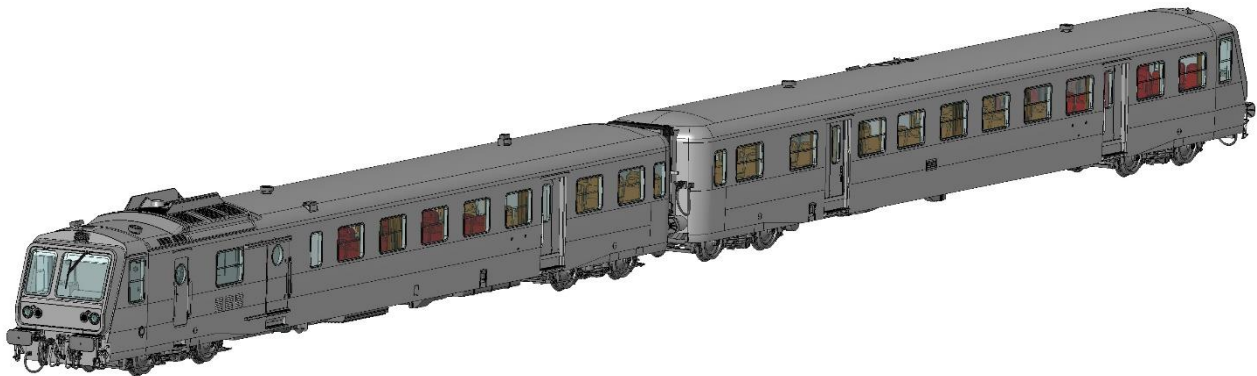


RGP 1 modernized - X-2700 RAILCARS



OPERATING MANUAL

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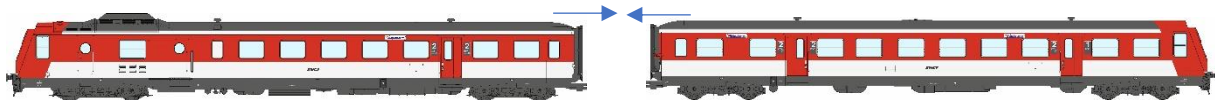
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1. Generalities

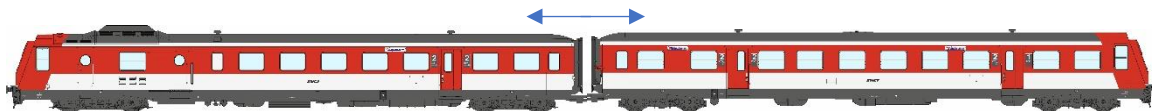
A REE product is a highly detailed model offering numerous functionalities. Therefore, one should follow some operating recommendations.

First remove engine and trailer from their foam packing by using the protective film. It allows you to handle your model avoiding any breakage. Then, take in your hand your locomotive to set it on the track. The use of a ramp can bring a valuable help.

Coupling: engine and trailer are linked by a magnet's coupler. To couple, simply bring the two elements closer together. The mechanical and electrical connections are made automatically.



Uncoupling: gently separate the two elements by pulling them along the track axis in opposite directions. The magnetic retention force dissipates as soon as they are slightly apart.



Here you are, your model is ready to run.

This product is designed to operate on **minimum radius R=420 mm.**

The entire REE models team wishes you long gaming sessions with your model.

WARRANTY

Your model is covered by a two years parts and work warranty. This warranty will apply when presenting a purchase receipt with the date of purchase.

2. Couplings and accessories

The engine and the trailer are delivered with a detailed front plate.

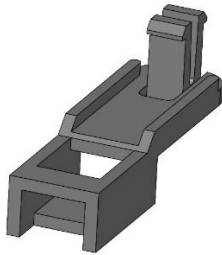
There is no standard coupler's support assembled on model.

A. Accessories bag

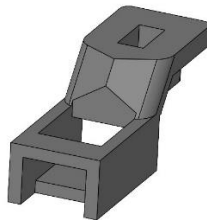
Inside the delivered accessories bag, you will find a complete set of parts to put a NEM 360 coupler on one, or the other, or both front plates.

Are available:

- Two NEM 360 coupler's supports, one for the engine, the other for the trailer,

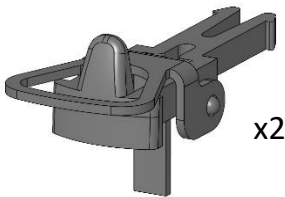


Engine



Trailer

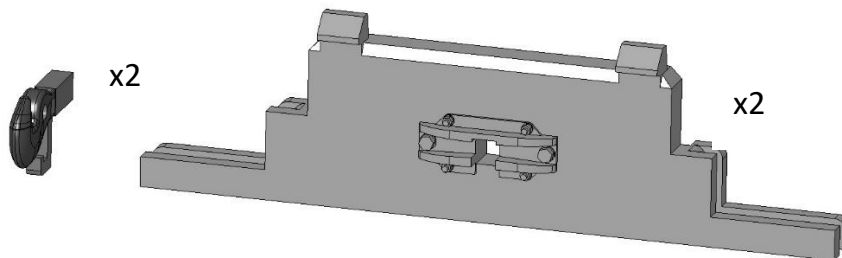
- Two standard couplers,



x2

If you wish to install on your model another coupler type, you can use any coupler which follows NEM 360 standard.

- Two shortened front plates with two shortened hook couplers, allowing clearance for the NEM box.



