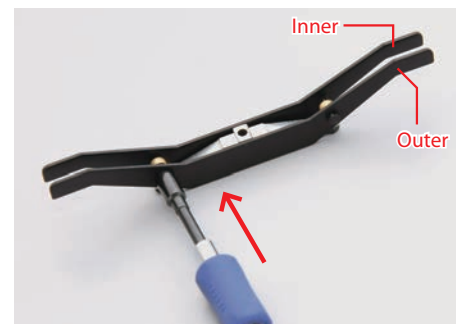


The holes in the outer and inner equalisers are different, as shown above.

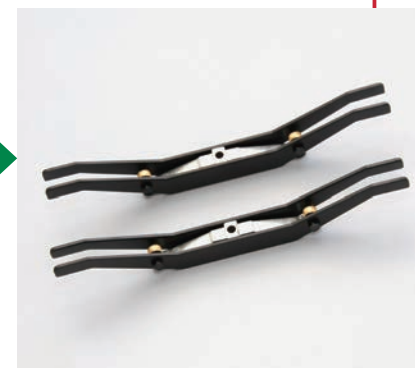


Place one of the leaf springs between an inner and an outer equaliser, along with two 2 x 8mm hex head screws.

3



Place the equalisers on either side of the leaf spring. Tighten a hex head screw through the aligned holes of the outer equaliser, the links and the inner equaliser.



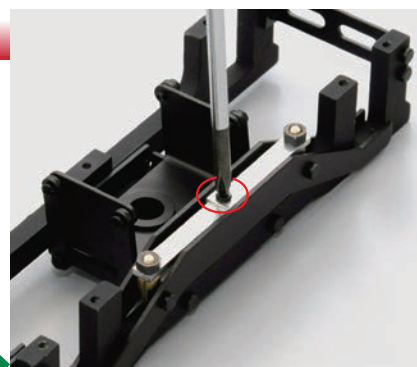
Make a second set.

4

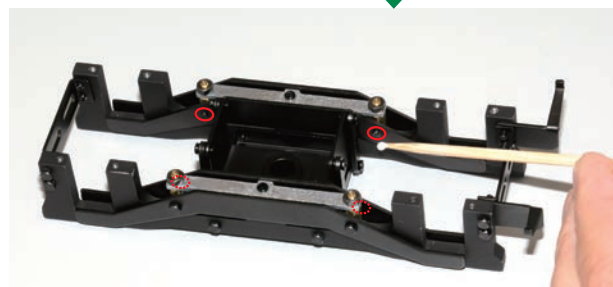


Place the assembly over the side frame of the leading truck, with the equalisers either side of the frame.

Loosen the hex head screws slightly and then apply some PVA glue to the ends of them.



Tighten a 2 x 10mm screw into the hole in the centre of the leaf spring, to secure it to the truck. Secure the second leaf spring assembly to the other side of the truck in the same way.



Complete





# The leading truck 4

## Your parts

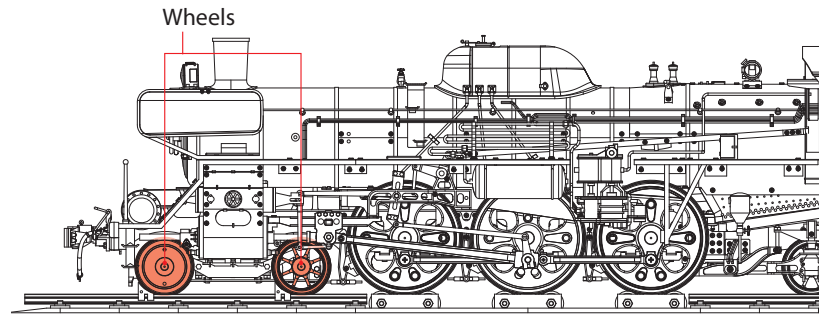


Leading wheel A  
Leading wheel B (spoked)

## Tools

Phillips screwdriver  
Flat head driver

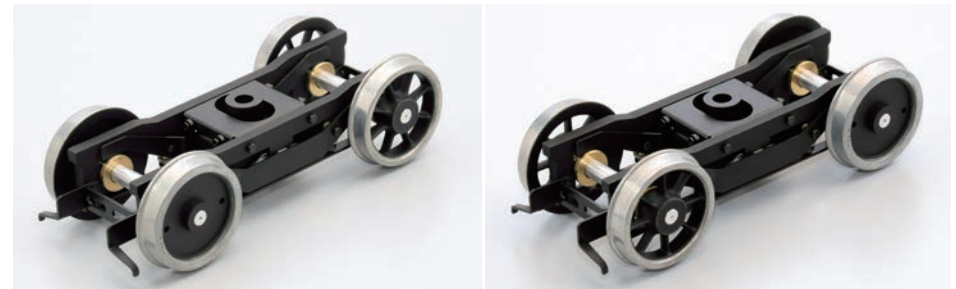
## Where your parts fit



1

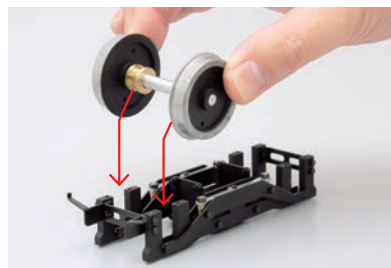


As well as the two leading wheels from this stage, you will also need the leading truck, as well as the side stays, washers, centre pin and 2 x 4mm screws from Stage 28.

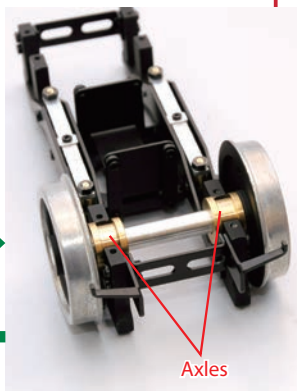


Make sure that when you are fitting the wheels of the leading truck that you have the spoked wheels at the rear (above left).

2



Place the leading truck upside-down and lower the first leading wheels into the U-shaped area just behind the guard irons.



