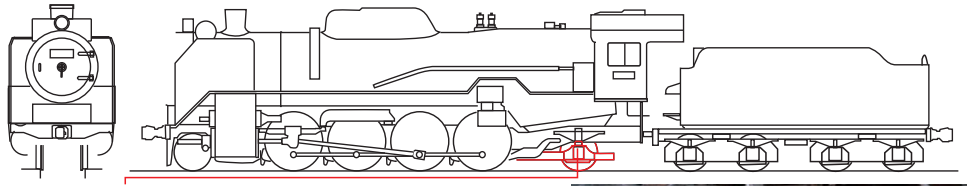
The trailing wheels



The trailing wheels

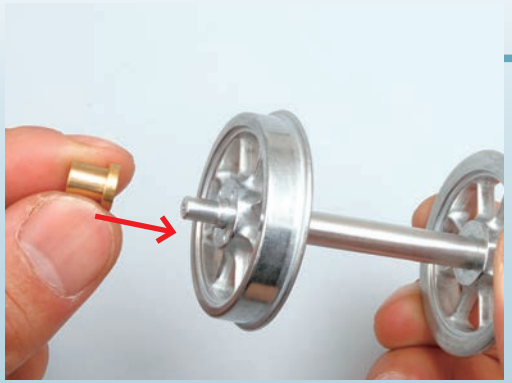
Your parts

Trailing wheels
End beam
Trailing wheel bushes × 2
Rollers × 2
Screws (2 × 3mm) × 14
Screws (2 × 5mm) × 3

Required tools

Phillips screwdriver

1 Fitting the bushes



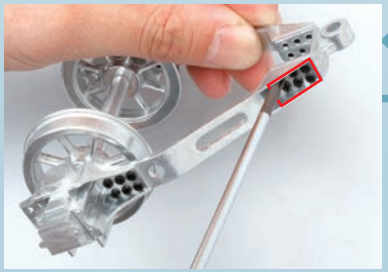
Place one of the bushes over the axle projecting from the side of the wheel.

Place the second bush on the other end of the axle.

2 Fitting the trailing wheels

Loosen the screws that hold the trailing truck beams to the pivot housing.

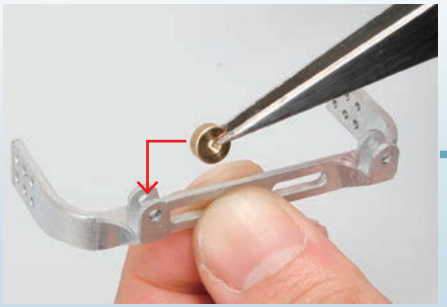
Spread the two beams apart and insert the bushes at the ends of the axles into the two trailing trucks.



Re-tighten all the screws that were loosened.

Make sure that the trailing wheels turn. If they don't, try loosening the screws and re-positioning the wheels.

3 Fitting the rollers



Place one of the rollers in between the semi-circular projections of the end beam.

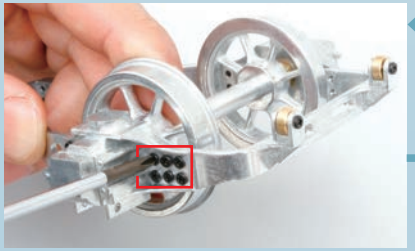
Place a 2 x 5mm screw through the end beam and roller and tighten into place.

Repeat this process to fit the second roller in the end beam.

4 Fitting the end beam

Place the trailing truck assembly and the end beam as shown above.

Place the ends of the end beam inside the trailing trucks, aligning the holes of both.

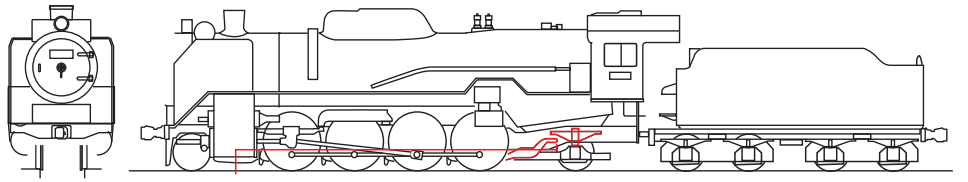


Tighten a 2 x 3mm screw into each of the six holes.

