



Thank you very much for choosing the SL79 model kit by ELEKTRIKKEN!

Your model kit has been carefully put together and checked. If you should nevertheless have reason for complaint, you can contact ELEKTRIKKEN at any time.

Please read the instructions carefully. They contain important information to ensure that you can assemble the model without any problems.

ATTENTION

Please read and follow the hazard warnings on page 3 first. Use this kit at your own risk.

Overview of the included parts

- Car bodies, A and B section (#6151 – painted; #6101, #6102 – not painted)
- chassis with bogies (pre-assembled)
- Separate bogie covers
- Transparent coloured lenses (clear, red and orange) for headlights, indicators, etc.
- Dummy couplings, people catcher for chassis, and antenna
- Milled acrylic glass window panes for side and door windows with imprinted black window frames
- Curved front and rear windscreen
- Windshield wipers and rear-view mirrors made of photo-etched nickel silver
- Metal pantograph (Sommerfeldt #707)
- Decal sheet with line and destination displays as well as road numbers and other labelling

Halling drives can be used for motorisation:

2 pieces ANT-ALX-210-H0

2 pieces ETH-DGB-210

These parts are not included in the package.

Materials & tools required

- **Paints**

- We recommend using model paints that are suitable for painting synthetic resin and nickel silver (Tamiya, Mr. COLOR primary, Elita silk matt, etc.). Priming may be necessary (at least on the nickel silver parts). Follow the paint manufacturer's instructions.
- In principle, it is possible to use paints from different manufacturers. However, you should try out on a test object (e.g. a piece of plastic) to see whether the colors are compatible or cause an unwanted reaction.

Colour	Paints recommended
White	(1) Elita RAL 9010 or (2) Mr. COLOR 1
Black	(1) Elita RAL 9005 or (2) Mr. COLOR 2
Dark blue	(1) Elita RAL 5002 + RAL 5010 (ratio 1 : 1) or (2) Mr. COLOR 322
Light blue	Mr. COLOR 1 + 80 + 323 (ratio 3 : 2 : 1) The colour can also be mixed from other manufacturers' colours. It is made up of white, a red-tinged blue (e.g. cobalt blue) and a more green-tinged blue (e.g. sky blue). The ratio is approximately 3 : 2 : 1.
Graphite grey	(1) Elita RAL 7024 or (2) Revell 78
Brown	(1) Elita RAL 7006 (2) Tamiya XF-52 Flat earth

- Masking tape (e.g. Tamiya, Mr. Hobby)

- **Tools and supplies**

- Superglue
- For fixing the windows:
 - Superglue that does not tarnish clear parts (e.g. <https://www.bergswerk.de/bergswerk/hochleistungsklebstoffe/83106/>)
 - or: gel-like glue such as Revell Contacta Liquid Special (<https://revell.de/shop/product/contacta-liquid-spezial>)
- Sanding paper (400 and 1000 grit)
- Cutter/craft knife
- If applicable, airbrush for painting

Hazard warnings, instructions for use

Detailed, true-to-scale small series model for adult collectors. Not suitable for children under 14 years of age. The product and packaging contain small parts that may pose a choking hazard. Components of the product have functional sharp corners, points and edges. Follow the manufacturer, safety and usage information on and in the packaging of the product and keep it in a safe place.

Instructions for use of the product:

Always wear a suitable respirator when painting and ensure that the premises are adequately ventilated. The same applies to the use of other substances containing solvents (e.g. superglue). Gloves should be worn during the entire assembly of the product. The assembly and use of this product is always at your own risk. The manufacturer accepts no liability for damage resulting from the use of the product.

The model or its individual parts must not be exposed to heat, cold or excessive sunlight. Do not store the model near a heater or outdoors, but at room temperature at all times. The parts of the model must not be crushed or compressed, as this will cause them to bend permanently.

Preparation for painting

This section is only relevant if you have bought an unpainted model kit.

The car bodies may still have traces of the 3D printing in some places, i.e. layer lines or remnants of supports. If these residues bother you, you can smooth them out with 400 grit sandpaper. When sanding, be careful not to destroy any details such as fan grilles or flaps. These parts are best covered with masking tape beforehand.