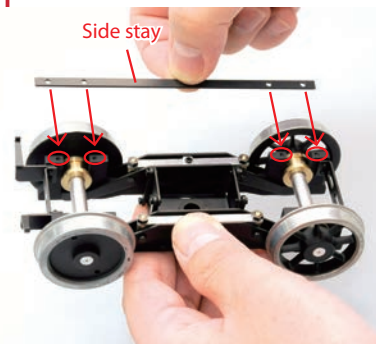
Axles

Position the two axles properly in the frames.

Fit the second leading wheel into the U-shaped area at the rear of the truck in the same way as the first wheels.



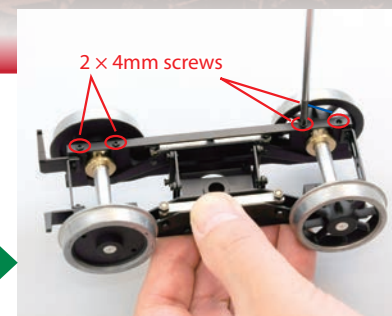
3



Side stay

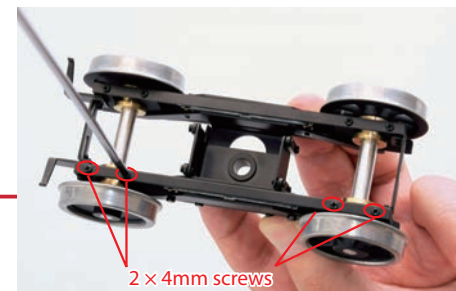
Lay a side stay (Stage 28) over the left underside of the truck, aligning the holes (circled).

Tighten a 2 x 4mm screw (Stage 28) into each of the holes.



2 x 4mm screws

Fit another side stay to the other side of the truck with four more 2 x 4mm screws.



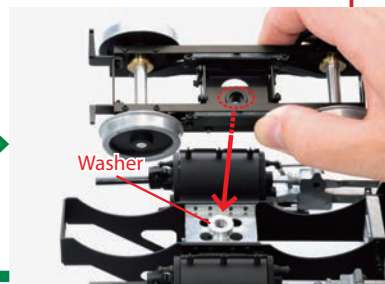
2 x 4mm screws

4



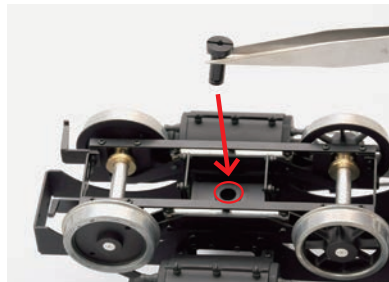
Place a washer (Stage 28) over the hole in the centre of the truck support.

Align the hole in the centre of the leading truck with the hole in the truck support.



Washer

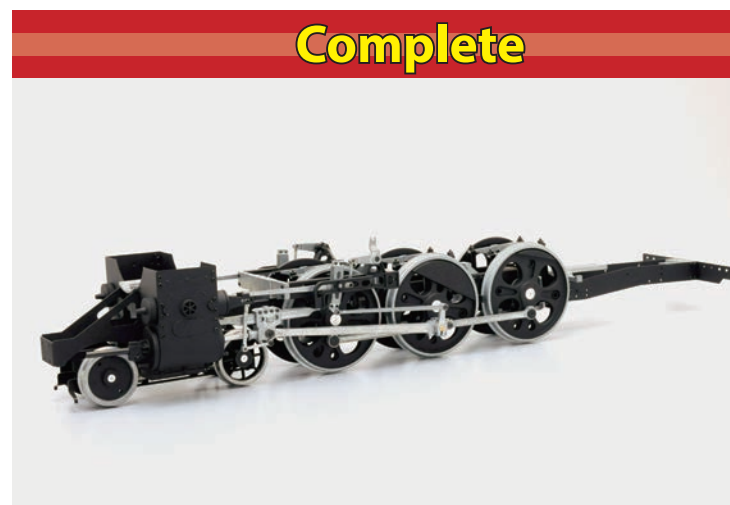
Pass the centre pin (Stage 28) down through the aligned holes.



Tighten the centre pin into place.



Complete



# The headlamp

## Your parts

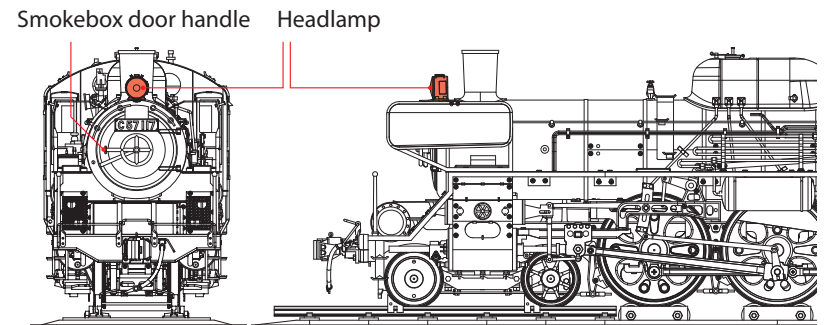


Headlamp  
Lens  
Smokebox door handle  
LED  
Terminals × 2  
Connector

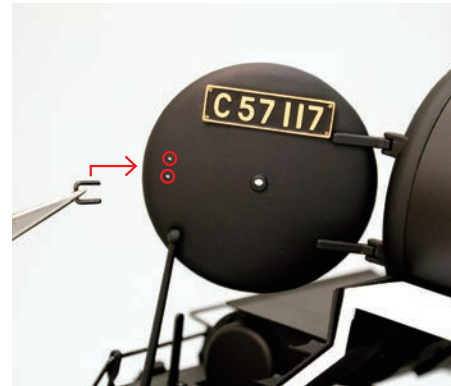
## Tools

Tweezers  
Epoxy adhesive  
Instant adhesive

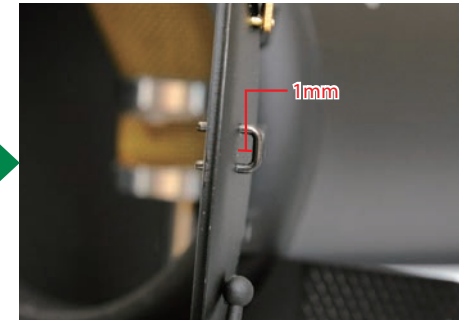
## Where your parts fit



1



Insert the handle into the two holes on the smokebox door.