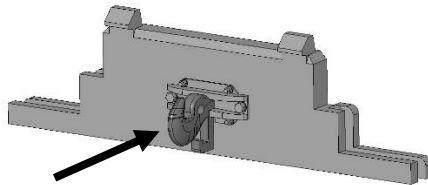
x2

x2

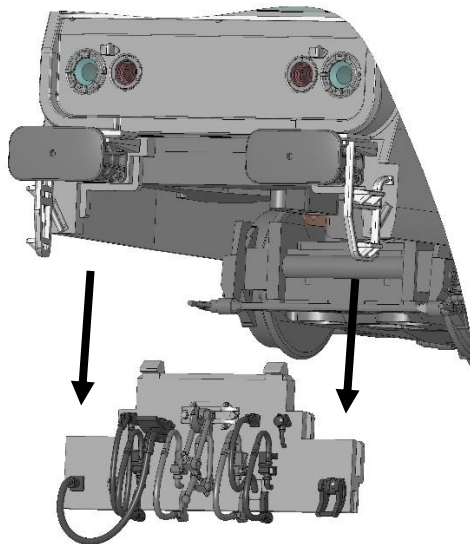
B. Coupler assembly

To fit a standard coupler's support on engine:

- Start by assembling the shortened hook on the truncated front plate,

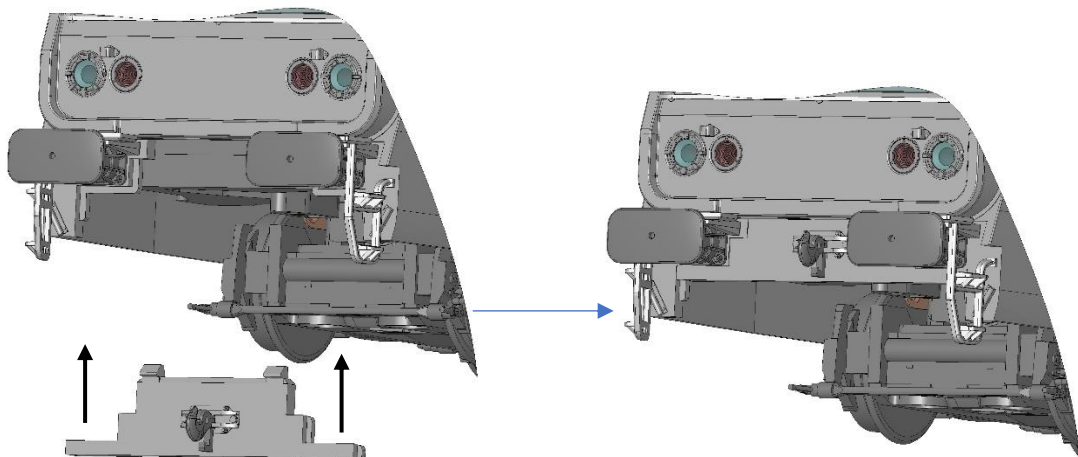


- Remove the entire front plate from the model,

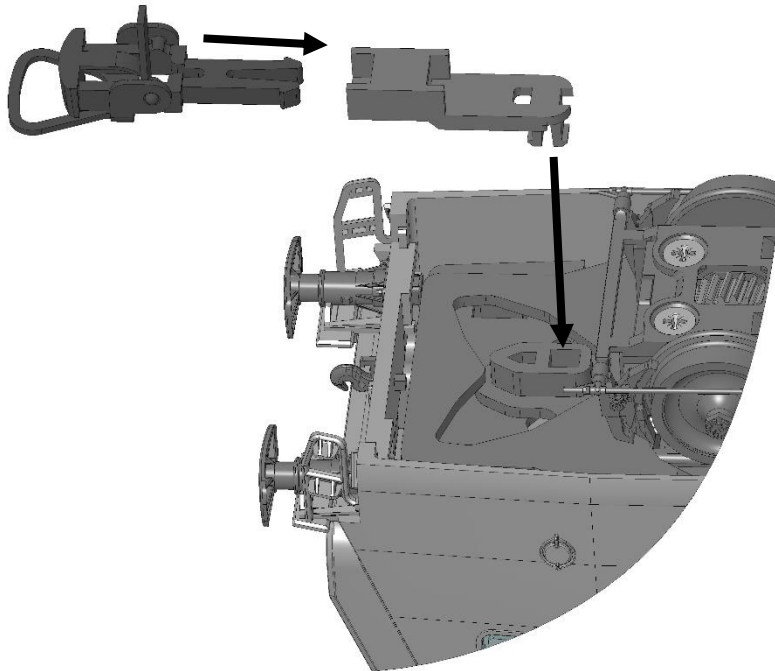


It is simply inserted vertically, slightly in force, inside the body.