Align the screw holes on the other side and tighten a 2 x 3mm screw into each of them.

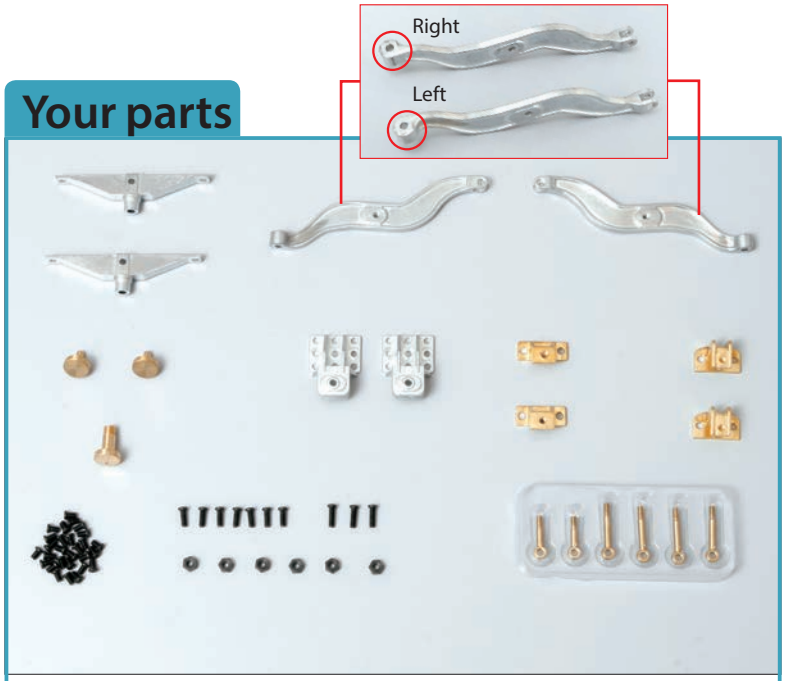
Assembled parts

The trailing truck



The trailing truck equalisers and leaf springs

Your parts

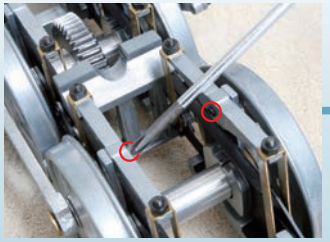


- Right trailing wheel equaliser
- Left trailing wheel equaliser
- Trailing wheel leaf springs × 2
- Spring mounts × 2
- Counterbalance bracket × 2
- Equaliser mounts × 2
- Slide blocks × 2
- Pivot screw
- Spring counterbalances (long) × 4
- Spring counterbalances (short) × 2
- Nuts × 6
- Screws (2 × 6mm) × 3
- Screws (2 × 5mm) × 7
- Screws (2 × 3mm) × 28

Required tools

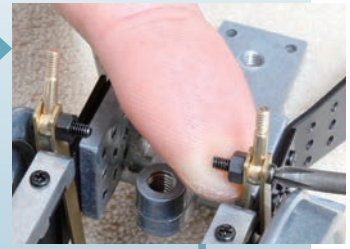
- Phillips screwdriver
- Flat-head screwdriver
- Instant adhesive
- Contact adhesive

1 Preparing the underframe

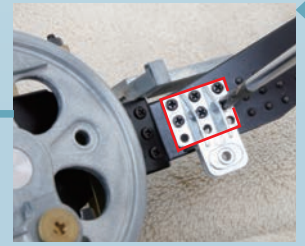


Remove the screws that hold the leaf spring to the fourth wheels and put to one side.

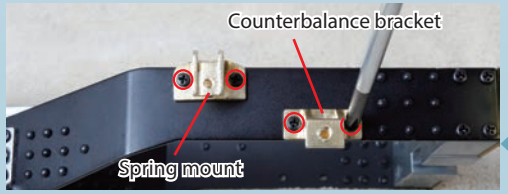
Turn the underframe over, and remove the screws and nuts of the suspension links.



Put a short spring counterbalance between the links, pass the screw through the hole and tighten the nut over it.



Fit the two equaliser mounts onto either side of the underframe, behind the fourth wheels, with 2 x 3mm screws.

