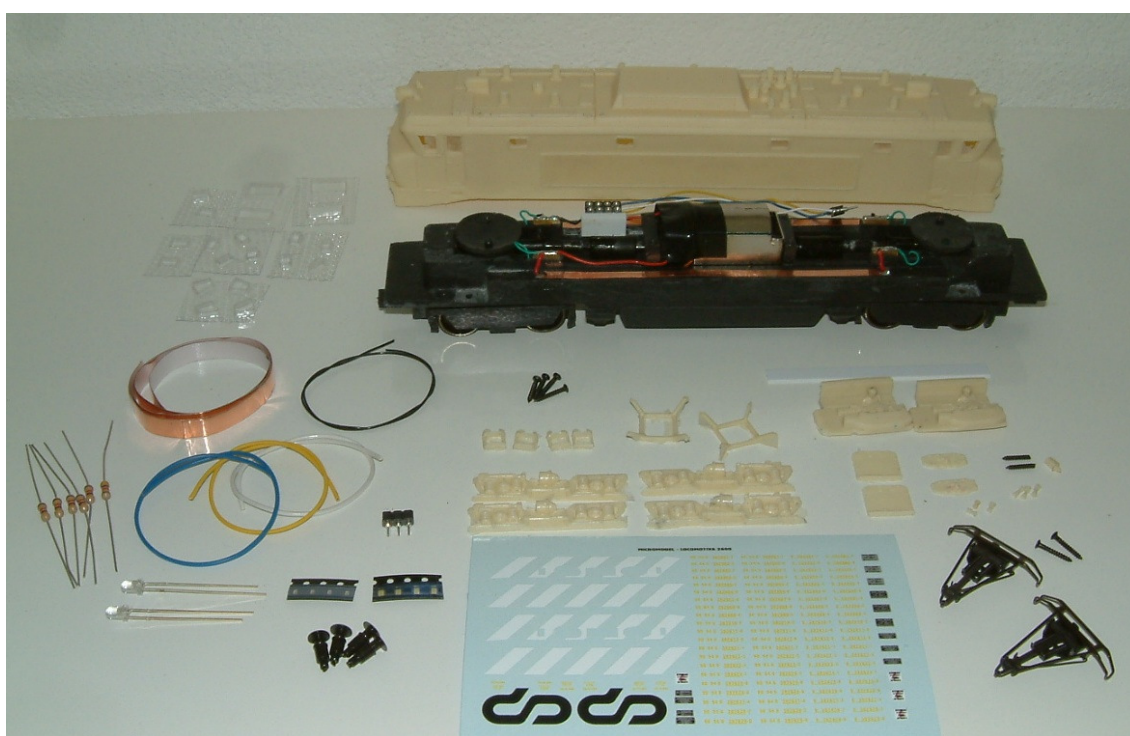




Assembly instructions for Arlo-Micromodel advanced LE 2600 MT kit DCC-Loksound ready HO 1/87

Thank you for purchasing our kit. We hope you will enjoy to model your Alsthom LE 2600 locomotive !

I - Included parts:



- 1- Resin cast bodyshell, plus cabin interiors with engineers.
- 2- Die-cast pre-assembled DCC ready, Micromodel original 5-pole motor, shaft-gear full Axle driven powertrain, with NEM couple boxes and RP-25 wheelsets
- 3- Cast bogie sideframes and foot step ladders
- 4- Front and rear optional central plates: "origin" and "Convel" protection.
- 5- Transparent vacform parts
- 6- Pantographs and their support frames
- 7- Water decals for all prototype lettering serial numbers
- 8- Section-cut electrical apparatus complementary part.
- 9- Horns (one pair long and one pair short)
- 10- Sprung metal buffers
- 11- 4 SMD white led's with resistors (DCC ready values)
- 12- 4 SMD red led's with resistors (DCC ready values)
- 13- One pair 3mm white led's with resistors
- 14- Conductive copper tape, wiring and 3-way socket with plug
- 15- Steel wire for roof and detailing

- 16-Mounting screws
- 17-Detail parts (airbrake tubing, dummy couplers)
- 19-Pair of head-cut screws, simulating the existing pantograph elevator isolators
- 20- Pair of standard couplers

Please note: This kit does not include stainless steel wire for handrails.

II - Some of the required tools for modelling the kit:



- 1- Cutter
- 2- Drill - 0,3 e 0,5 mm.
- 3- Set of various shape files
- 4- Sand paper of various grain types for hard thinning of surfaces and smooth finishing touches
- 5- Bending and cutting plyers
- 6- Good quality cianoacrylate glue.
- 7- Quality Primer and paints like Revell/Tamiya ones, Fast drying putty filler
- 8- Mini drill station
- 9- 4 spring buffers L-525300 from Liliput or others of your choice.
- 10- Real-like couplers and tubing from Weinert or similar
- 11- Freelance powertrain basis. We suggest any brand BB 15000, BB 22000 SNCF Locos
- 12- Masking tape or fluid to your choice
- 13- NEM coupler adaptor at modeller's choice

III- Powertrain test run

After checking the included items, we suggest a test run of the pre-assembled powertrain. By default, it is prepared to DC run with the shunting plug installed in the 8 pin NEMsocket. This complete motorized underframe is just slightly lubricated, avoiding grease contamination to assembly and paint work surfaces. Please lubricate only when all the work is finished. When testing, do not run for a long period of time.

