

X-2800 RAILCARS



OPERATING MANUAL

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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 the railcar from the 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.

Here you are, your model is ready to run.

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

Its traction capacity has been designed to haul realistic trains of about 3-4 passenger cars showing configurations.

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.



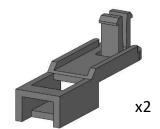
2. Couplings and accessories

The railcar is delivered with the two front plates completely detailed. There are no standard coupler's supports 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 avaliable:

- Two NEM 360 coupler's support,



- Two standard couplers.



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

- A complete set of front plate accessories, shorten to make coupler movement possible.



Rem: Depending on versions, detailing parts and quantity may vary a bit.



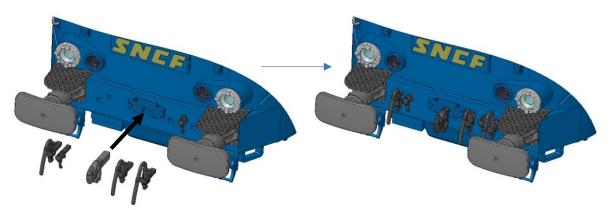
B. Coupler assembly

To fit a standard coupler's support:

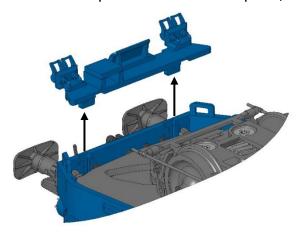
- First remove the complete front plate's details,



- Put in place the shorter details,



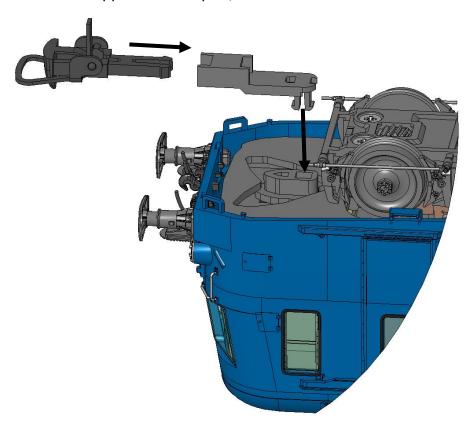
- Remove the part under the front plate,



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



- Insert NEM support and coupler,



- Final look.





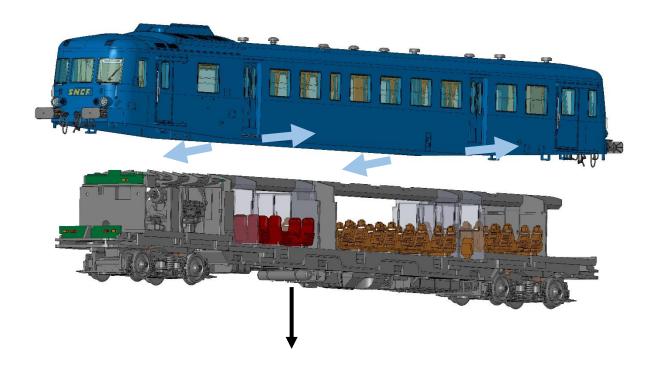
3. Body disassembly

- First, remove parts under front plates as indicated previously,



- Body is held in place on frame by several clips located between passengers' doors.

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



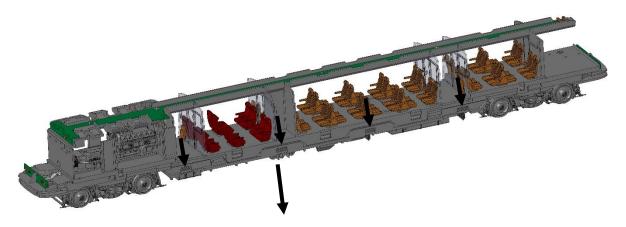
To make this operation easier, there is no electric connection between body and frame.



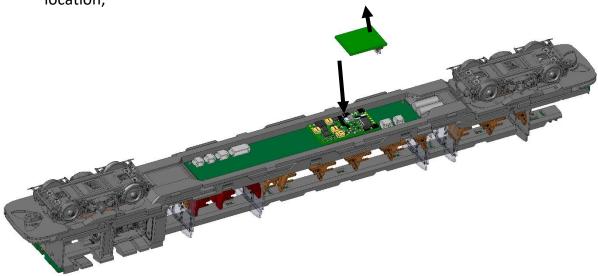
4. Decoder installation/Replacement

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,

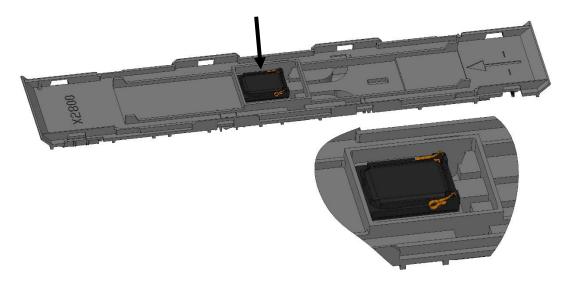


 Remove, gently, the analog plug. Then place a PLUX22 decoder at the right location,





- 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 railcar by following the reverse order:
 - Clip the underside of the chassis,
 - o Insert the body on the frame,
 - o Reassemble the parts under the front plates.



