

Build the

C57

Steam  
Locomotive

Pack 01





# Build the **C57** Steam Locomotive

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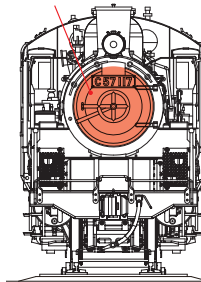
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Warning: Not suitable for children under the age of 14. This product is not a toy and is not designed or intended for use in play. Items may vary from those shown.

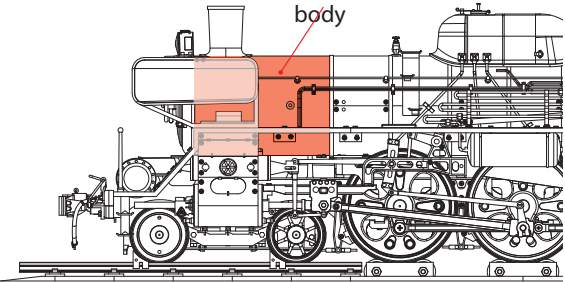
# The smokebox door

## Where your parts fit

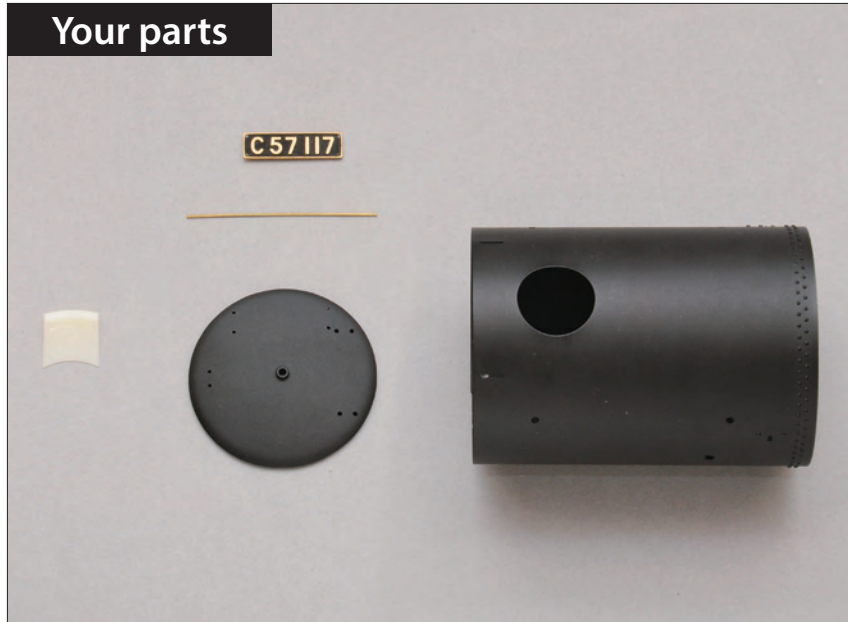
Smokebox door



Smoke chamber body



## Your parts



Number plate  
Brass wire  
Smokebox door  
Mounting jig  
Smokebox

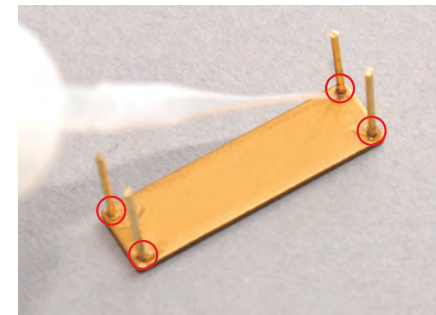
## Tools

Cutters  
Tweezers  
Sandpaper  
Instant adhesive

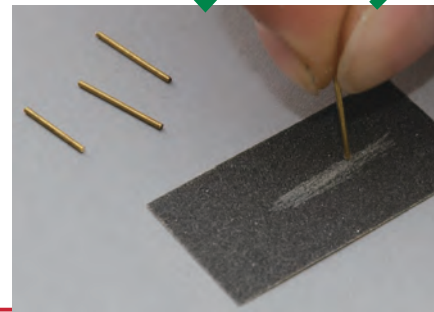
1



Cut the brass wire into four roughly equal lengths.



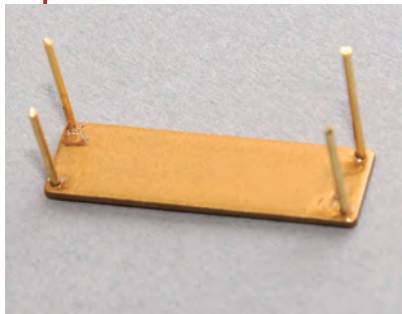
Place the number plate upside down and test-fit the four lengths of wire in the holes in the corners. Adjust the fit if necessary, and apply instant adhesive to secure the four lengths in place.