As these kits are artisan made in a small production basis, we always take a great care concerning testing all powertrains before delivery in DC and DCC modes.

After this check up, we are now ready for the next stage:

IV - Preparing the parts for primer coating (Sample pics from our EE 1400 kit):



1- Remove all the window flash.



2- Filling of small gaps and bubbles, and correcting work of eventual imperfections by sanding and smoothing as required.

3- Cabin interior adjustment and headlight preparation:

Check for cabin interior fine adjustment and decoration in this stage. Note: Permanently fix these parts only when the lighting is definitively installed. Drill carefully all the headlamps on both cabins and file them for a perfect match with the Led's light emitting surface. For the upper head lamps, begin by carefully grinding the body shell lamp housing through the shell interior, then drill horizontally from the exterior. Test the proper size often, using the 3 mm, included led.

4- Adjusting of the various transparent parts.

Carefully cut all transparent parts from the supporting film. After adjustment, you may choose to fix them definitively before or after painting, using a toothpick with a small drop of transparent-dry white glue or crystal fix from Humbrol or similar.

When choosing to place all these parts before painting, be sure of masking them carefully.

Note: Our Vacuum-formed clear parts are polycarbonate made. This material is resistant to most solvents without damage . However you may test clean in a small spare cut.



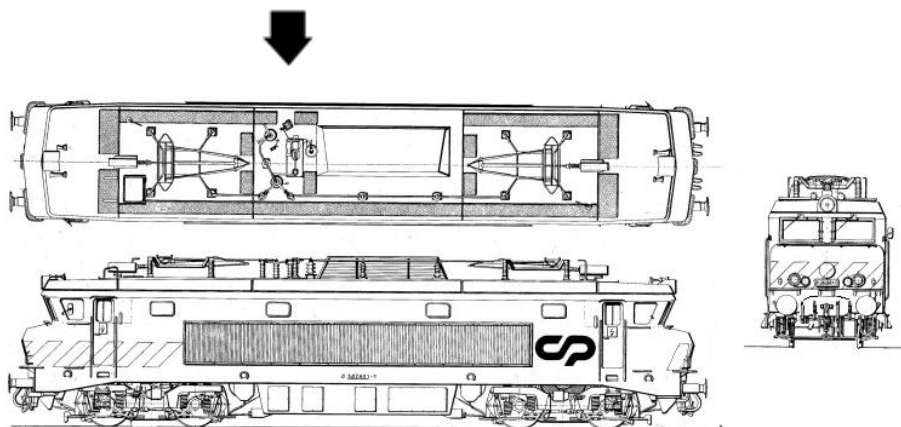
Sample pics are from our EE 1400 kit

5- After these procedures are done, study the bogie resin cast sidings, fixing them in the proper place, on the smooth sides of the cast pre-assembled geared ones. Here is a photo of the prototype bogie:



If you wish to proceed to electrical installation before painting, please jump to part 7

6 - Before primer coating, degrease all parts with isopropyl alcohol or other product of your choice. Take some care to the engine roof electrical layout, that may be entirely built in this stage, before painting. The cut-section little complementary part, must now be glued in place:



After the primer coat, check the pattern for any finish imperfections that may need some putty filling and light abrasive sanding.

The decals fit the brown/orange only existing livery of this locomotive. Due to the multi angular shape of cabin heads, we advise to close cut the white stripping and study the correct alignment before soaking the decal in water. Some adjustments are required.



Now the required colors for the paint job:

Orange: Vallejo model color 70851 or RAL 2004

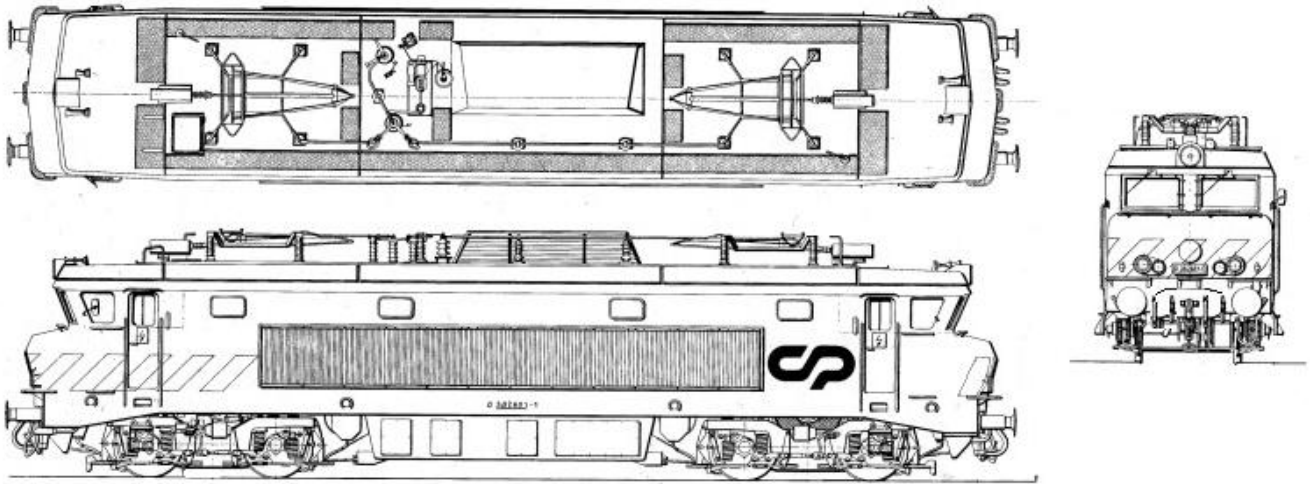
Brown : Vallejo model color 70872 or RAL 8017

