

Great British Model Railways

Welcome

Thank you for purchasing this **EFE Rail** SR Booster Class 70 locomotive. A lot of care was taken producing your model and we hope you enjoy it for many years to come.

Please note: This model has been designed to run on curves of **no less than 2nd Radius** (438mm). We recommend that you do not use anything smaller as this may result in the model derailling.

History

By the late 1930s the Southern Railway's electrified system had expanded beyond the suburbs sufficiently to consider using electrical traction on more than just multiple units. Accordingly, two experimental Co-Co mixed traffic electric locomotives were designed and constructed by Oliver Bulleid and Alfred Raworth.

To overcome the problem of 'gapping' when the gap between conductor rails is longer than the distance between the locomotive's pickups the traction power from the 3rd rail was used to drive two motor generator sets with heavy flywheels. Thus, power to the traction motors would be maintained by the motor generator sets being driven by the flywheel when the traction supply was briefly lost. These motor-generator-flywheel sets were referred to as "boosters" which also became the nickname for the class. These locomotives were also fitted with a pantograph for overhead pickup in sidings and depots where a conductor rail presented danger to staff.

The first locomotive numbered CC1 (renumbered to N°20001 by BR) emerged from Ashford works in 1941. Until 1942 it ran in photographic grey livery with three horizontal lining stripes, two on the body sides, one on the lower part of the roof, which were extended round the cab front, rounded down, and brought to a point which in later years would be known as "speed whiskers". This was replaced by malachite green livery with "Sunshine" Southern lettering and yellow lines at solebar and cantrail level. The second locomotive N°CC2 (N°20002) emerged from Ashford in 1945 in malachite green livery. These two locomotives were used on both express passenger and goods trains.

Various modifications happened to these locomotives throughout their lives. MU jumpers were an early addition to CC1/2 as were marker lights. Three sandboxes from each bogie were also removed from the earlier pair. CC1 was built with a stencil headcode panel which was subsequently modified to be a boxed headlight but later converted to a roller blind headcode panel. CC2 (20002) received a roller blind headcode panel in later life.

They settled down to a productive but unremarkable life doing exactly what they were designed to do. They were closely associated with Victoria-Newhaven boat trains.

From 1949/50 they adopted the black and aluminium colour scheme chosen by British Railways for diesel, electric and gas turbine locomotives, however prior to this in 1948/9 N°20002 carried an experimental light blue livery. From the late 1950s they carried green livery with a red and white line half way up the side stopping short of the cab doors and a pale green frame. N°20001 was withdrawn January 1969 in BR blue with full yellow ends, by which time it had also gained twin air horns on the roof. N°20002 was withdrawn in December 1968 in plain green with full yellow ends.

Accessories

Although our models are highly detailed and ready to run straight from the box, we also supply optional accessories to be fitted by the owner if they wish. This model includes screw couplings, low level vacuum pipes (to right of coupling hook on buffer beam, where applicable), steam pipes (to left of coupling hook on buffer beam), shoe beam pick-up shoes, and depending on the version either: closed engine head signal discs, alternative stencil or roller blind head codes.