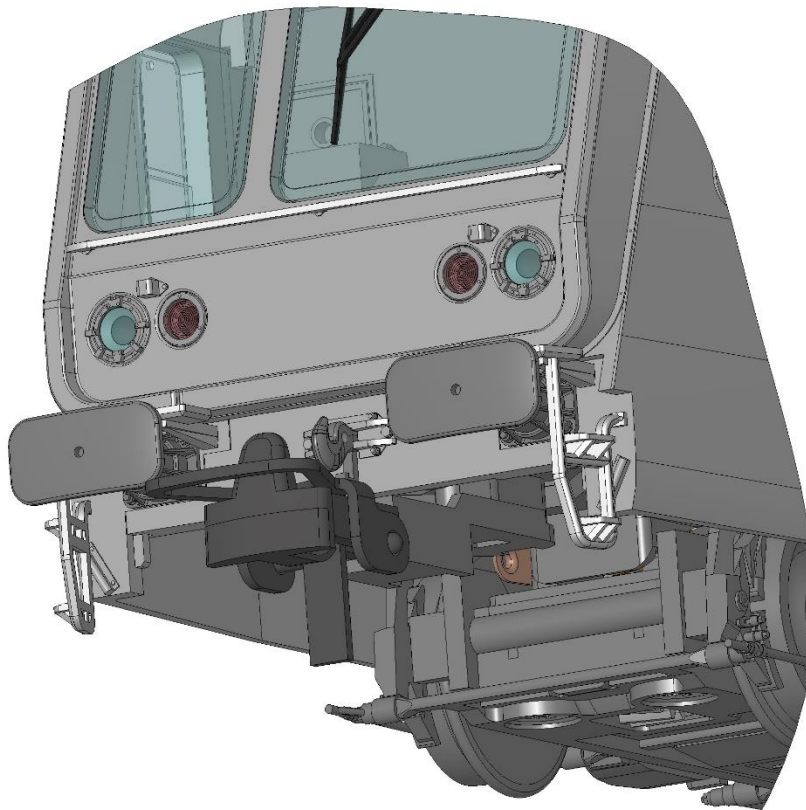
- Install, in its place, the truncated plate,



- Insert NEM support and coupler,



- Final look.

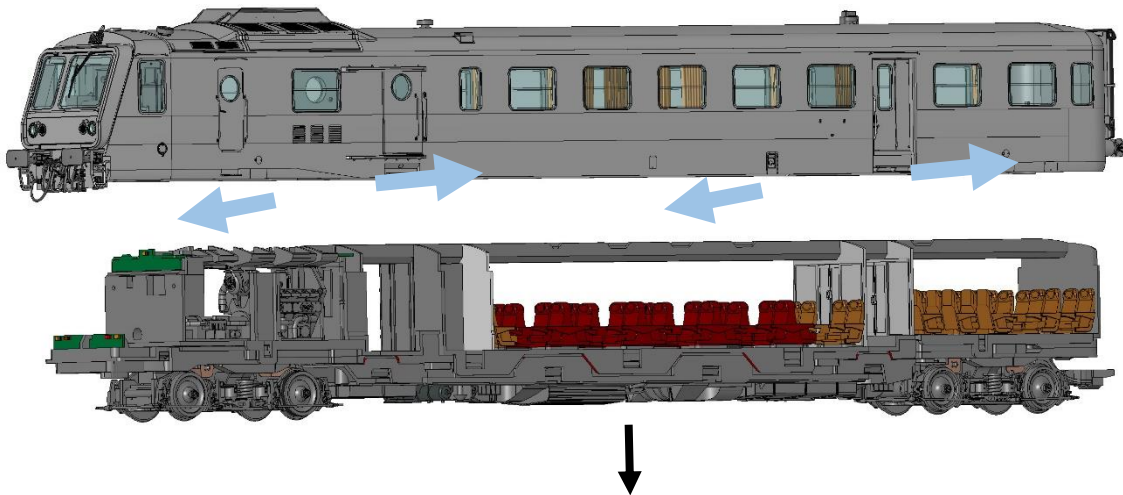


3. Body disassembly

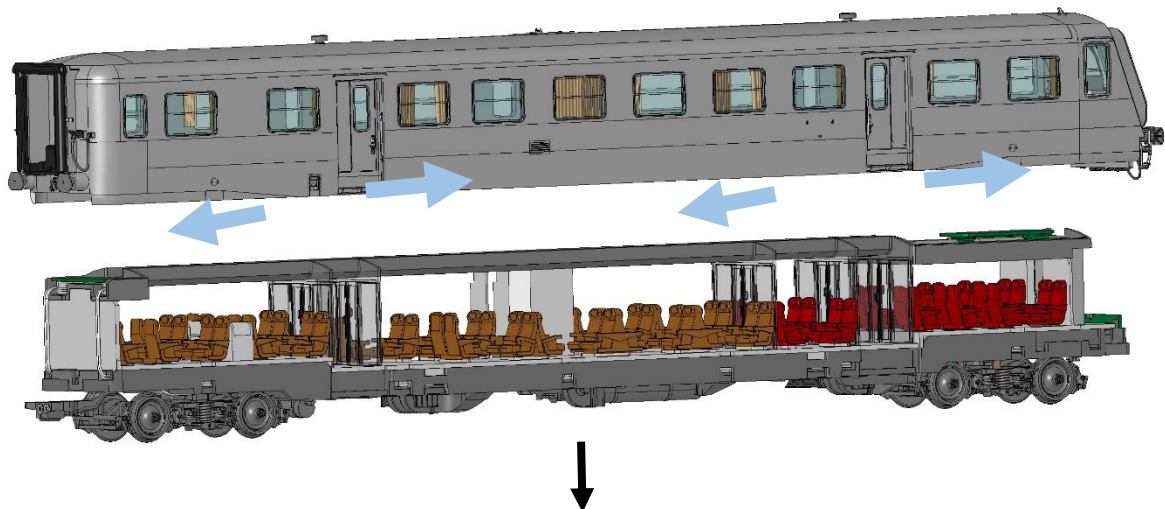
Bodies are held in place on frames by several clips located between passengers' doors.

Lift up body: move apart body's sides and let the frame slide down.