Position the handle so that there is a 1mm gap between it and the door.



Apply instant adhesive to the ends of the handle to secure it in place.



2



Apply a small amount of epoxy adhesive to the base of the headlamp (circled, above).

Insert the post at the bottom of the headlamp into the hole at the top of the smokebox (circled).



Adjust the position of the headlamp to match the one shown here. Make sure it's aligned centrally with the smokebox.

3



Prepare the LED cable by removing the cable tie. Straighten the end of the cable that does not have the LED on it.



Align the end of the cable with the hole in the headlamp.

4



Pass the LED cable into the hole, down into the smokebox, and then back to the right side of the spark arrester.



Continue to feed the cable through the hole until the LED is in the headlamp.

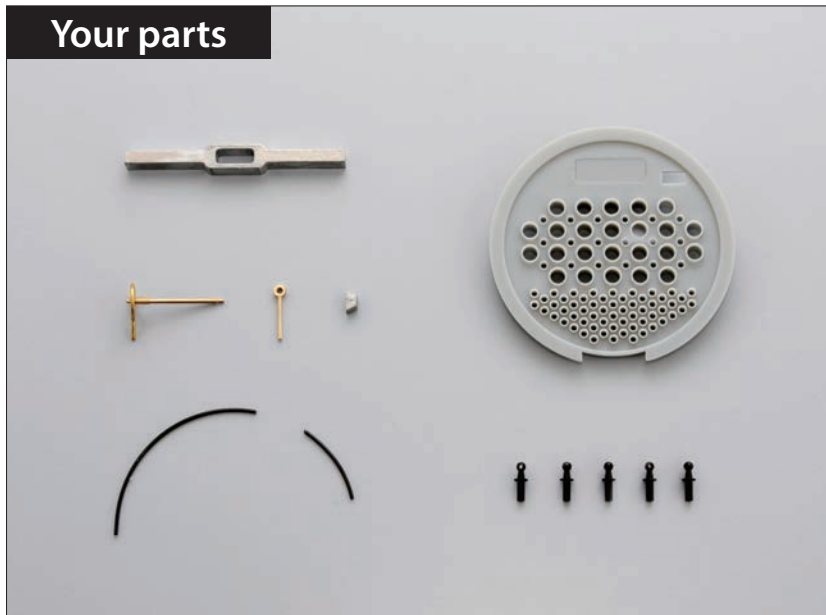
## Complete





# The smokebox door lock

## Your parts

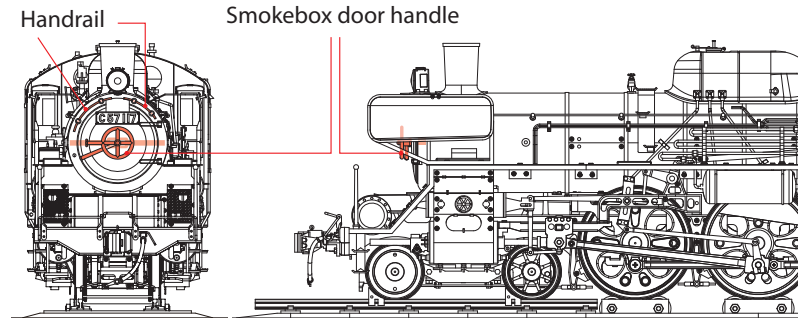


Lock bar  
Smokebox door handle  
Smokebox door lever  
Lock  
Superheater header  
Handrail A  
Handrail B  
Handrail brackets × 5

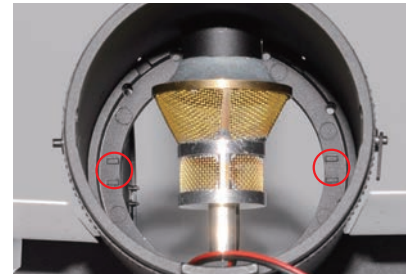
## Tools

Tweezers  
Epoxy adhesive  
Synthetic rubber adhesive

## Where your parts fit



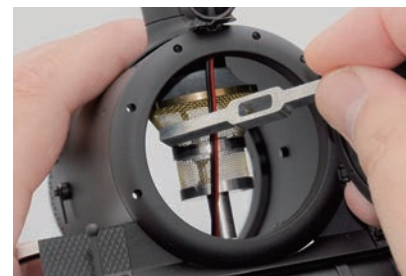
1



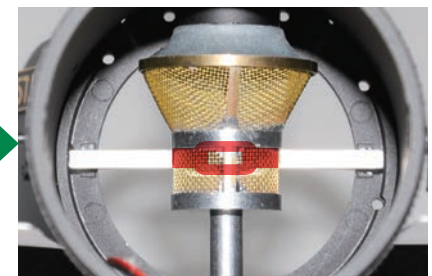
Locate the two ridges on either side of the inside of the smokebox door (circled).



Apply some epoxy adhesive to the space between the ridges.

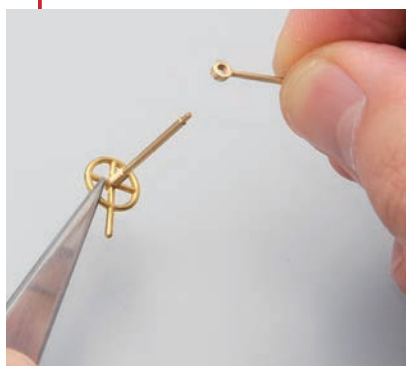


Open the smokebox door, and insert the lock bar from the front.



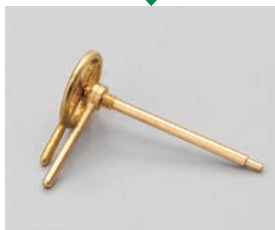
Glue the bar between the two ridges on either side of the smokebox. The hole in the centre should be positioned as shown above.