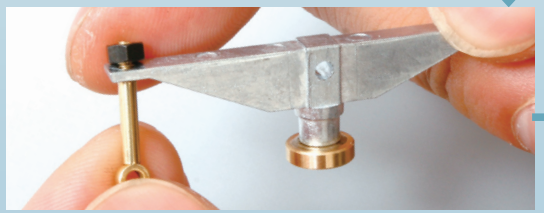


Screw a spring mount and counterbalance bracket into place on either side of the underframe with 2 x 3mm screws.

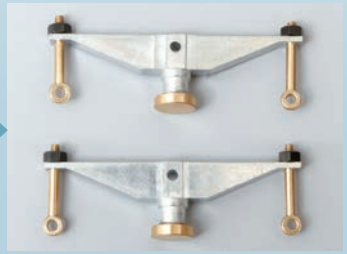
2 Assembling the leaf springs

Apply a small amount of instant adhesive to the hole in the leaf spring.

Insert the slide block into the hole in the spring.



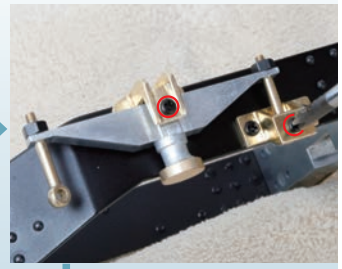
Place a long leaf spring counterbalance through the hole at the end of the spring and secure with a nut.



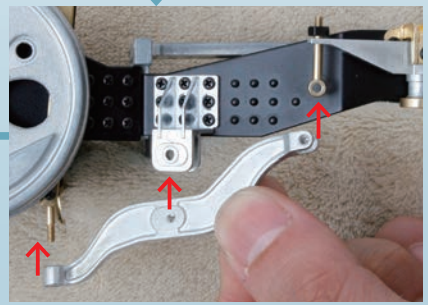
Repeat this process until both leaf springs are prepared.

3 Fitting the trailing wheel equalisers

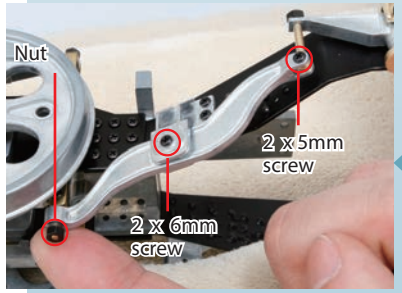
Place the spring in the spring mount and the leaf spring counterbalance into the counterbalance bracket. Align the holes of the parts.



Tighten a 2 x 5mm screw into each of the holes.

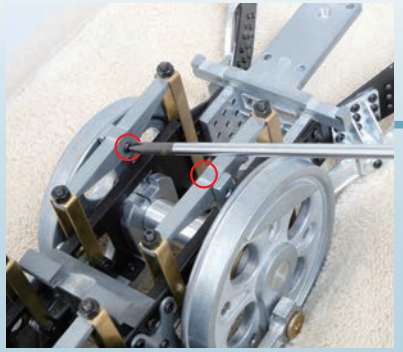


Take the left trailing wheel equaliser and align the three holes with the three in the short and long counterbalances and the equaliser mount.

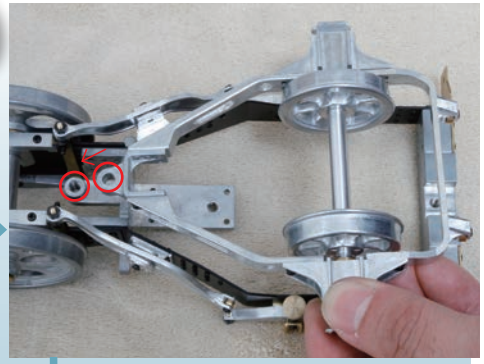


Tighten a nut over the end of the short counterbalance, a 2 x 6mm screw into the equaliser mount and a 2 x 5mm screw into the long counterbalance. Then repeat for the right equaliser.

4 Fitting the trailing truck

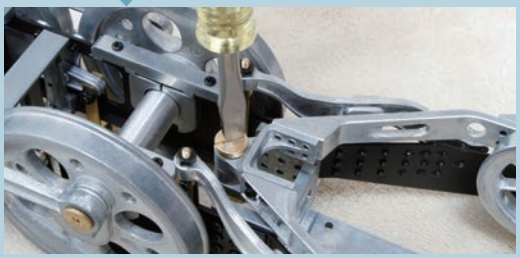


Re-tighten the screws removed in Step 1 back into the leaf springs.