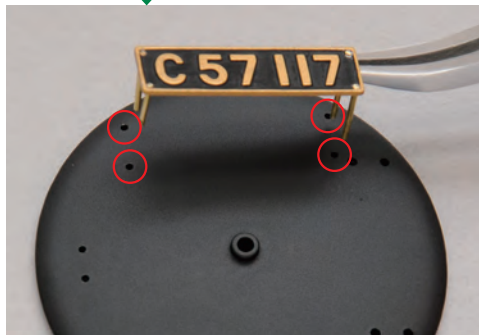
Smooth the ends of the lengths of wire with sandpaper to remove any rough or sharp edges.

3

2

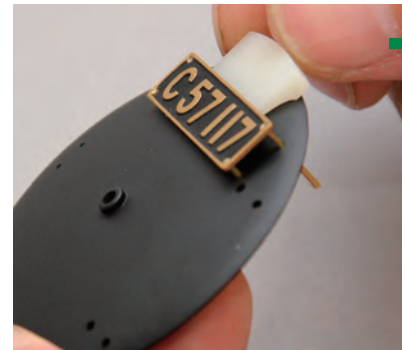


The instant adhesive can take a few minutes to set, so leave the number plate to one side.

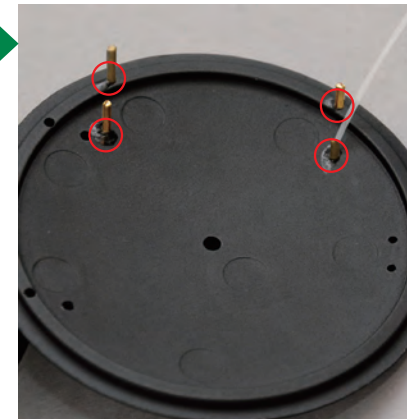


When dry, insert the four lengths of wire on the back of the number plate into the four holes on the smokebox door, as shown.

3



Insert the mounting jig between the number plate and the door, at the top.



Turn the smokebox door over and apply instant adhesive to the holes where the lengths of wire are coming through.

## Tips



Instead of cutting the brass wire into four equal lengths, you can cut two long and two shorter pieces, as shown.

You can also cut the ends of the wire at an angle, to make it easier to insert them into the holes.



4



Once the adhesive has dried, remove the mounting jig and cut away the protruding lengths of wire from the back of the smokebox door.