Once this is done, the entire body can be polished again with 1000 grit sandpaper.

Before painting, it is advisable to clean the car body once again with cold soapy water to remove abrasion from sanding. The parts should then be left to dry at room temperature for several hours.

Painting

Painting the chassis

Before painting, you can remove the joint cover in the centre of the chassis and paint it together with the body. The part is only push-fitted.

After painting, you should glue the joint cover firmly to the chassis.

You can first paint the chassis completely in brown (e.g. Tamiya flat earth or Elita beige grey) from above and completely in black from below.

You can then paint the details on the top of the floor panel with a brush: all the seats are given a grey seat and a blue back panel. The wind catchers can be painted yellow.

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Painting the car body

The entire paint job should be carried out with an airbrush - nozzle diameter 0.3mm to 0.6mm.

Elektrikken applies the colour for the painted models in the following order: Dark blue - white - light blue - dark grey (roof). This has advantages when masking. However, you can also paint the model in any other order.

We recommend thinning the paint sufficiently before spraying (e.g. 60:40 ratio paint to thinner - this refers to the use of Elita paints). The colours should dry sufficiently long. Then mask the model with masking tape and apply the next coat of paint.

The accessories (e.g. couplings, bogies, people catcher) can be painted with a fine brush. Make sure to use a 50:50 diluted paint for this. The axles and wheels of the model should not be painted, otherwise they will no longer move.

Never remove the wheelsets from the bogie as this can break the bogie frames.

Attention!

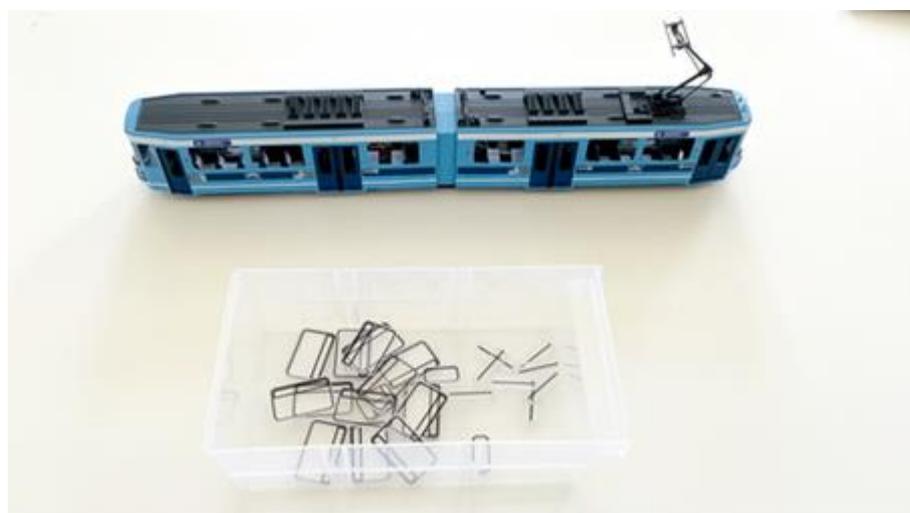
When painting, always ensure that you are adequately protected from harmful substances and fumes. Observe the hazard warnings for the paints you are using (not included in the scope of delivery).

Elektrikken is not liable for any damage that occurs during the painting process that you carry out on your own responsibility.