2



Insert the end of the smokebox handle into the hole in the lever.

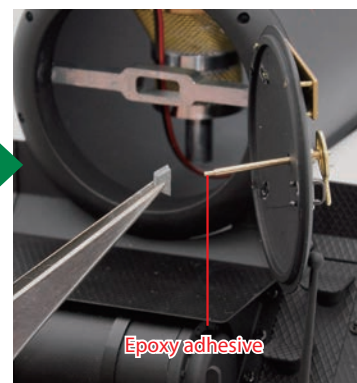
Turn the lever onto the handle as far as it will go.



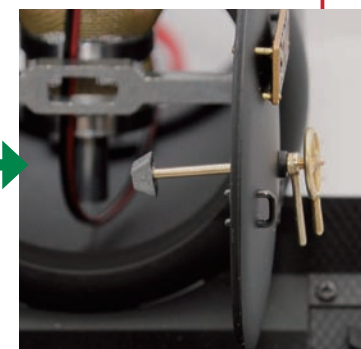
3



Pass the end of the handle into the hole in the centre of the smokebox door.



Apply some epoxy adhesive to the end of the handle. Place the lock onto the end of the handle.



Adjust the position of the lock to match the one shown above.

4



Place three brackets on handrail A, and two onto handrail B, as shown.



Apply synthetic rubber adhesive to the ends of the two brackets holding handrail B, and insert them into the two holes (circled).

Move handrail B through the brackets and apply synthetic rubber adhesive to the points where the brackets were. Then move the handrail back into position.



Fit handrail A and the three brackets in the same way as B. Remove any excess adhesive from the rails and brackets.



Complete



When the lever is rotated the lock on the inside of the smokebox turns in the hole in the centre of the lock bar, holding the door shut.

# The boiler 1

## Your parts



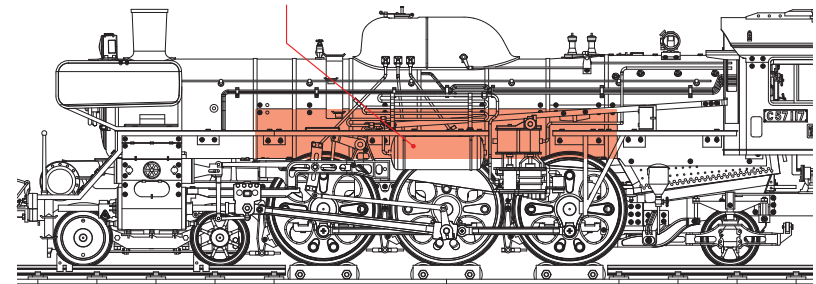
Lower boiler half  
Boiler joints x 2  
Screws (2 x 3mm) x 15

## Tools

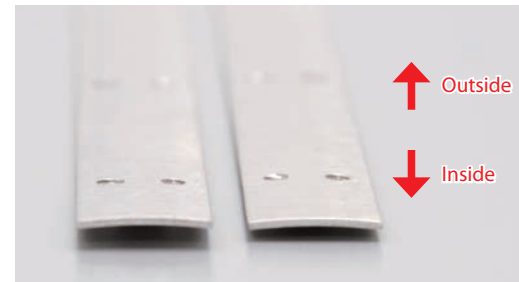
Phillips screwdriver

## Where your parts fit

Boiler bottom

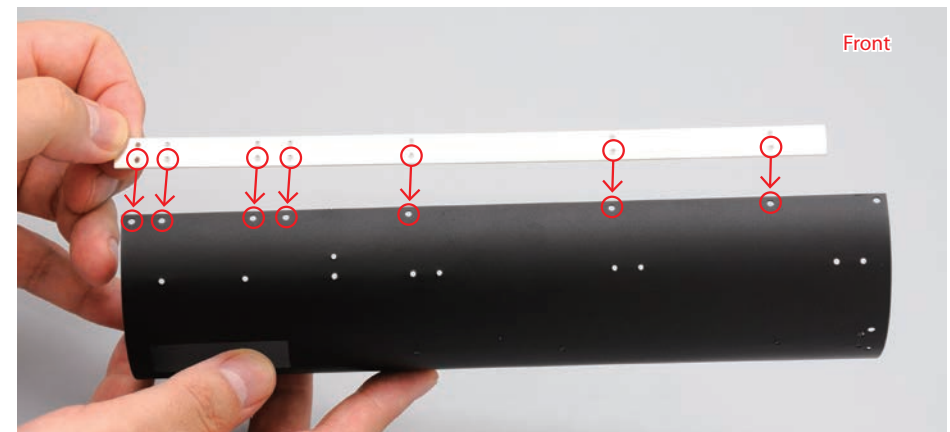


1



Place the boiler joints in front of you, as shown. Identify the outer and inner sides.

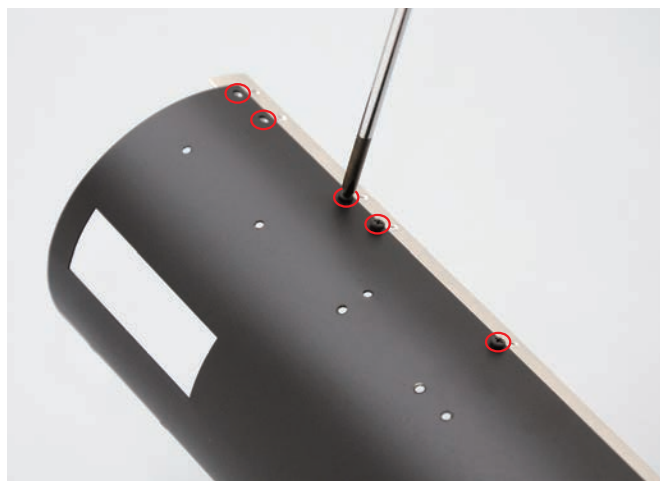
Hold a boiler joint up against the lower boiler half, aligning the circled holes of both parts.