Silver: Satin aluminium for roof vent housing and step plates (with a touch of gun metal if you prefer these plates weathered)



Gloss silver for side grilles

Cabin interior: Yellow sand



7- DCC Electrical lighting assembly

After positioning the cabin interiors, mark the gluing points with a pencil and remove them again.

Now we will prepare the body shell to receive all the electrical components. First of all, cut three parallel stripes from the included copper tape with the help of a ruler and place them as following picture:

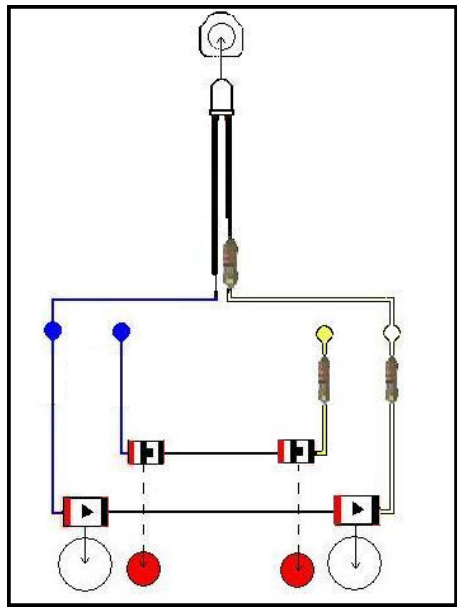


The 1st stripe will serve the white wire (cabin one white SMD's, plus the upper 3mm white led and cabin 2 red SMD's)

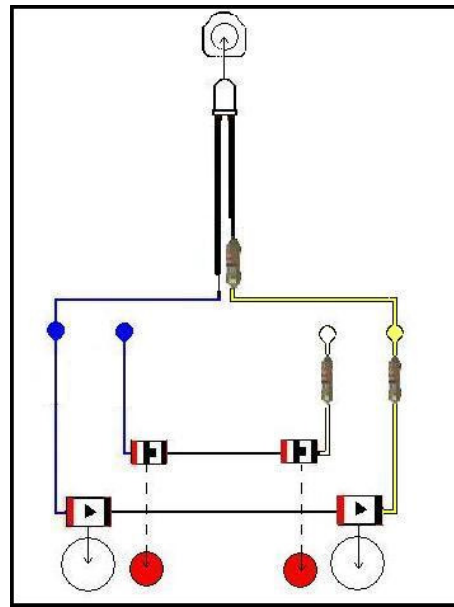
The 2nd (middle) stripe will serve the blue wire (common of functions)

The 3rd stripe will serve the yellow wire (cabin 2 white SMD's, plus the 3mm white led and cabin 1 red SMD's)

Then carefully place all the SMD's, 3mm led's and resistors in the body shell and solder following the next easy schematic drawings:



CABIN 1

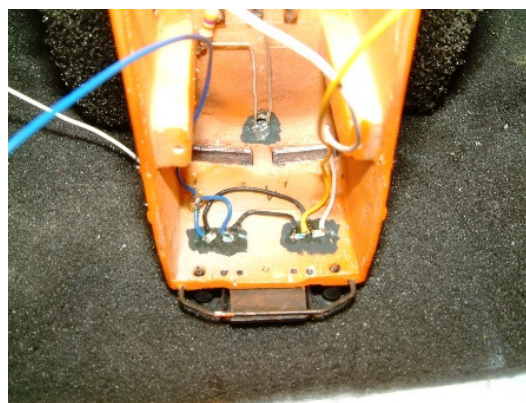


CABIN 2

Solder the included wires into the 3 pin plug included in the kit and connect to the copper tape correspondent stripes.

Be careful to respect each wire, color positioning.

After soldering, paint all surrounding area with a good opaque paint to avoid light dissipation through the resin cast body:



After final tests, paint also the led's back, in opaque black.

If you chose to go to paint and finishing works now, please jump to 6.

If you are now at the end point, its time to lubricate the powertrain with quality products.

We use silicon paste to all gearing and a good model lubricant (i.e.Peco Electrolube) to the motor and worm gears supporting bushes.

We hope everything run smoothly assembling your model.

For further assistance, feel free to contact us. We will gladly help you

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