Assembly

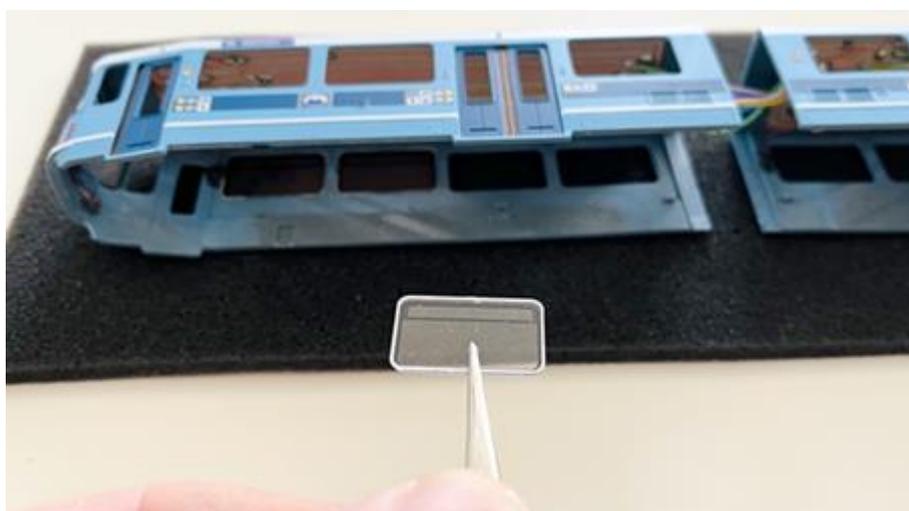
Inserting the side windows

Separate the individual windows from the acrylic glass sheet using a craft knife and place them in a box, bowl or similar so that no part is lost. Then remove the sharp edges from each window with a small pair of scissors.



Now place the first car body on one side and start inserting the windows into the model from the inside.

Use a suitable adhesive to fix the windows so that they do not become dull or milky (for a recommendation for the adhesive, see the 'Tools' section). Apply a few drops of the glue to an excess piece of plastic or another surface. Then take a window and use a toothpick to apply a few dots of glue to the protruding edge of the window. Then you can turn the window around and carefully place it in the car body. Details: See photos.



IMPORTANT NOTES on the windows:

Every builder paints his models differently - some very thick, others very thin.

As a result, the windows may no longer fit 100% after painting.

PLEASE do a **fitting test** without glue **before gluing**.

Check whether all the windows fit in the intended place. If not, take a fine file and carefully adjust the windows.

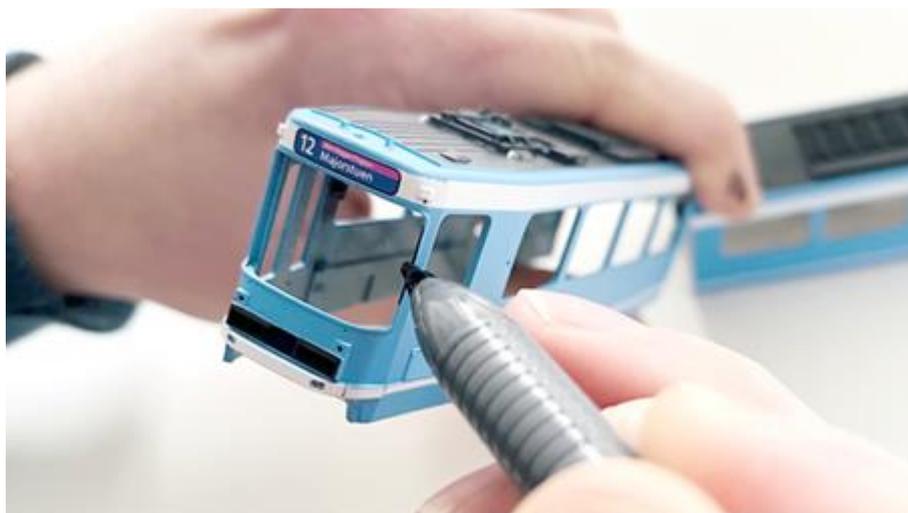
The material of the car body is fragile and will splinter into a thousand pieces if you press the windows in with force.

If you notice during the fitting test that the windows stick to their installation space on their own, you do not need to use glue.

The windows are made of very robust material. Should a drop of glue drip onto the window, you can simply remove it. The window will not be damaged.

Inserting the front and rear windscreen

First, you can paint the edges around the windscreen and rear window with a black permanent marker. (Please only carry out this step if you have a steady hand).