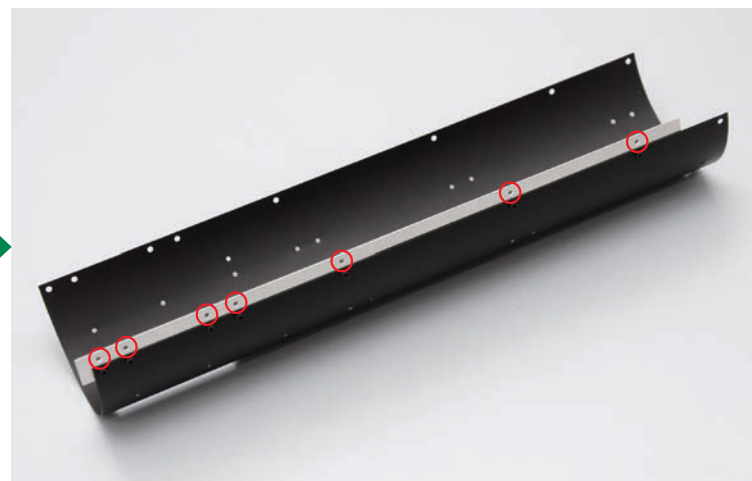




2



Secure the boiler joint to the lower boiler half with seven  $2 \times 3\text{mm}$  screws.



These seven holes should still be visible.

3



Fix the second boiler joint to the other side of the lower boiler half with seven  $2 \times 3\text{mm}$  screws.



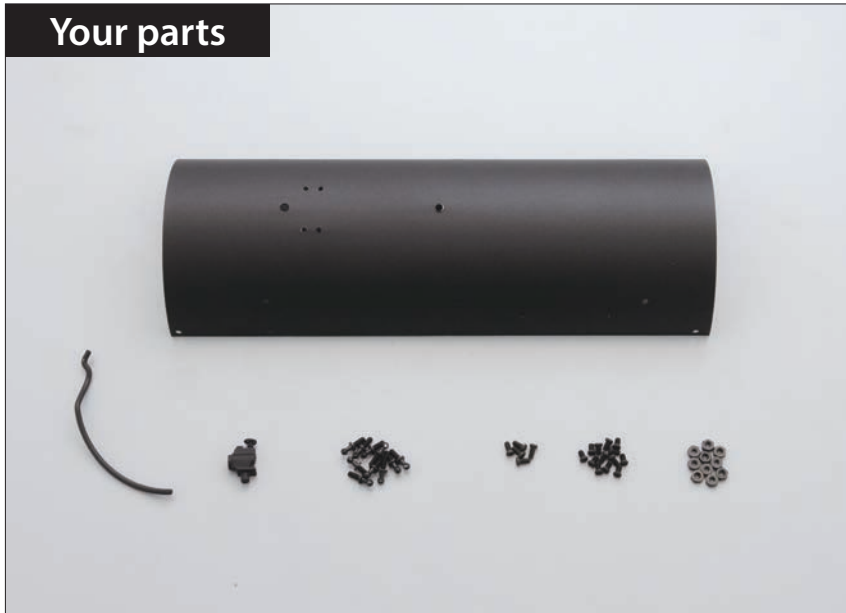
The lower boiler half should now look like this.

**Complete**



# The boiler 2

## Your parts

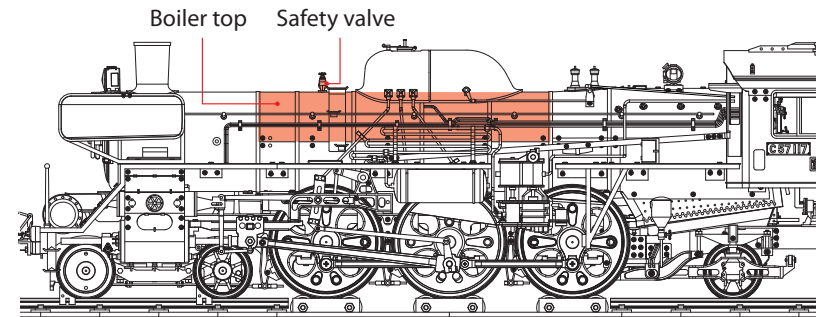


Boiler upper half  
Water supply pipe  
Safety valve  
Handrail brackets × 10  
Screws (2 × 4mm) × 5  
Screws (2 × 3mm) × 13  
Nuts (M2) × 10

## Tools

Phillips screwdriver  
Epoxy adhesive  
Synthetic rubber adhesive  
Tweezers  
Toothpick

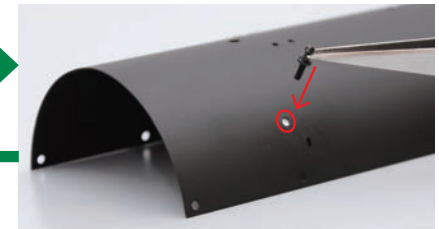
## Where your parts fit



1



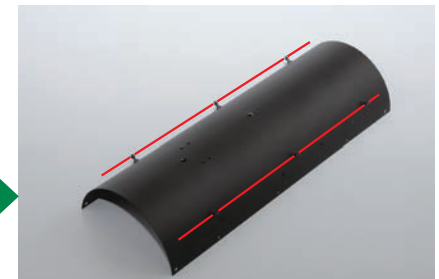
Locate the six holes on the left and right of the boiler upper half. Prepare six handrail brackets and six nuts.



Insert a handrail bracket into one of the holes.

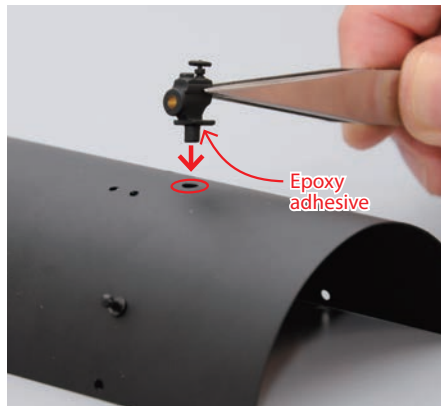


Apply some synthetic rubber adhesive to the inside of the boiler half at the base of the bracket, and tighten a nut onto the end of it.