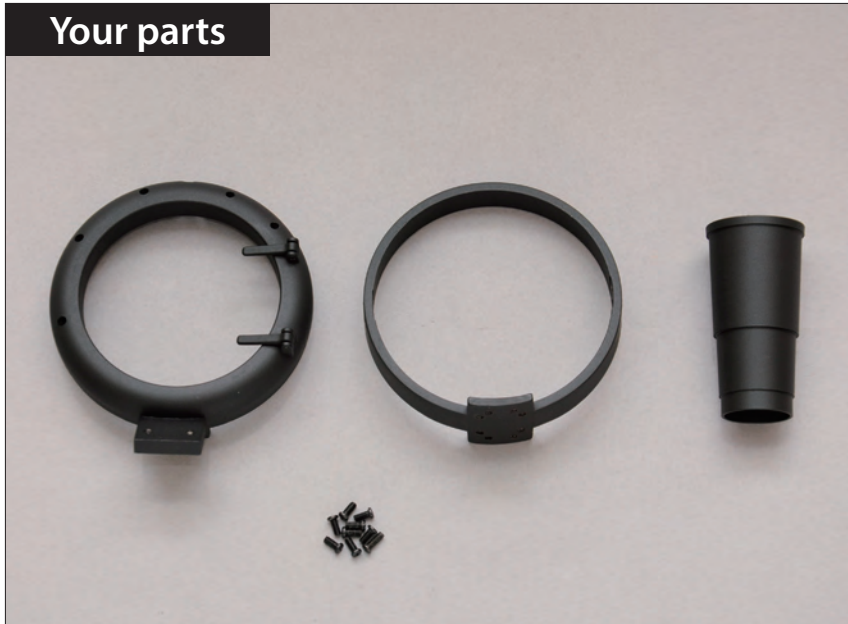
## Complete





# The smokebox

## Your parts

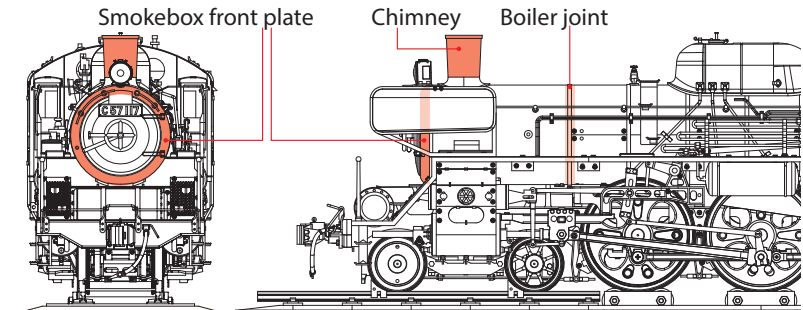


Smokebox front plate  
Boiler joint  
Chimney  
9 screws 2 x 4mm

## Tools

Phillips screwdriver  
Instant adhesive  
Multi-purpose adhesive  
Masking tape

## Where your parts fit



1



Place the smokebox door onto the smokebox front plate.



Close one of the hinges, inserting the pins into the corresponding holes in the smokebox door.

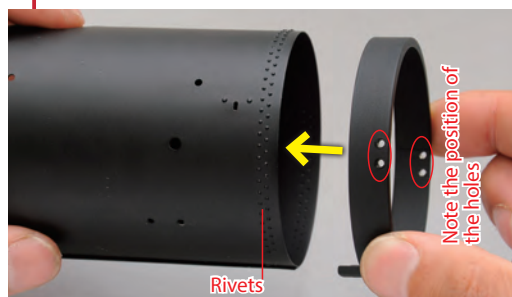


Close the other hinge into the smokebox door as well.

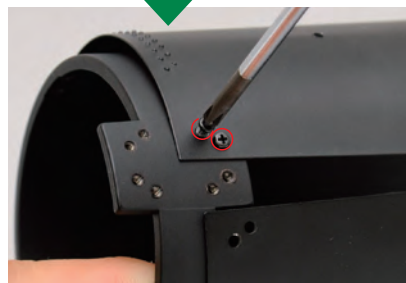


Open the smokebox door, and apply a small amount of instant adhesive to the holes housing the hinge pins (circled).

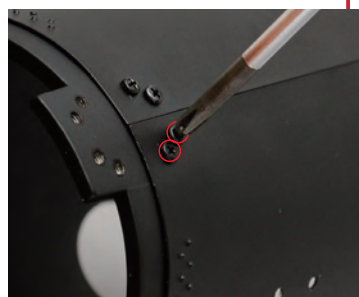
2



Hold the boiler joint as shown, and place it into the riveted end of the smokebox.



Align the circled screw holes and tighten two 2 x 4mm screws into them.



Align the other two holes of the smokebox with those in the boiler joint, and secure with another two 2 x 4mm screws.

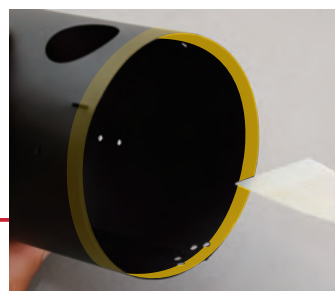
3

Fasten the smokebox door closed with some masking tape.

Apply some multi-purpose adhesive around the inside of the front of the smokebox (yellow-shaded area).



Push the smokebox door into place at the front of the smokebox, and secure it with four 2 x 4mm screws (circled).



## Tips



Use a toothpick to remove any excess multi-purpose adhesive from the smokebox before it dries.



Fold one end of the masking tape securing the door over on itself, so it is easier to remove when needed.



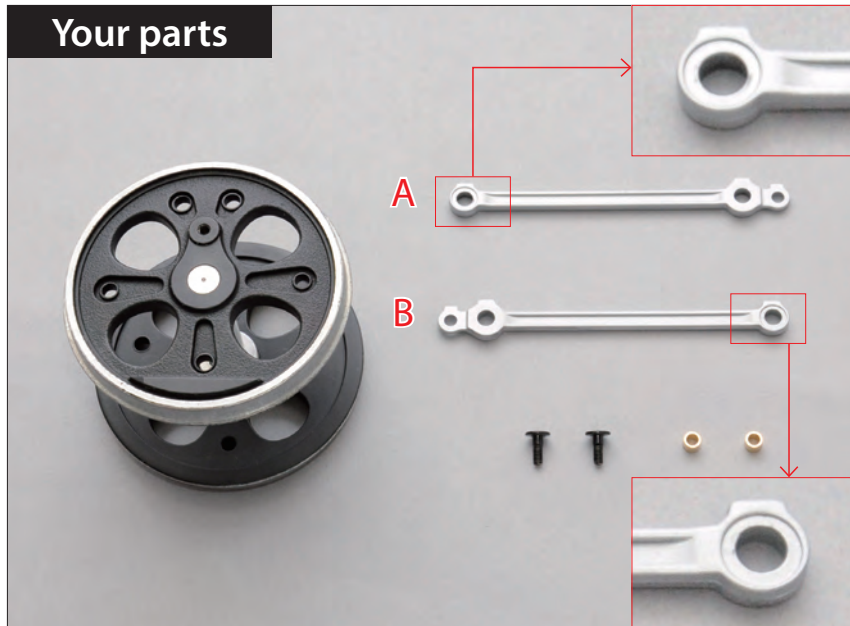
Don't force the screws, as you may damage the paint. Tighten them in turn, a little at a time, easing them in.