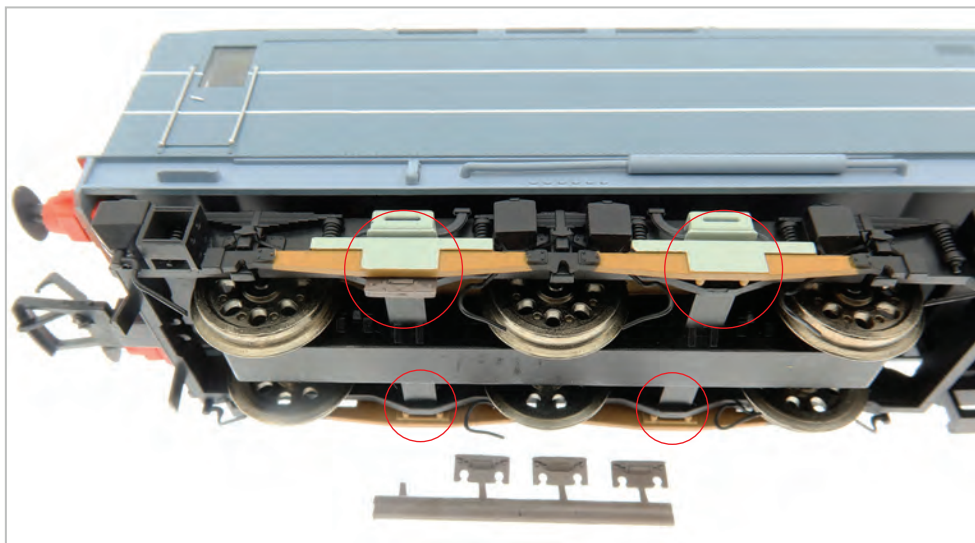
The engine head signal discs (route discs) are supplied either open or closed, allowing any combination of route code to be displayed. The discs are a push fit to enable either open or closed discs to be fitted to create the required engine head signal. We recommend <https://sremg.org.uk/headcodes/sheadcodes/04.html> for assistance.

The alternative head code stencils or roller blind headcodes can be fitted once the body has been removed from the chassis (see body removal section below). Gently push out the centre stencil/roller blind front and

replace from the inside. Refit the body. The head codes supplied are known to have been used on the SR Boosters during their service.



The shoe beam pick-up shoes are provided to be fitted, should clearances on owners installed third rail allow. Once removed from the supplied sprue the pick-up shoes, four per bogie, can be clipped into place, as shown below.



Running In

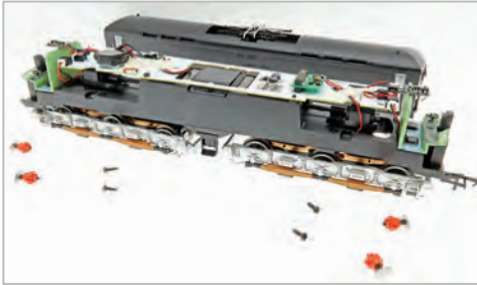
It is necessary that this SR Booster Class 70 model is 'run-in' to allow the mechanism and gears to settle. This requires the model to be run without a load (wagons or coaches, etc.) for 30 minutes at half speed.

Lubrication

All **EFE Rail** models are supplied ready lubricated and can be used straight from the box. Over time your SR Booster Class 70 locomotive will require some additional lubrication, which will depend on the frequency of use and storage, so please inspect your model on a regular basis. If required unclip the bogie side frames and lightly lubricate the gears.

Body Removal

Remove/unclip the four sprung buffers from the buffer beam and remove the four screws, as shown. Then gently prise the body from the chassis.



Lighting

On analogue the interior cab lights are switched on and off by passing the supplied magnetic wand above each cab.

The engine head signal lamps or headcode boxes depending on model versions, are directional and all light up in the direction of travel. The versions with engine head signal lamps and discs are provided with a set of open or closed discs to be fitted as appropriate.

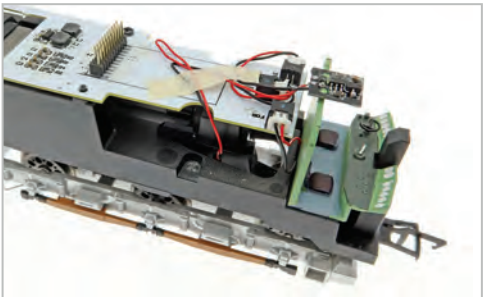
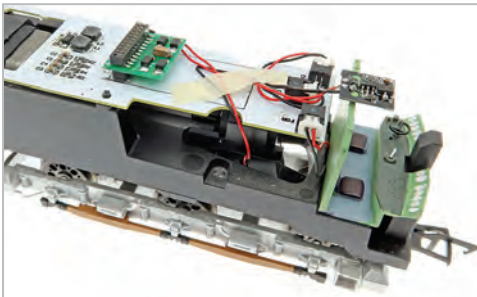
On DCC the interior cab lights are independently controlled using function F3 and function F4. The directional lights are controlled using function F0.