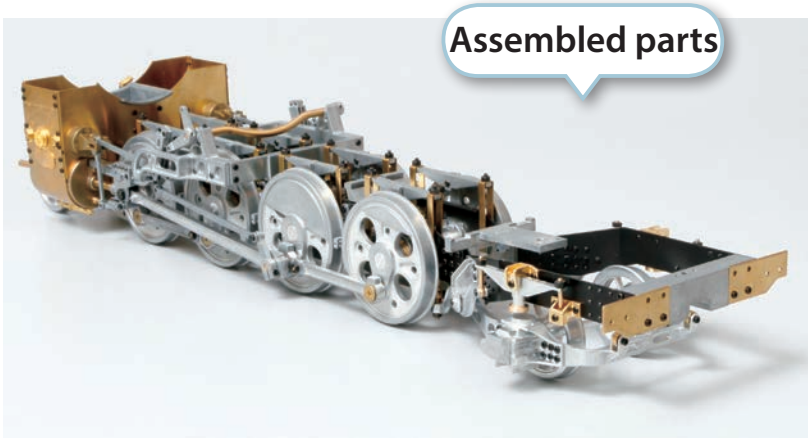


Turn the assembly over and align the holes of the underframe and the trailing truck, as shown.

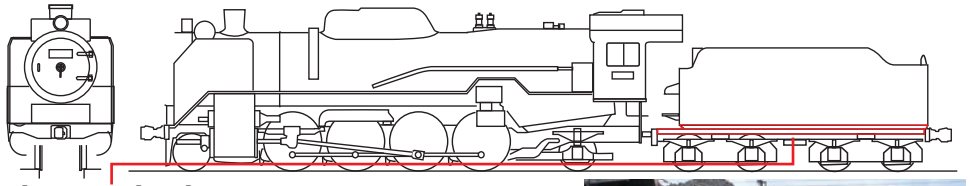
Apply some contact adhesive to the thread of the pivot screw, and tighten it into the aligned holes of the trailing truck and underframe.



Assembled parts



The tender base


The tender base

Your parts

Tender base
Left tender underframe
Right tender underframe
Screws (2 × 3mm) × 9

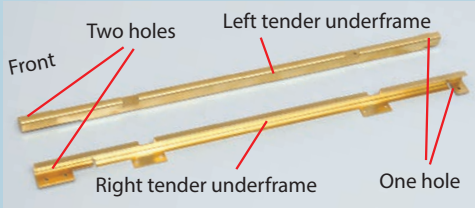
Required tools

Screwdriver

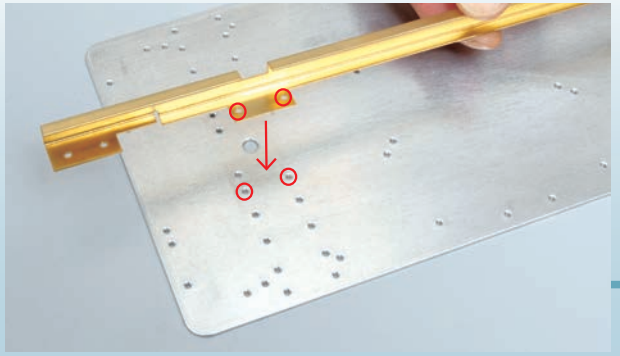
1 Preparing the parts

To distinguish between the front and rear of the tender base, look at the holes at either end. The only screw holes used in this stage are highlighted above.