## Complete



# The first driving wheels and coupling rods

## Your parts

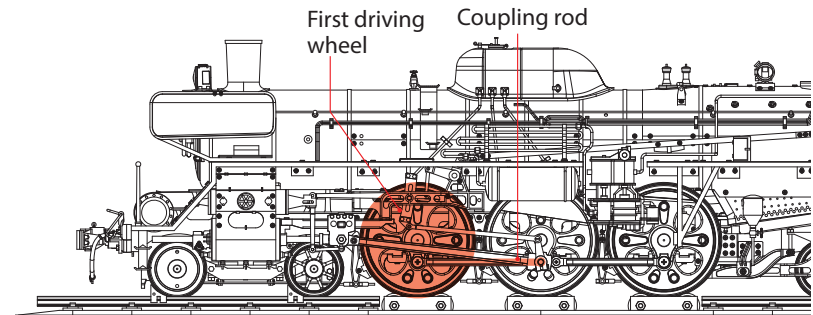


First driving wheels  
Coupling rod A  
Coupling rod B  
Rod pins × 2  
Bushes × 2

## Tools

Tweezers  
Phillips screwdriver  
Flat file  
Sandpaper

## Where your parts fit



1



Check along the length of each coupling rod for any burrs or flash left over from the casting process.



Use a flat file to remove the burrs or flash, then smooth over the surface with sandpaper.



2

Recess

No recess

The outsides of the coupling rods have recesses around the holes.



Insert a bush into the hole in the coupling rod.

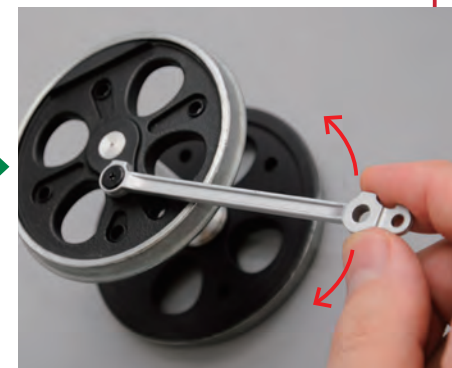


Align the hole at the end of coupling rod A with the circled hole in the wheel.

3



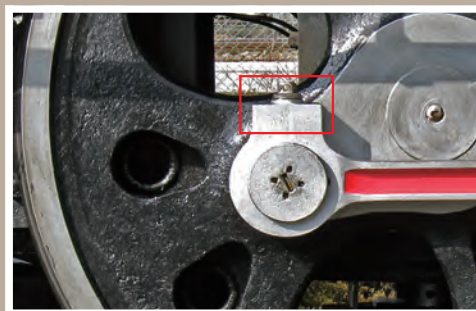
Insert a rod pin through the bush at the end of the rod, and screw it into the wheel. This will secure the coupling rod to the wheel.



Check that the rod rotates smoothly around the pin.

Tip

The projection on the square top of the end of the connecting rod is called the 'oil pot', and it supplies lubricating oil to the moving parts.



4



Repeat Steps 2 and 3 to fit coupling rod B to the other side of the wheels.