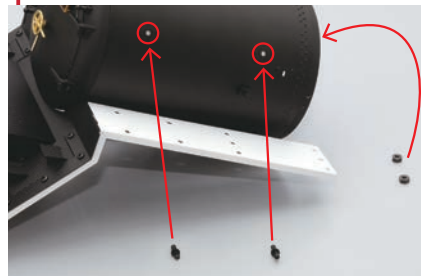
Fit the remaining five handrail brackets to the other holes of the boiler upper half. Before the adhesive dries, make sure that the holes in the brackets are aligned, as indicated by the red lines.

2



Apply epoxy adhesive to the underside of the lip of the safety valve. Make sure the hole is facing to the right of the boiler half, then lower the valve into the circled hole.

3



Prepare two handrail brackets which fit into the two circled holes in the smokebox, and two nuts which go with the brackets.



Apply some synthetic rubber adhesive to the threaded part of the handrail brackets and then insert them into the two circled holes and secure with two nuts.



Align the holes of the handrail brackets before the adhesive dries.



Fit another two handrail brackets on the other side of the smokebox.

4



Remove the screws holding the boiler joint in position.

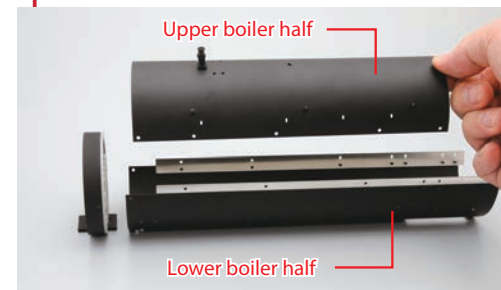


Apply synthetic rubber adhesive to the step (highlighted) on the superheater header (Stage 32), and place it into the boiler joint.



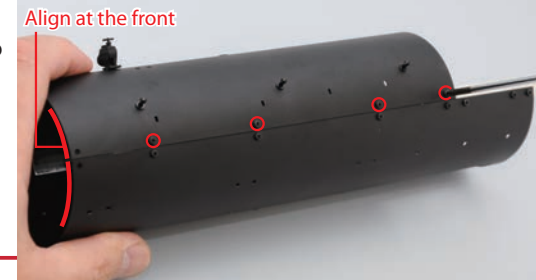
Tap the four holes in the sides of the joint (circles) with 2 x 3mm screws.

5



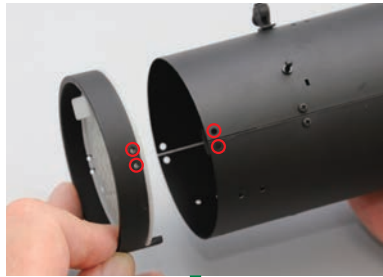
Lower the upper boiler half onto the lower boiler half, aligning the holes of both parts.

Tighten a 2 x 3mm screw into the four circled holes on either side of the boiler.





6



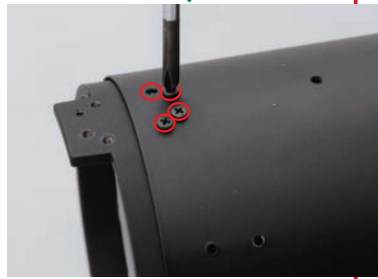
Place the boiler joint into the front of the boiler, aligning the holes at the sides.

Tighten a 2 × 3mm screw into the two circled holes.

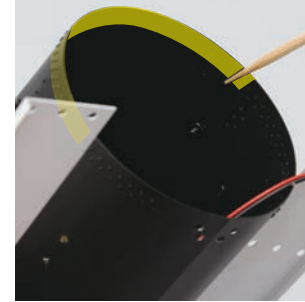


Tighten two more 2 × 3mm screws into the two holes on the other side.

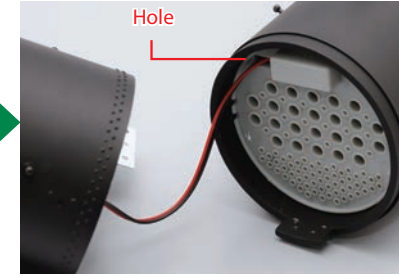
Tighten a 2 × 4mm screw into each of the four holes in the bottom of the boiler.



7



Apply synthetic rubber adhesive to the inside of the upper half of the boiler.



Pass the end of the headlamp cable through the hole in the top of the superheater.

Insert the boiler joint into the rear of the smokebox.



8



Tighten the four screws removed in Step 4 into the holes in the bottom of the smokebox.

If any synthetic rubber adhesive comes through the seam between the smokebox and boiler, remove it with a toothpick.



9



Apply a small amount of synthetic rubber adhesive to the end of the water supply pipe and insert it into the hole in the valve.

Adjust the position of the water supply pipe so that it is in front of the two circled screws.



Complete



# The boiler 3

## Your parts

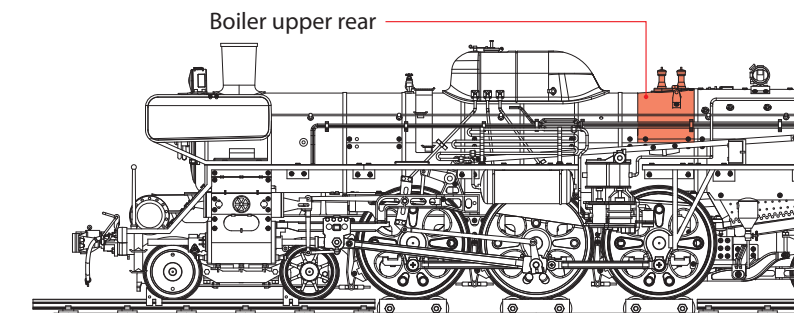


Boiler (tapered section)  
Safety valve cover  
Safety valve base  
Safety valves × 2  
Screws (2 × 3mm) × 7