You can simply insert the front and rear windscreen into the model from the inside without glue. A little dexterity is required and you may need several attempts. The long side of the windscreen is slightly under tension and can therefore be clipped into the recesses in the window spar on the left and right. You can proceed as shown in the photos when inserting the windscreens:



Take the windscreen on your index finger and insert it into the body from behind.



Place windscreen between thumb and index finger and adjust.



The windscreen must disappear behind the window frame on all sides. It is fully embedded in the body.



When this is done, it looks something like this. The windscreen is snapped into the body on all sides and is under tension. It remains in the desired position and does not need to be glued.

Headlights, indicators and rear lights

The kit contains three bags with transparent, coloured lenses for headlights, indicators and rear lights.

One bag contains the transparent headlights and some orange-coloured indicators. This bag is intended for the front of the tram.

The second bag contains only orange-coloured indicators. These are intended for the right and left side of the model.

The third bag contains transparent, orange and red lenses and is for the rear of the tram. The small, round, red lights are the warning lights that are mounted directly behind the last door. Otherwise, an orange-coloured rear light is mounted at the top left and right at the rear and two red, angular rear lights are mounted underneath. The transparent rear lights are mounted in the centre.

A very small drop of glue is applied to the lenses, similar to installing the windows, before placing the lenses in the correct position with tweezers. You can find a few pictures of this procedure here:





Apply some superglue to an excess piece of plastic. Use the tweezers to dip the peg of the transparent lens into the glue. Alternatively, you can also use a toothpick to apply the glue to the lens or the model.



The lens is carefully inserted into the correct hole in the model.



The lens is then aligned correctly with the tweezers so that it sits straight.

Details for the chassis

The base plate is almost completely pre-assembled. However, there are a few details that we have not yet glued on so that they do not break off during shipping.

Firstly, you can fit the two Albert couplings. There is a 2 mm hole in the front and rear base plate into which the couplings are inserted. The front coupling is inclined approximately 45 degrees to the left in the direction of travel, the rear coupling 45 degrees to the right. If the coupling does not hold by itself, you can use a little superglue.



The picture shows an original vehicle from the front. The coupling is folded to the left.



The people catcher with its release mechanism is then glued into the four holes in the base plate. Apply a little glue to all four ends of the people catcher and then insert the four end pieces one after the other into the holes intended.

In another bag you will find the bogie covers for the front and rear bogies. You can attach these to the bogies using the pegs and some glue. If you want to equip the model with a motor, you must first replace the Elektrikken bogies with those from Halling.

Attention: The bogie covers must always be attached with superglue. You must therefore decide beforehand whether you want to build the model with or without a motor.

Mounting details on the roof

Also included in the bag of accessories for the base plate is the long, thin aerial, which is mounted at the very front of the roof of the A section of the tram. You should only fit this at the end, otherwise the aerial may break off.

(Unpainted model only!) The pantograph is also mounted on the roof. To do this, first remove the M2 screw and the M2 nut from the box with the pantograph and turn the nut on the screw down to the screw head (the nut only serves as a spacer).

You can then use the screw to fasten the pantograph to the roof from below.



Assembly of car body and chassis

Almost finished!

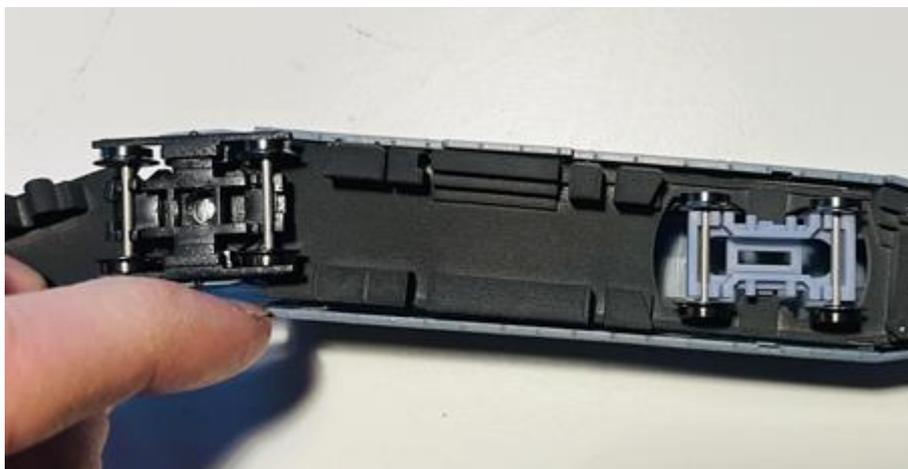
If not already done, the articulated portal is glued to the centre bogie. The body of the front section is then placed on the chassis (no glue!). You place the body on the chassis at an angle at the height of the driver's cab:





The end of the chassis has to be flush with the body.

Then carefully press the rear part of the body onto the chassis. The body must be spread open slightly with your finger.



The rear section of the body can simply be placed on the chassis from above. If the parts become jammed, you can proceed in the same way as with the front section.

Applying the decals

The decals are UV printed. Please note that some decals are printed in white and are difficult to recognise on the paper. The decals are cut out and then soaked in water for a few seconds. The decal separates from the backing material and can be placed on the model. For a better hold on the model, you can wet the area where the decal is to be applied with a little decal softener (e.g. Mr Mark Softer Neo from Gunze/Mr Hobby).

After the decals have dried, they can also be fixed with clear varnish. A product that does not dissolve the colour too much should be used for this (e.g. Tamiya X-35).

You will find the correct position for each individual decal in the following pictures.

Front and rear of the model:

The destination display (#1, large decal) and the road number (#3) are applied here for all versions. For model #6102, decal #6 must also be applied to the rear.



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Right side of models #6101, #6151 (**version from approx. 1990s**)

Destination displays (#2, smaller decal), logos (#4) and pictograms (#5) are attached to the side.

Pictograms: There are different pictograms on each door. We number the doors from 1 (by the driver) to 4 (at the rear).

1st door: left decal #5A

2nd door: left decal #5D; right decal #5B

3rd door: left decal #5D; right decal #5B

4th door: right decal #5C



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Right side of models #6101, #6151 (**version approx. 2010s**)

Destination displays (#2, smaller decal), logos (#4 and #7) and pictograms (#5) are attached to the side.

Pictograms: There are different pictograms on each door. We number the doors from 1 (by the driver) to 4 (at the rear).

1st door: left decal #5A

2nd door: left decal #5D; right decal #5B

3rd door: left decal #5D; right decal #5B

4th door: right decal #5C

On top of 1st door: decal #7



Mounting the etched parts

The etched sheet made of nickel silver contains windscreen wipers and rear-view mirrors, which can be attached to the model using superglue.

Painting:

The parts can be painted either with a permanent marker or with colours suitable for metal (e.g. Revell / Humbrol Emailcolor).

Windscreen wipers: black

Rear-view mirror: Mirror arms white; rear-view mirror front remains unpainted; rear black

Painting is best done while the individual parts are still attached to the etched sheet.

When cutting the parts out of the etched sheet using a cutter knife, please note that all parts require a small connection so that they can be glued into the holes in the vehicle. The parts must not be cut too closely.

Please refer to the pictures for the installation of the windscreen wipers: The lower end (approx. 1-2 mm) must be bent downwards by 90°. The parts have a small notch at the bending edge as a guide.

For the rear windscreen wiper, the wiper blade must be bent approx. 30° away from the wiper arm.

One wiper stands upright, the other wiper lies horizontally. The wipers can be glued in the small holes under the windscreen. It makes sense to also fix the wipers to the lower edge of the windscreen with a very small amount of superglue.



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The rear-view mirrors are bent away from their arms by approx. 45° and fixed in the holes provided with superglue.





Manufacturer of the product and responsible person within the meaning of GPSR

Vincent Ertel, Elektrikken

Mail: elektrikken@web.de

Phone: 0151/50136472 (Attention: **No telephone support** or similar - the telephone number is only given due to legal obligations.)

Stadlerstr. 5

D-09126 Chemnitz

We reserve the right to make errors in the description. In the interests of product care, the product may differ in colour or content from the illustrations and descriptions in this product information.