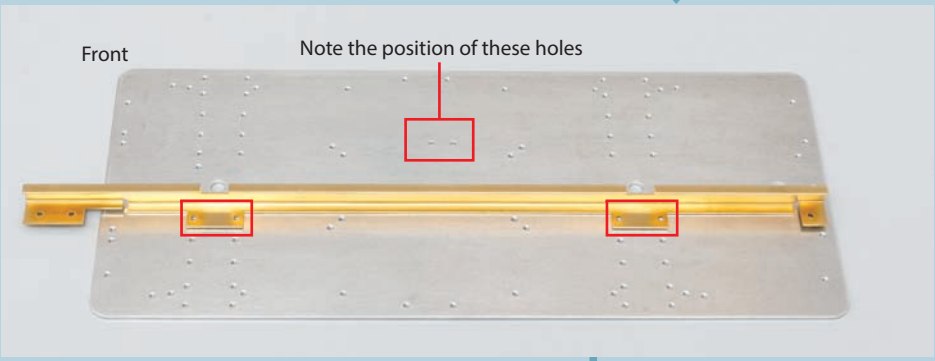
The tender underframes can be identified by the number of screw holes at either end.



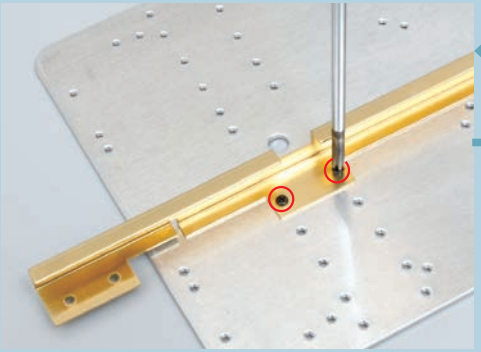
2 Mounting the right tender underframe



Place the right tender underframe onto the tender base, aligning the circled holes.

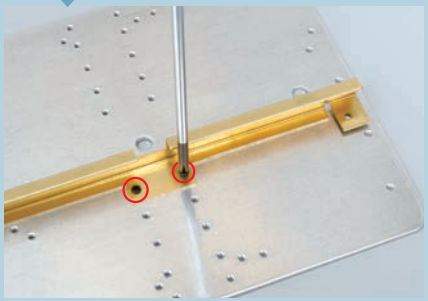


Match up all the holes along the underframe with those on the base, so that your assembly looks like the one above.

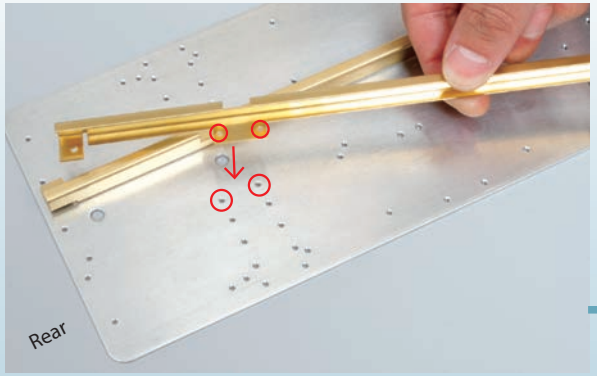


Tighten a 2 x 3mm screw into each of the two holes towards the front of the underframe.

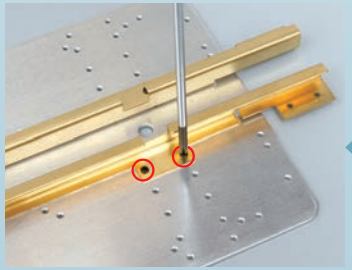
Now tighten a 2 x 3mm screw into each of the two holes towards the rear of the underframe.



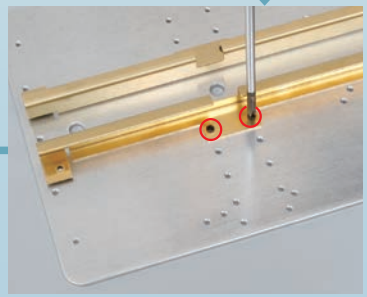
3 Mounting the left tender underframe



Turn the base around, and align the two holes towards the rear of the left underframe with those in the base.

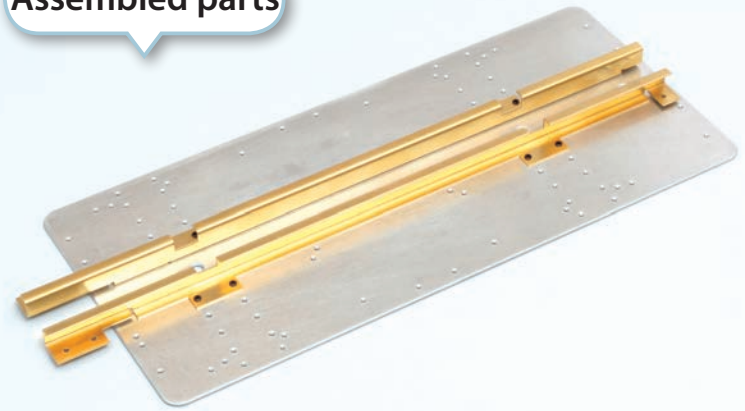


Tighten two 2 x 3mm screws into the holes towards the front of the left underframe.