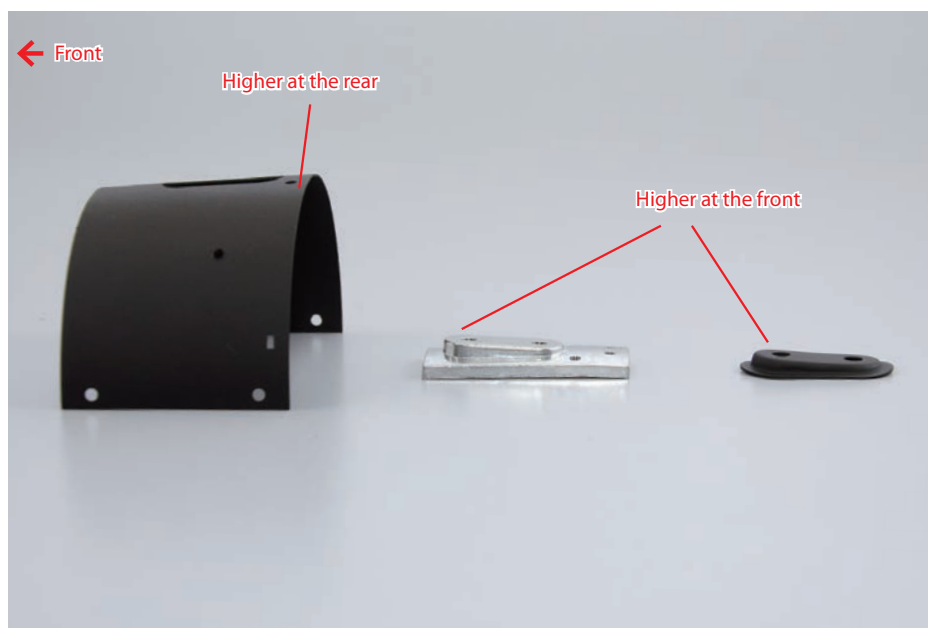
## Tools

Phillips screwdriver

## Where your parts fit



1



Place the tapered section of the boiler, the safety valve base and safety valve cover out, as shown above, to identify the fronts of each of the parts.



2



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



Half-tighten a 2 x 3mm screw into each of the two circled holes.

3



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.

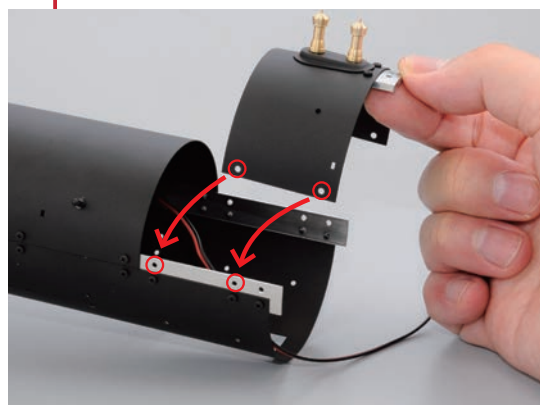


Fully tighten the two screws.



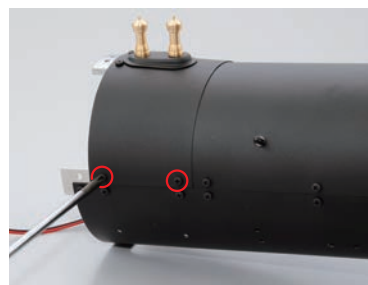
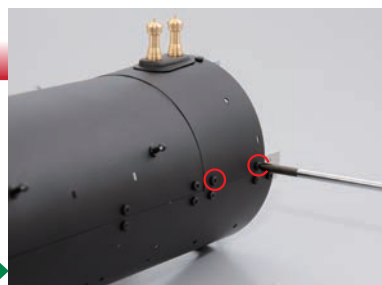
This is how the tapered section of the boiler should now look.

4



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

Tighten a 2 x 3mm screw into the circled holes on the left side of the boiler.



Tighten two 2 x 3mm screws into the holes on the right side of the boiler to secure the tapered section of the boiler in place.

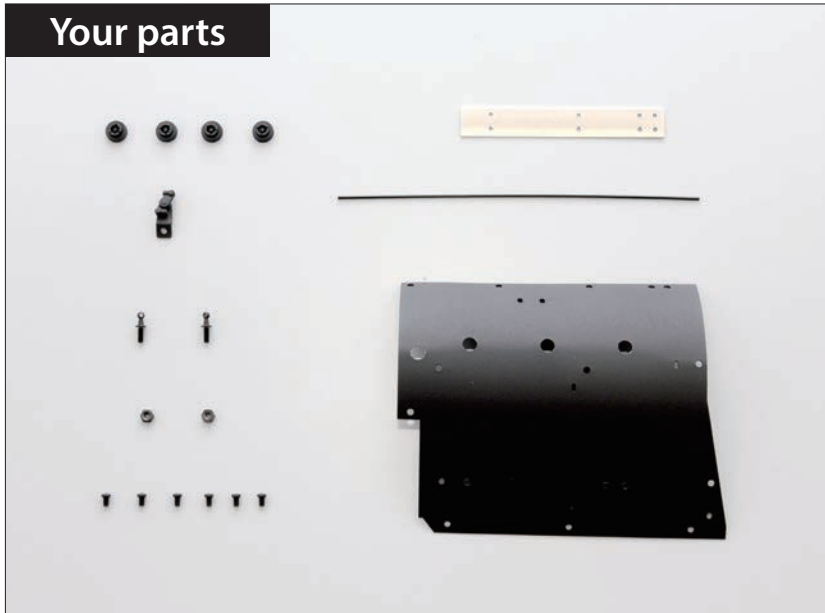
Complete





# The firebox 1

## Your parts

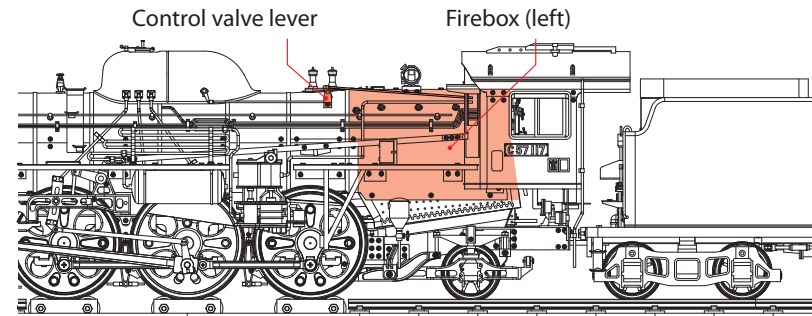


Fusible plugs × 4  
Control valve lever  
Handrail brackets × 2  
Nuts (M2) × 2  
Screws (2 × 3mm) × 6  
Firebox joint  
Control valve rod  
Left firebox half