- Engine:



- Trailer:



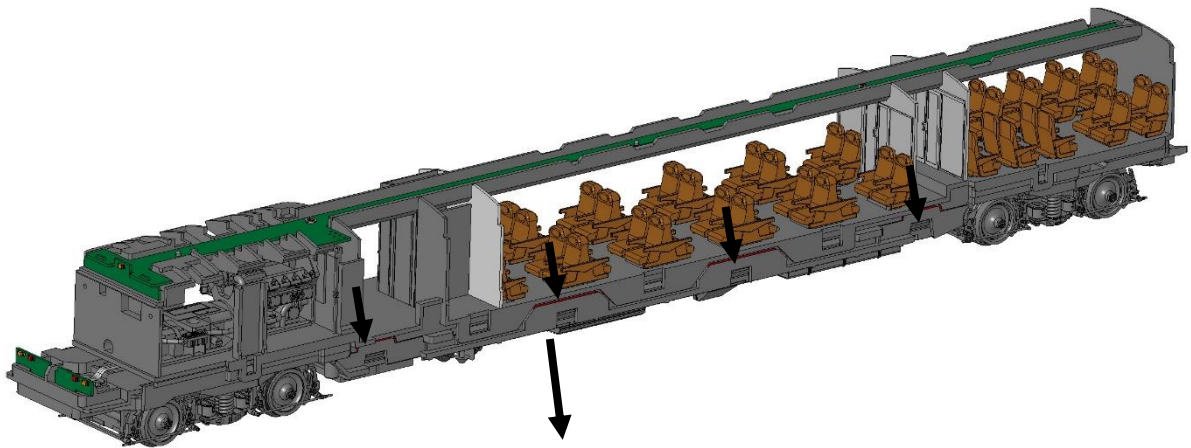
To make this operation easier, there is no electric connection between body and frame.

4. Decoder installation/Replacement

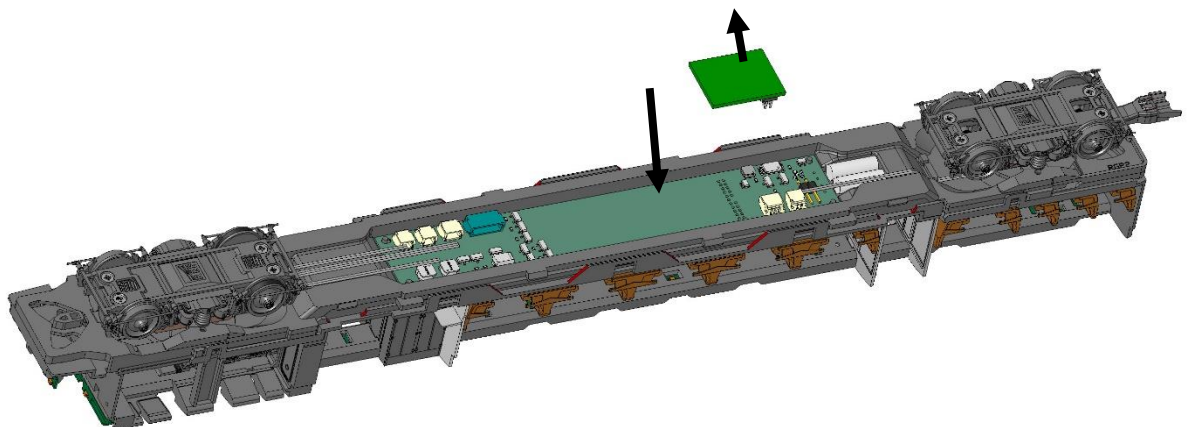
To convert the train set to DCC, it is necessary to install a decoder in both the locomotive and the trailer.

In the engine, main electronic board is hidden between metallic frame and underframe.

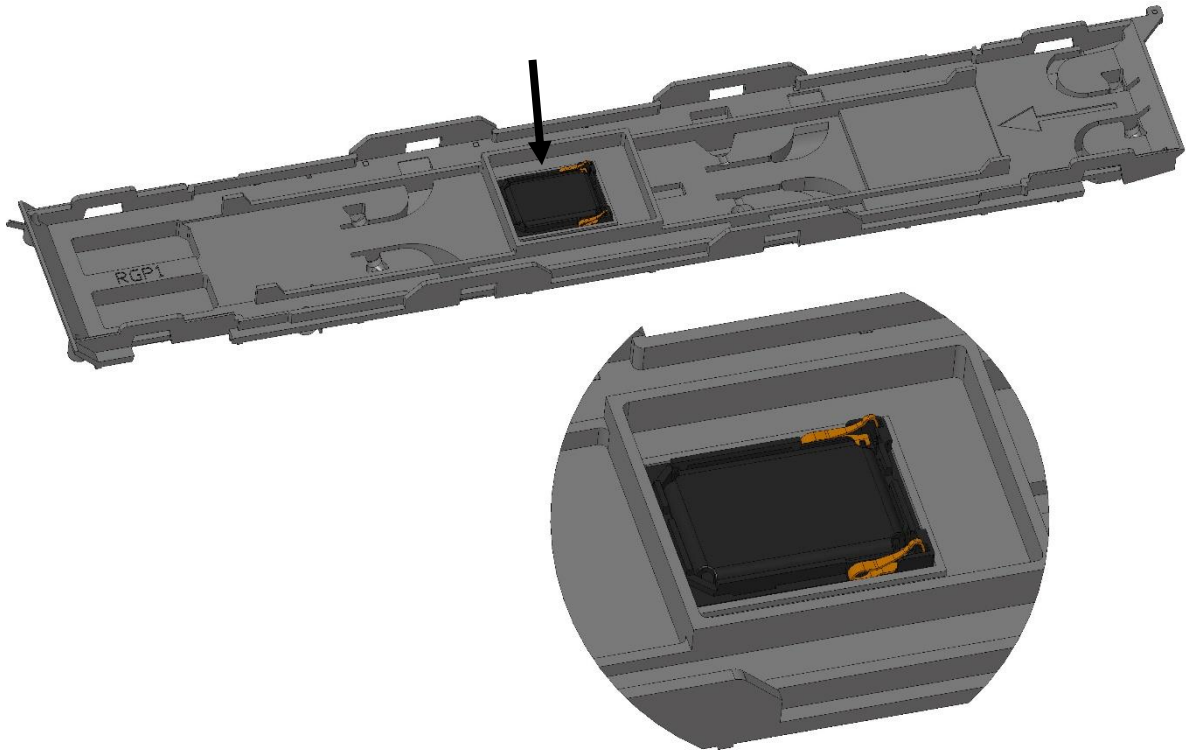
- Remove body from frame as indicated on previous chapter,
- Disassemble the underframe, it is held in place on frame by 4 clips on each side, lever out those clips one by one with a small screwdriver, then remove the underframe,