No lights will illuminate at the rear in accordance with the prototype.

DCC Decoder and Sound Decoder Fitting

Digital Command Control (DCC) allows for greater functionality and control over the models on your layout, such as the simultaneous control of speed & direction of multiple locomotives and enables the use of DCC controlled track, points and other DCC Decoder controlled accessories. DCCX also allows for the addition of DCC Sound which brings a whole new level of realism to your model railway.

The model is DCC Ready. It is fitted with a 21 pin decoder socket and blanking plug for standard analogue operation. You will need to remove the body and blanking plug to fit the decoder. For the body removal instructions please see previously in these instructions.



This SR Booster Class 70 model comes with a speaker already fitted, all that is required to bring Sound to your model is a 21 Pin DCC Sound Decoder pre-programmed with the sound file of your choice (the nearest available sound file would be that for a Class 71 Electric loco).

Spare Parts

Selected spare parts are available from the Bachmann Europe Service Department. For further information & enquiries please contact the Service Department directly by email on **service@bachmann-europe.co.uk** or by phone **01455 245575**.

Warranty

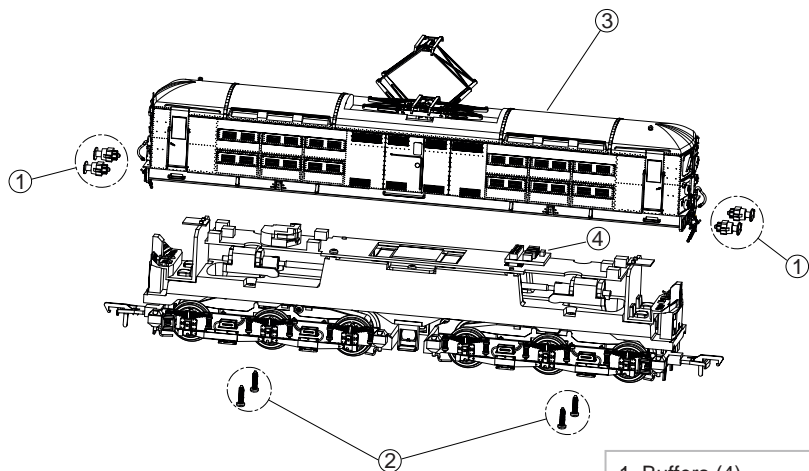
This product has a Warranty for 12 months from the date of purchase against faulty materials or workmanship, subject to the following conditions. During this period, such as defects that occur, will be repaired or defective parts replaced free of charge.

1. This Warranty applies only if the item was purchased from an authorised retailer of Bachmann Europe plc ('Bachmann') within the United Kingdom, European Union & European Economic Area. This Warranty does not confer any right other than those expressly set out above, and does not cover any claims for consequential loss or damage. The Warranty is offered as an additional benefit and does not affect your statutory rights as a consumer.
2. For claims under this Warranty, in the first instance, the product must be returned to the retailer with evidence of the purchase date in the form of retailer receipt/invoice, accompanied by a letter setting out the date and place of purchase, giving a brief explanation of the problem that has led to the claim. It is essential that the claim reach the retailer on or before the last day of this Warranty period. Late claims will not be considered.
3. This Warranty is only available to the original retail purchaser of this product and is non-transferable.
4. This Warranty does not extend to cover damage resulting from misuse or careless handling, accidental damage, wear and tear, or use on a voltage supply other than that stamped on the product.
5. The Warranty may be considered void if repairs have been attempted other than by Bachmann Staff.
6. The Warranty is on the original product in its entirety, and does not extend to individual components removed from the product. In respect of train sets, the Warranty applies to motorised units and controllers only.
7. If Bachmann chooses to replace a product, it will be with the nearest appropriate model of its choice.
8. Bachmann reserves the right to decline service to any model that has been fitted with a decoder after manufacture.
9. Bachmann will not be held responsible for damage to, or loss of, an after market decoder fitted to a model submitted for service under the Warranty.
10. The fitting of a Bachmann decoder with a current Warranty shall not be deemed to change position regarding a product that is otherwise outside its own Warranty. It may be necessary to change decoder settings during service.
11. Bachmann's liability, under this Warranty, will in no case exceed the price paid for the product as originally manufactured.