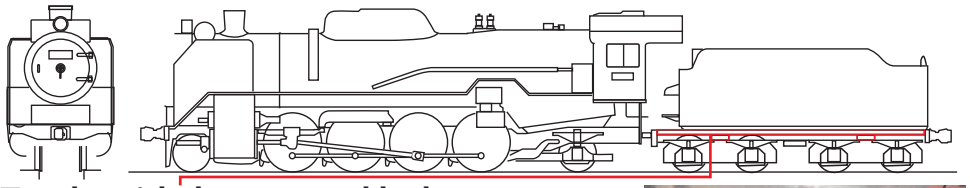


Tighten a further two 2 x 3mm screws into the holes at the rear.

Assembled parts

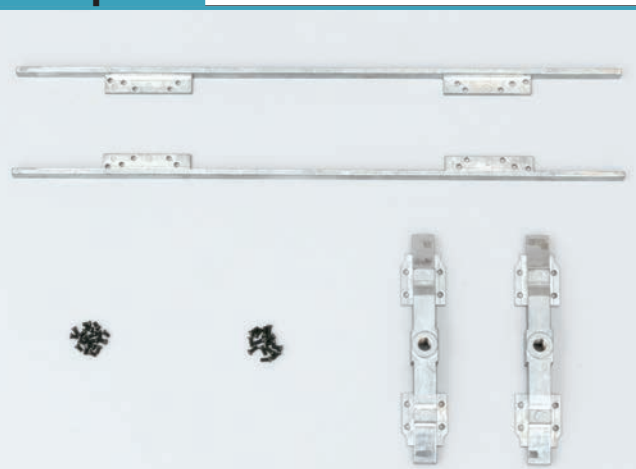


The tender side beams and bolsters



Tender side beams and bolsters

Your parts

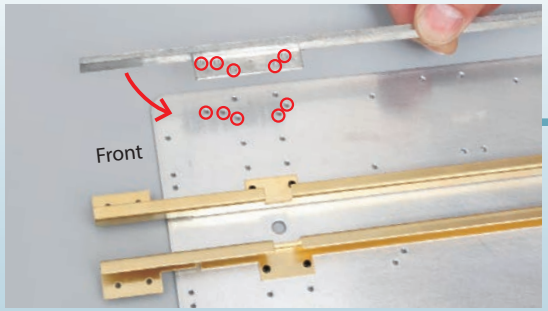


Tender side beams × 2
Screws (2 × 4mm) × 14
Screws (2 × 3mm) × 18
Bolsters × 2

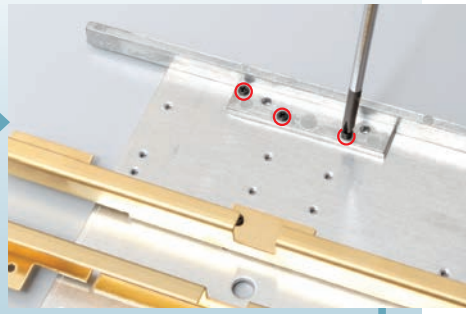
Required tools

Phillips screwdriver

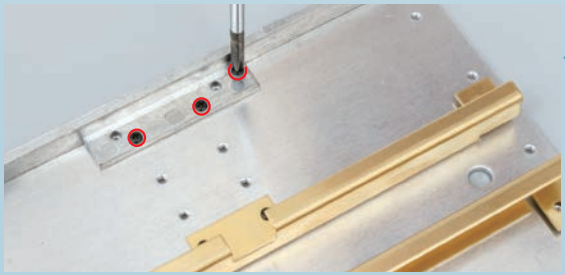
1 Fitting the first side beam



Place the tender base as shown, and position one of the side beams at the side of the base, aligning the circled holes.