- Remove, gently, the analog plug. Then place a Plux22 decoder at the right location,



- To fit model with sound feature, remove the loudspeaker seal protection sheet. Stick the loudspeaker inside the sound box on the underframe. Be careful of how the loudspeaker is laid: the 2 loudspeaker's contacts must be on indicated direction.

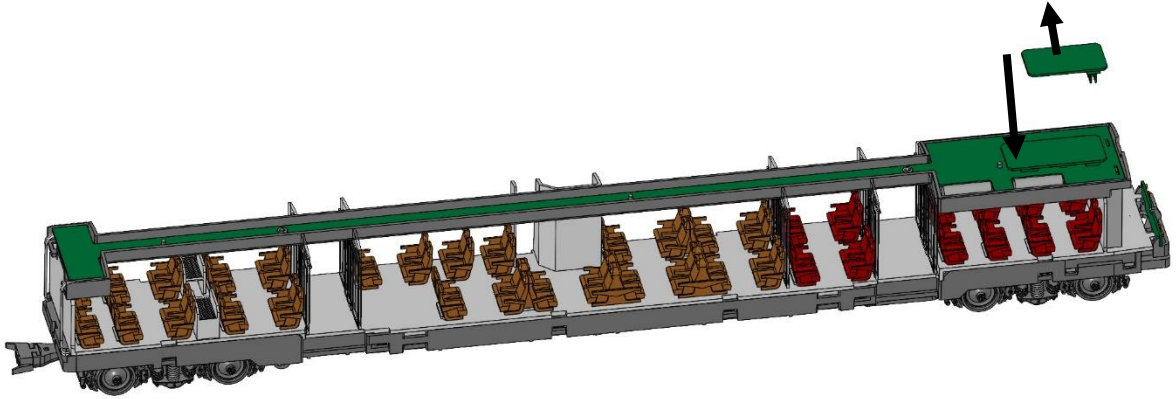


Loudspeaker's connection is automatic by putting in in place the underframe.

- Reassemble engine by following the reverse order:
 - Clip the underside of the chassis,
 - Insert the body on the frame.

In the trailer, main electronic board is located on the top of the interior.

- Remove body from frame as indicated on previous chapter,
- Remove, gently, the analog plug. Then place a Plux16 decoder at the right location,



- Reassemble trailer's body on frame.

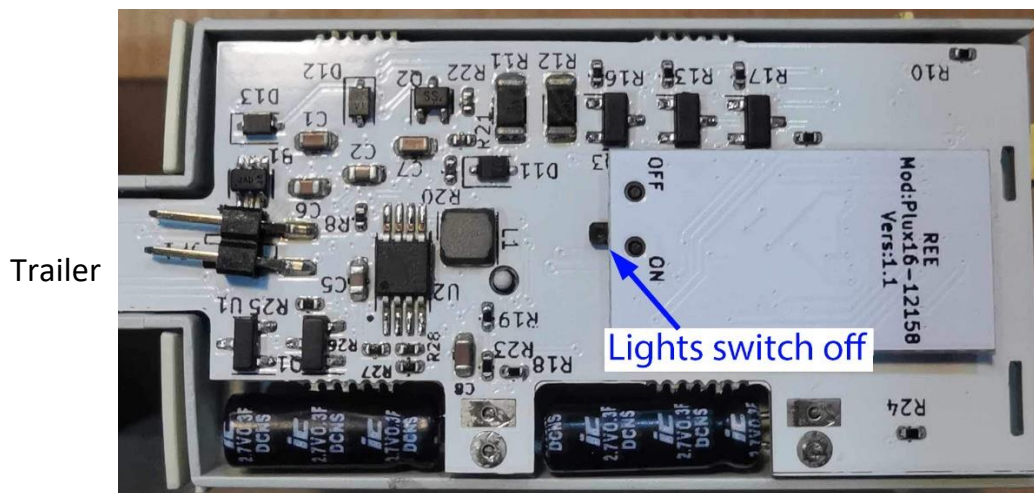
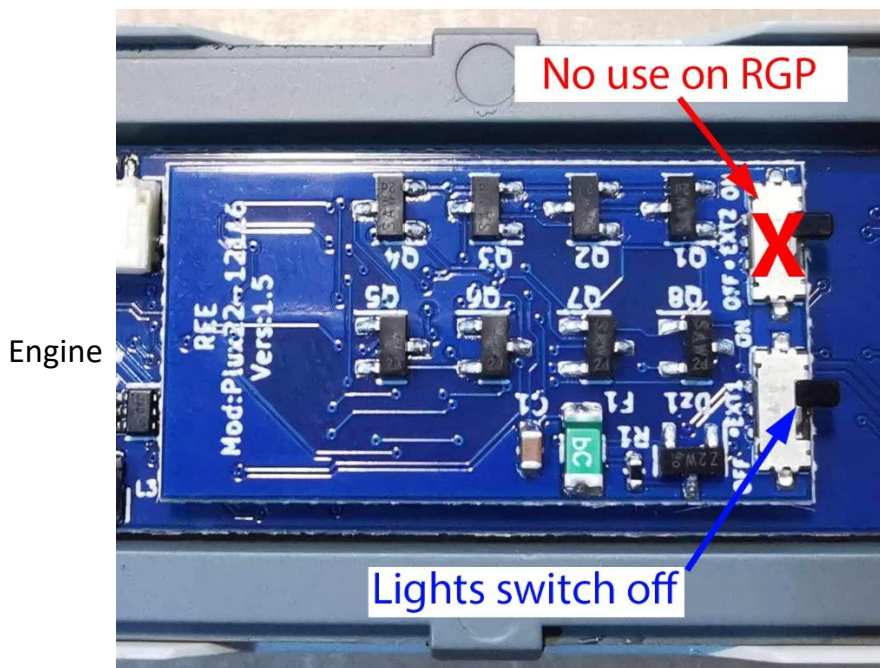
5. Electronics.