EFE Rail

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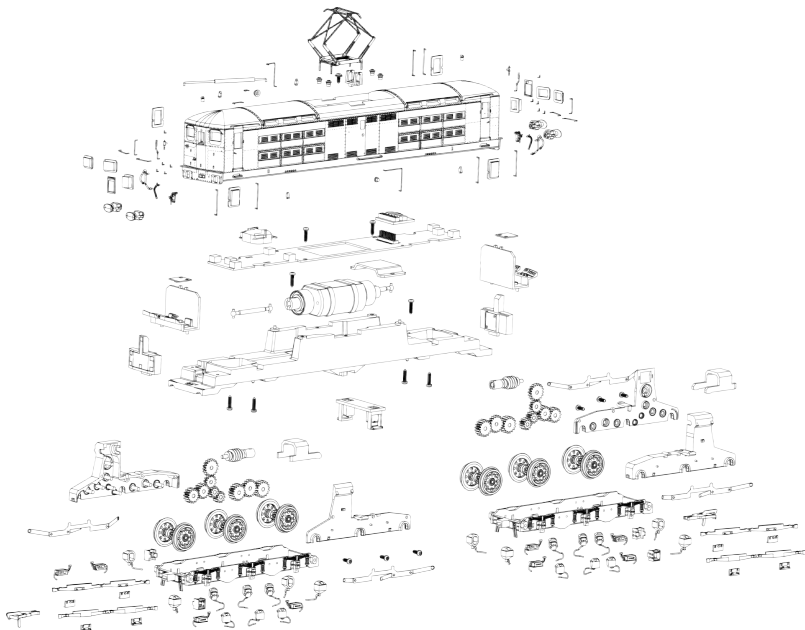
- 1. Buffers (4)
- 2. Body fixing screws (4)
- 3. Body
- 4. DCC plug and blanking plate

SR Booster Class 70

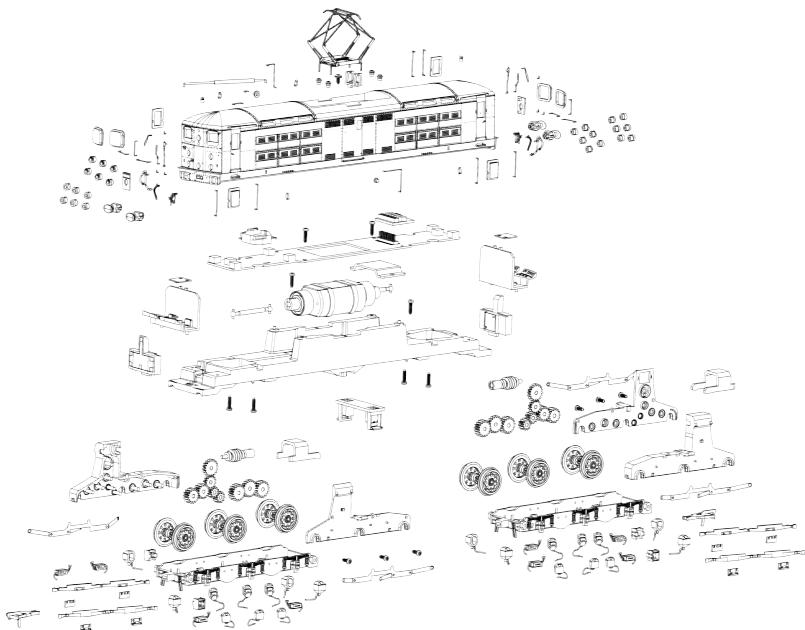
EFE Rail

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E82001 SR Bulleid Booster CC1 SR Grey