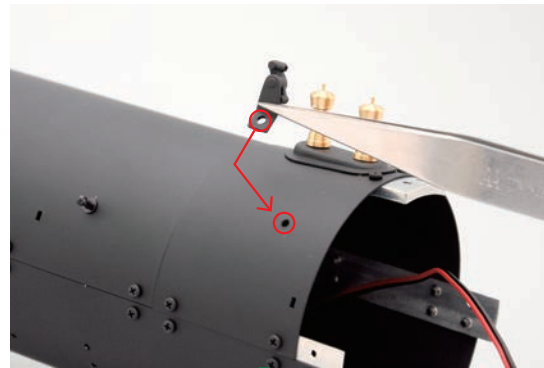
## Tools

Phillips screwdriver  
Synthetic rubber adhesive  
Instant adhesive  
Tweezers

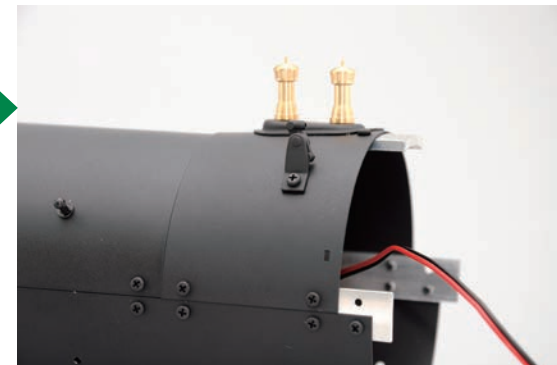
## Where your parts fit



1



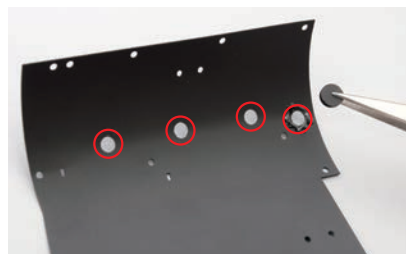
Align the holes of the tapered section of the boiler and the control valve lever.



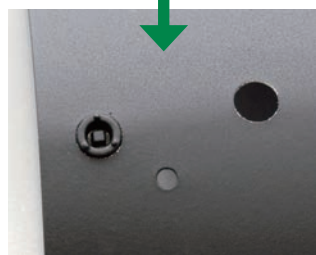
Tighten a 2 × 3mm screw into the aligned holes.



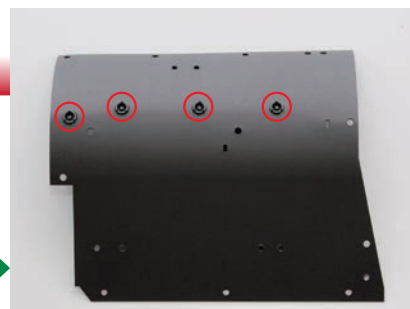
2



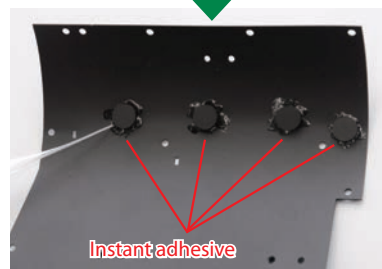
The four holes are the locations for the fusible plugs. Apply synthetic rubber adhesive around the hole on the right on the inside of the firebox half.



Place the first plug into the hole, positioned as shown.

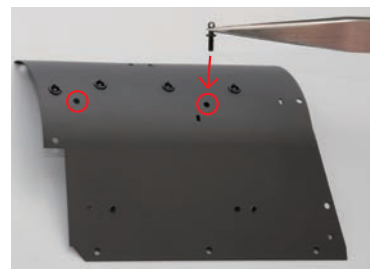


Repeat this process for the remaining three plugs.



Apply instant adhesive to the contact area between the plugs and the inside of the firebox half.

3

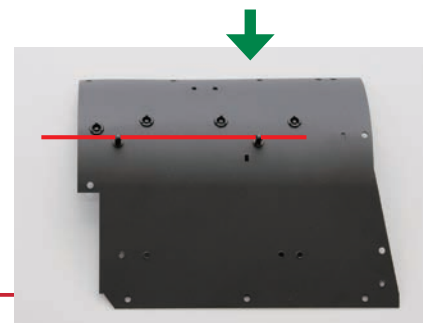


The two circled holes in the firebox half are the locations for the handrail brackets. Insert the first bracket into the hole as indicated.

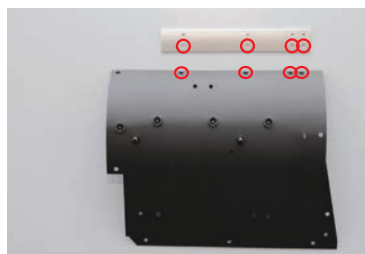


Apply a drop of synthetic rubber adhesive to the end of the bracket, and then tighten a nut onto it.

Fit the second handrail bracket in the same way. Before the glue dries, make sure the holes are aligned.



4

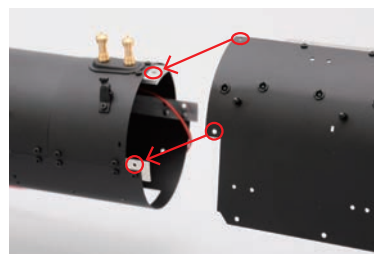


Align the holes in the joint plate with the holes in the left firebox half.

Tighten a 2 x 3mm screw into the two circled holes in the firebox.



5



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

Tighten a 2 x 3mm screw into the holes in the firebox.



Complete