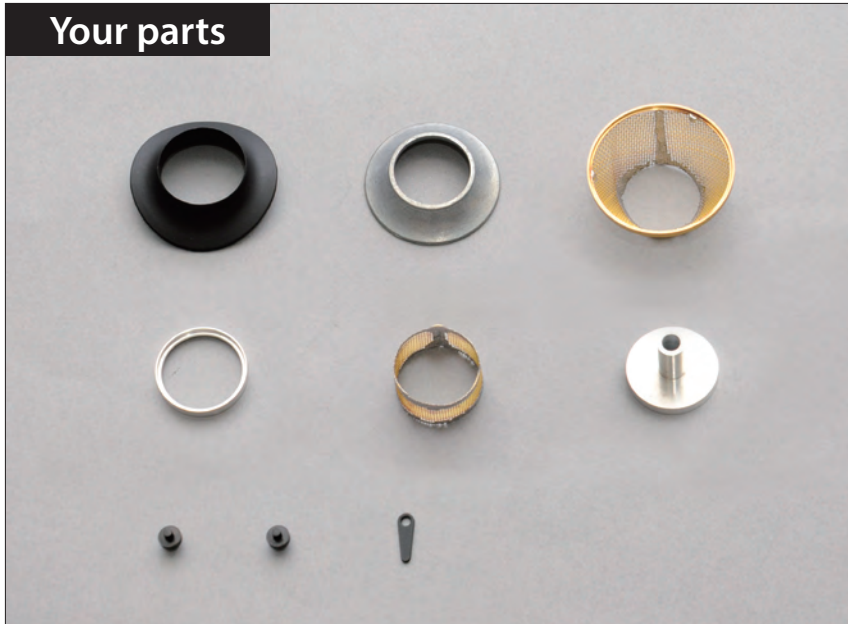
Complete





# The chimney, spark arrester and blast pipe

## Your parts

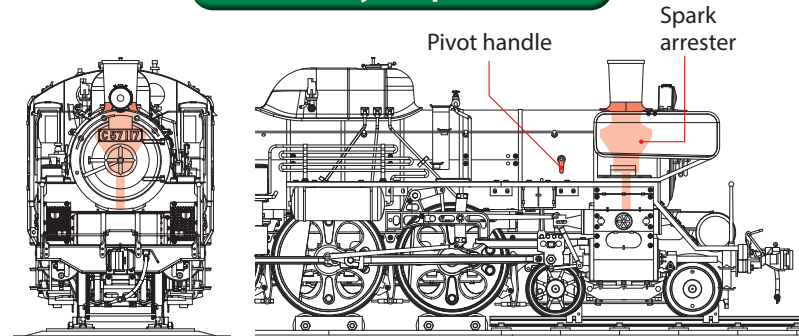


Chimney lip  
Spark arrester lip  
Spark arrester mesh (flared)  
Spark arrester ring  
Spark arrester mesh (cylinder)  
Blast pipe  
Pivots x 2  
Pivot handle

## Tools

Tweezers  
Multi-purpose adhesive

## Where your parts fit



1



Take the chimney from Stage 2 and apply multi-purpose adhesive around the mid section just below the step, as shown.



Place the chimney lip onto the chimney, pushing it up to the step.



Apply multi-purpose adhesive to the part of the chimney, below the lip, and insert the base of the chimney into the hole in the smokebox.

Look at the smokebox from the front, and adjust the position of the chimney to ensure that it is aligned as shown.



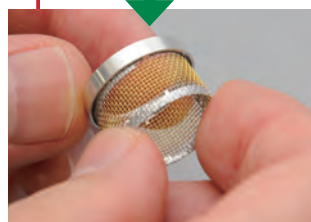
# 2



Before assembling the spark arrester, you need to identify the differences between the two sides of the ring. On one side, the outer edge is thin and on the other side it is thick. The ring fits between the flared and cylindrical spark arrester meshes.

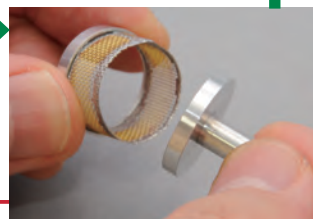


Glue the flared mesh onto the other side of the ring.



Glue the thick edge (bottom) of the ring onto the cylindrical mesh.

Glue the blast pipe onto the other end of the cylindrical mesh.



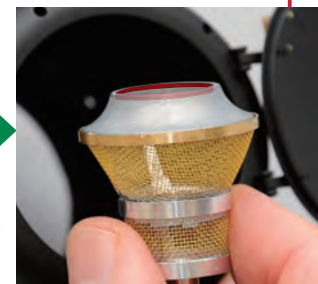
Glue the spark arrester lip into the end of the flared mesh.

# 3



The spark arrester fits onto the bottom of the chimney, up against the step indicated here.

Apply multi-purpose adhesive to the inside of the spark arrester lip.



Place the spark arrester onto the bottom of the chimney.

Make sure the spark arrester stays in position as the glue dries.



# 4



The pivots have a thin end and a thick end.



Glue the thick ends of the pivots into the central holes towards the rear of the smokebox, one on either side.



Glue the pivot handle onto the pivot on the right-hand side of the smokebox.

# Complete