E82002 SR Bullied Booster CC1 SR Green

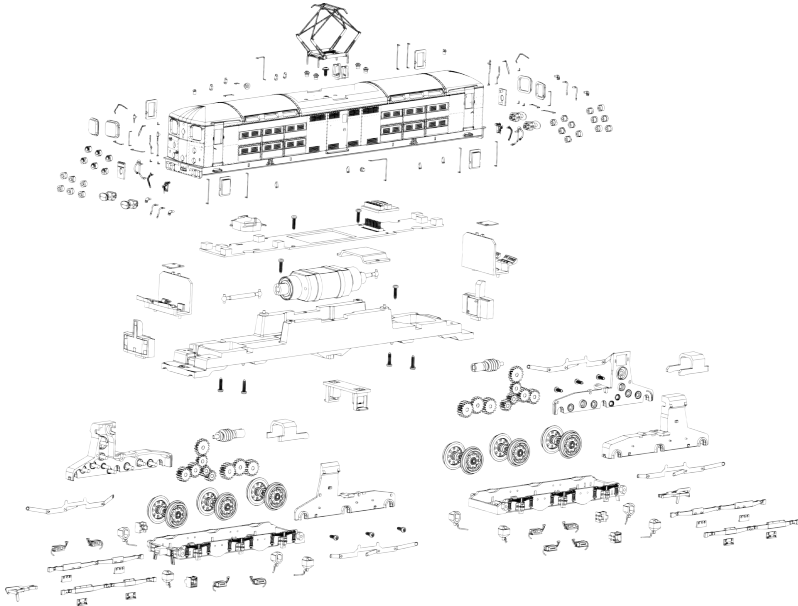


SR Booster Class 70

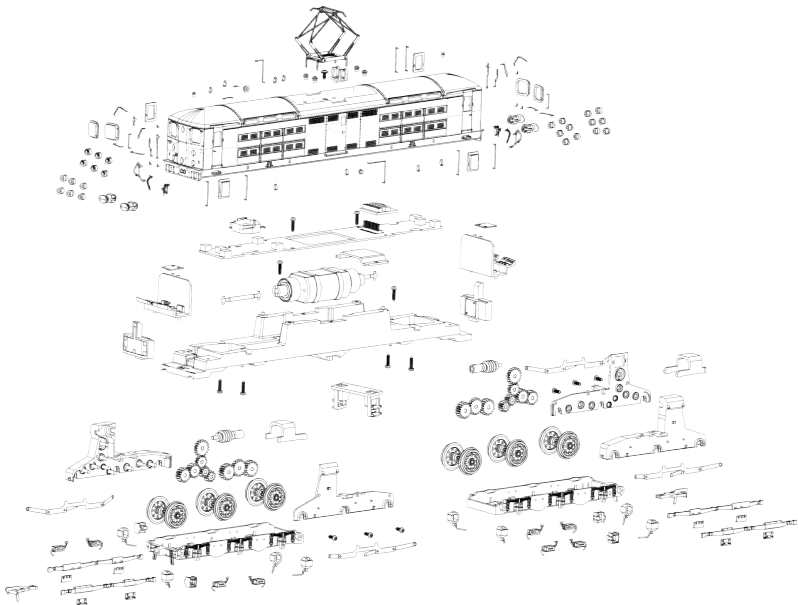
EFE Rail

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E82003 SR Bulleid Booster 20002 BR Black



E82004 SR Bullied Booster 20002 BR Green



SR Booster Class 70

EFE Rail

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E82005 SR Bulleid Booster 20001 BR Blue