A. Analog mode.

By default, the following functions are activated:

- Inverted according running direction: white lights, red lights and cab lights,
- Constant: passengers' area.

By disassembling the model as previously indicated, you can access a switch on the analog plugs that allows you to turn off the lights and the cabin of the engine and of the trailer.



B. Digital DCC.

DCC sound models are delivered with a ESU sound decoder Plux22 in the engine and a REE decoder Plux16 in the trailer.

The complete train set, therefore, has two decoders.

For any changes to CVs, especially when changing the address of the train, the procedure must be done in two steps: program the engine first and then the trailer. Programming both elements at the same time will not work.

Important: the locomotive and the trailer must have the same address,

otherwise, not all functions will work.

Decoders reset to factory parameters:

Reset needs to be done in 2 times:

- Engine alone on programming track: CV8 = 8
- Trailer alone on programming track: CV8 = 10

Conversion to DCC:

To digitise DC analog models, we recommend using the specially programmed decoders from the REE line.

- Pack XB-RGP1-MOD-01:
 - Decoder RGP-1-MOD ESU Plux22 SOUND + Loudspeaker (REE Sounds)
 - Decoder Remorque RGP-1-MOD REE Plux16 Fonction (REE Program)
- Pack XB-RGP1-MOD-02:
 - Decoder RGP-1-MOD ESU Plux22 Lokpilot (REE Program)
 - Decoder Remorque RGP-1-MOD REE Plux16 Fonction (REE Program)

REE will not be responsible of dysfunction in case of customer programmed decoder.

To carry this work out, it is necessary to disassemble some parts of the model. If you are not familiar with this kind of work, we recommend you ask your dealer to perform this work or to direct you to a specialist.

6. Sound decoder functions

Only on DCC versions.

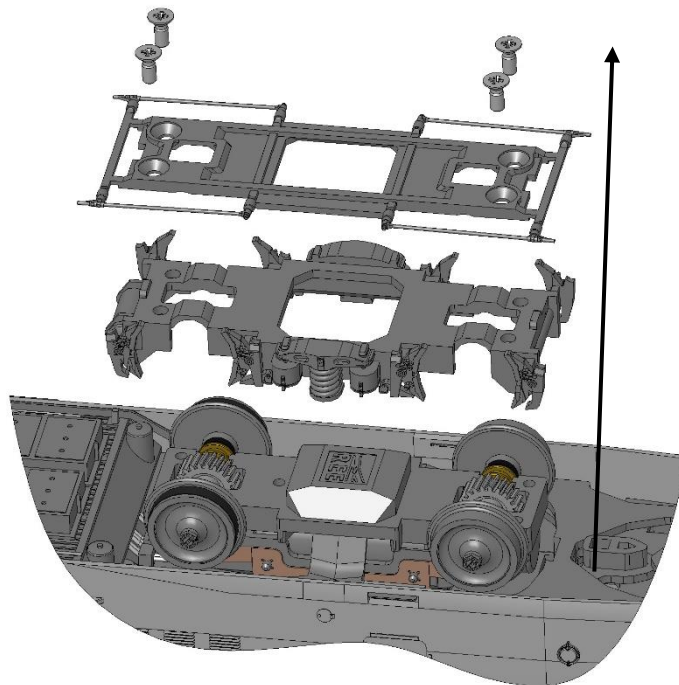
N°	Fonctions
0	Cab 1 front lights - According to running direction
1	F1 : Motor sound On/Off
2	Whistles
3	Trailer rear lights - According to running direction
4	F4 then F1 : cold start
5	Manual cab light - According to running direction
6	Half speed mode
7	Passenger's area lights
8	idle acceleration
9	Motor's compartment lights
10	Emergency braking
11	Coupling / uncoupling
12	Station master whistle - Cabin departure indicator
13	Passengers door
14	Luggage door
15	Announcement
16	Announcement
17	Announcement
18	Announcement
19	Announcement
20	Announcement
21	Announcement
22	F22 puis F1 : tremor start
23	Decrease sounds volume

7. Tyres replacement and lubrication.

To carry this work out, it is necessary to disassemble some parts of the model. If you are not familiar with this kind of work, we recommend you ask your dealer to perform this work or to direct you to a specialist. There are two traction tyres on one axle of motor bogie.