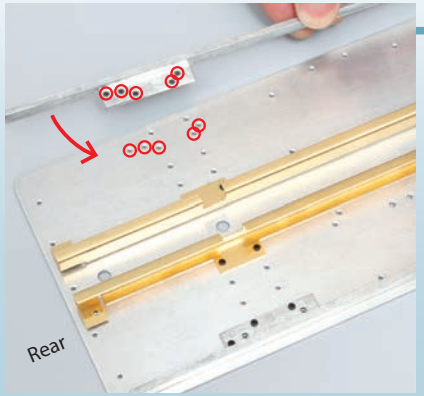


Tighten a 2 x 4mm screw into each of the three circled holes.

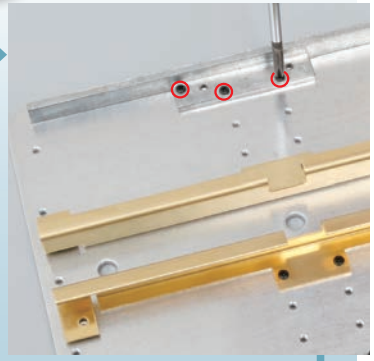


Tighten a 2 x 4mm screw into each of the three circled holes towards the rear of the side beam.

2 Fitting the second side beam



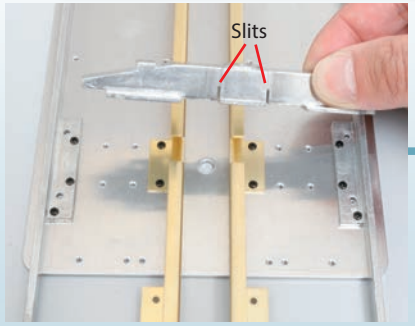
Turn the base around and place the second side beam onto the other side of it, aligning the circled holes.



Tighten a 2 x 4mm screw into the three circled holes in the tab at the rear of the side beam.

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

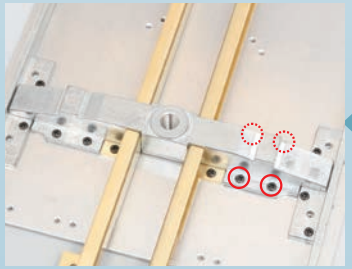
3 Fitting the first bolster



Place the first bolster towards the front of the assembly, engaging the slits in the bolster with the underframes.

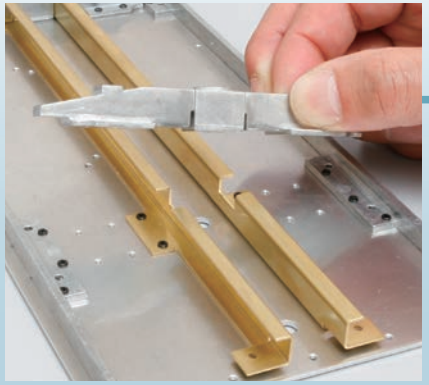
Make sure the bolster is resting flush with the tender base.

Tighten four 2 x 3mm screws into the circled holes in the bolster.

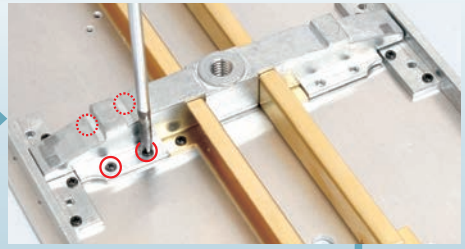


Tighten four more 2 x 3mm screws into the other end of the bolster.

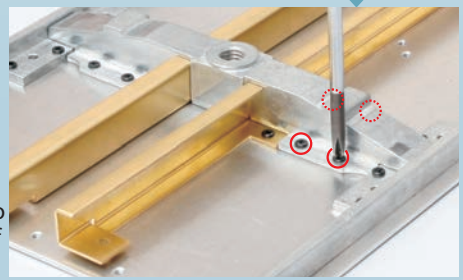
4 Fitting the second bolster



Place the second bolster into position in the underframes towards the rear of the tender base assembly.



Tighten four 2 x 3mm screws into one side of the tender.



Tighten four 2 x 3mm screws into the other end of the bolster.

Assembled parts