The following sketches illustrate the procedure.

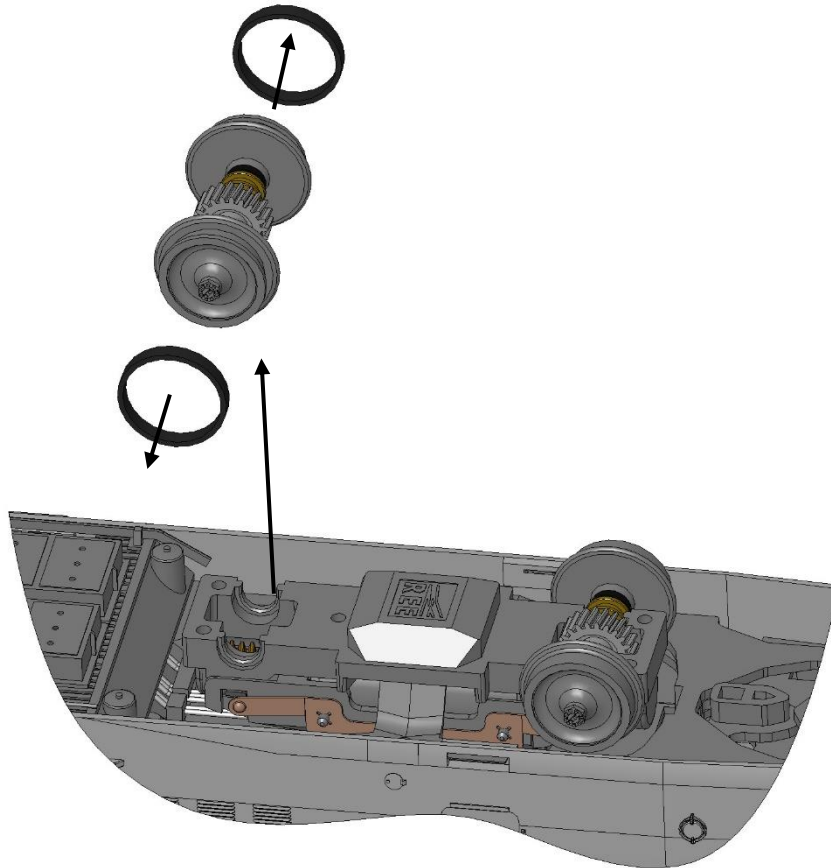
- Disassemble the bogie bottom and brake links. Those parts are screwed on bogie's frame. Unscrew the 4 screws and then remove gently the parts,



Lubrication: lubricate gears and bearings then reassemble the bogie.

BEWARE: only fine model grease in little quantity. Thick grease can damage the motor and possible harms would be out warranty.

- Tyre replacement: remove the axle showing wheels with tyres and change the rubber tyres,



- Reassemble every parts.

Be careful to correctly set the pickup!

Note: To make a model with no tyre, specific axles with no tyre are available from our After-Sales-Service.

Contact: sav@ree-modeles.com or +33(0)1.60.58.60.60

8. Spare parts

In case of breakage, wear or loss of a component, REE provides a spare parts service that you can contact directly or through your dealer.

In the following pages, you will find pictures, names and references of all the parts of this engine.

BEWARE!

For any spare part order, you have to precise:

1/ The part's reference given in the following charts



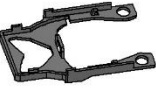
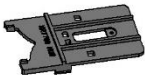


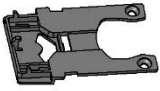
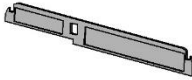
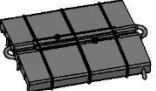



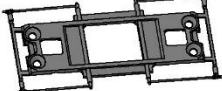
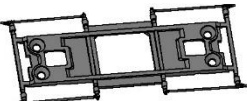





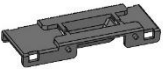
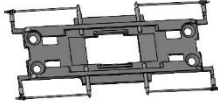

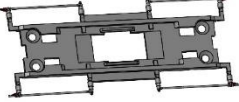
**2/ The reference of your model box
(on the sticker: "MB-055" for example)**

AND

Your NAME, SURNAME and POSTAL ADDRESS

Note: In the following charts, the CAD parts colours can be different from your model. This is why it is important to specify the reference of your train set.

PARTS REFERENCES

	B-01671-00 SUPPORT TIMON RGP E2		B-01708-01 BRIDE TIMON XR7700 E2
	B-01672-01 SUPPORT TIMON RGP1 MOD E1		B-01709-00 BRIDE TIMON XR7700 MOD E1
	B-01675-00 BRIDE TIMON RGP E2		B-01710-01 RESERVOIRE CARBURANT XR7700
	B-01676-00 BRIDE TIMON RGP1 MOD E1		B-04557-00 PARESOLEIL RGP MOD
	B-01682-01 RESERVOIRE CARBURANT RGP1		B-06147-03 FLANCS BOGIE RGP1 AR RGP2
	B-01689-00 RESERVOIRE AIR RGP1 MOD		B-06148-03 FLANCS BOGIE RGP1 AV X2800
	B-01690-00 RESERVOIRE AIR RGP1 MOD KVB		B-06150-01 TRINGLERIE BOGIE RGP1 AR RGP2
	B-01691-01 BALISE KVB		B-06151-01 TRINGLERIE BOGIE RGP1 AV X2800
	B-01692-00 RESERVOIRE EAU RGP1		B-06155-01 CAPOT BOGIE PORTEUR
	B-01698-00 PROTECTION CHASSIS X2800		B-06158-01 CAPOT MOTEUR
	B-01699-00 TUYAUX CHASSIS RGP1		B-06162-01 CAPOT BOGIE PORTEUR AC
	B-01702-00 DESCENTE WC		B-06164-00 TRINGLERIE BOGIE RGP1 AR RGP2 AC
	B-01706-00 SUPPORT TIMON XR7700 MOD E1		B-06165-00 TRINGLERIE BOGIE RGP1 AV X2800 AC

	B-03101-00 TRINGLERIE BOGIE XR7700		B-18031-01 VIS ISO 7046-1 - M1_6 x 4 - 4.8 - Z
	B-03004-01 VIS M2 x 4		B-18032-00 VIS ISO 7046-1 - M2 x 5 - 4.8 - H
	B-09035-00 RESSORT		B-18033-00 VIS M1_2 X 2-5
	B-09122-01 TIMON RGP1 AR		B-60216-00 PARE-FUMEE MOD DROIT
	B-09123-01 TIMON		B-60217-00 PARE-FUMEE MOD GAUCHE
	B-09124-01 TIMON XR7700		B-60218-00 ECHAPPEMENT MOD
	B-09125-01 BOITIER NEM AUTORAILS		B-60219-00 GRANDE GRILLE RGP1
	B-09126-01 BOITIER NEM XR7700		B-60220-00 PETITE GRILLE RGP1
	B-11080-00 PDC BOGIE MOTEUR		B-60224-00 GRAND VENTILATEUR
	B-11081-02 PDC BOGIE PORTEUR		B-60225-00 PETIT VENTILATEUR
	B-11082-00 PDC BOGIE XR7700		B-60226-00 DESSOUS VENTILATEURS RGP1 X2800
	B-11084-00 LAMELLE XR7700		B-60232-00 PLATEAU TAMPON
	B-13055-00 CONDUIT PHARES BLANCS RGP1 MOD		B-60245-00 PLATEAU TAMPON RGP1 XR7700
	B-13056-00 CONDUIT PHARES ROUGES RGP1 MOD		B-60248-00 TRAVERSE AVANT MOD
	B-13058-00 DIFFUSEUR ECLAIRAGE CABINE		B-60249-00 TRAVERSE AVANT MOD COUPEE

	B-60322-00 BOURRELET UIC		B-62052-00 RAMBARDES RGP1
	B-62000-00 ANTENNE		B-62055-00 RAMBARDES PASSAGERS RGP1 MOD
	B-62003-00 GRANDE MARCHE RGP1		B-62063-00 RAMBARDE AVANT RGP1 MOD
	B-62008-00 MARCHE VOYAGEUR RGP1 MOD		B-62065-00 PORTE LANTERNE RGP1 MOD
	B-62009-01 MARCHEPIED AVANT RGP1 MOD GAUCHE		B-62072-00 AERATEUR CYLINDRE
	B-62010-01 MARCHEPIED AVANT RGP1 MOD DROIT		B-62073-00 AERATEUR CYLINDRE GPS
	B-62025-00 CONDUITE GENERALE HAUTE		B-62075-00 AERATEUR WC
	B-62026-00 CONDUITE PRINCIPALE HAUTE		B-62077-00 PETIT MARCHEPIED
	B-62029-00 ESSUIEGLACE RGP1 MOD		X-09069-00 RESSORT D1.3 S16
	B-62036-00 PRISE AVANT FERMEE		M018-SE17 BOGIE MOTEUR RGP1-X2800 MOD AV
	B-62037-01 PRISE AVANT OUVERTE		M018-SE20 BOGIE PORTEUR RGP1-2 MOD
	B-62038-01 PRISE ELEC AVANT		M018-SE17AC BOGIE MOTEUR RGP1-X2800 MOD AV
	B-62039-00 PRISE KEOPS FERMEE		M018-SE20AC_SKI BOGIE PORTEUR RGP1-2 MOD
	B-62040-00 PRISE KEOPS CABLE		M018-SE23 DESSOUS CHASSIS RGP1 MOD ORI
	B-62041-00 PRISE KEOPS RGP1 MOD		M018-SE24 DESSOUS CHASSIS RGP1 MOD

	M018-SE36 TIMON AIMANT RGP1 E2		
	M018-SE45 TAMPONS AUTORAILS		
	M018-SE49 ESSIEU D900 MOTEUR MOD		
	M018-SE50 ESSIEU D900 MOTEUR MOD BANDAGES		
	M018-SE56 ESSIEU D860 PORTEUR MOD		
	M018-SE49AC ESSIEU D900 MOTEUR MOD		
	M018-SE50AC ESSIEU D900 MOTEUR MOD BANDAGES		
	M018-SE56AC ESSIEU D860 PORTEUR MOD		
	M018-SE65 Ensemble moteur avec fils et connecteur		
	M018-SE71 ACCESSOIRES RGP1 G- H		
	M018-SE74AC SKI AUTORAIL		
	V015-SE21 BOGIE XR7700 MOD		
	V015-SE21AC BOGIE XR7700 MOD		
	V015-SE35 ESSIEUX 860 MOD REMORQUE		
	V015-SE46 ACCESSOIRES XR7700 I-J		



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