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 lifting up the body as shown above, you can access to 4 switches on the analogue plug. They allow to switch off white and/or red lights for both model ends. So you can choose to switch off the lights on NEM box side and in the same time to keep the lights inverted on the other end.





B. Digital DCC.

DCC sound models are delivered with a ZIMO sound decoder PLUX22.

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

- XB-427: Decoder X-2800 ZIMO Plux22 SOUND + loudspeaker (REE Sounds)
- XB-428: Decoder X-2800 ZIMO Plux22 (REE Program)
- XB-429: Decoder X-2800 ESU Lokpilot Plux22 (REE Program)

It is possible to use other decoders, but in this case, they need to be configured (functions mapping) so that all the model's functions are working.

As each decoder are configurated on a different way, we invite you to check the decoder's instruction sheet to make the best mapping for your use or to visit your local resseller for advice.

Physical output on the electronic board are wired on the following way:

Output	Matching ligths
FO0v	Forward white lights
FO0r	Rear white lights
FO1	Forward red lights
FO2	Rear red lights
FO6	Forward Driver's cab light
FO7	Rear Driver's cab light
FO9	Motor's room light
FO10	Passenger's compartment light

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 funtions

Only on DCC version.

N°	Functions
F0	White and red ligths – According to running direction (F20 OFF)
F1	Motor sound On/Off – Normal start-up
F2	Whistles - 3 different sounds (F1 ON)
F3	Aborted start-up (F1 OFF)
F4	Departure announcement + Station master whistle
F5	Cab light - According to running direction
F6	Acceleration/brake time, shunting mode/shunting speed (4 white lights)
F7	Passenger's area lights
F8	Freewheeling
F9	Cold start (F9 ON first then F1 ON)
F10	Red lights deactivation
F11	Motor's room light
F12	Luggage door: Open / Close
F13	Passenger door: Open / Close
F14	Coupling / uncoupling
F15	Arrival announcement
F16	Pump before start-up
F17	Wheels on turnout (10 secondes delay)
F18	Brake noise deactivation
F19	Disabling sounds
F20	Activation 4 red lights parking mode (F6 OFF)
F21	Air bleed after engine shutdown
F22	Increase intensity of white lights only
F23	Increase sounds volume
F24	Decrease sounds volume
F25	Missed whistle (3 different)
F26	Speed recorder
F27	Sand pit
F28	Speed Lock Zimo

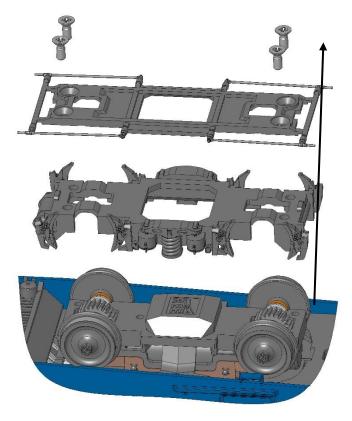


7. Tyres replacement and lubrication.

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.

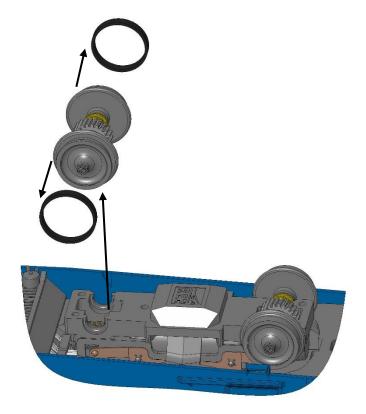


Lubrication: lubricate gears and bearings then reassemble the bogie.

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: <u>sav@ree-modeles.com</u> 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 railcar.



PARTS REFERENCES

	B-01673-00 SUPPORT TIMON RGP2 X2400 X2800	B-04491-01 BANQUETTE APPUI TETE SNCF 3PL DOUBLE
	B-01677-00 BRIDE TIMON RGP2 X2400 X2800	B-04492-01 BANQUETTE APPUI TETE SNCF 3PL SIMPLE DRT
	B-01685-01 RESERVOIR CARBURANT X2800	B-04493-01 BANQUETTE APPUI TETE SNCF 3PL SIMPLE GCH
	B-01688-00 RESERVOIR AIR X2800	B-04509-01 SIEGES SNCF 1ER
	B-01696-00 GRILLE CHASSIS X2800 1	B-04511-01 SIEGES SNCF MOD SIMPLE
	B-01697-00 GRILLE CHASSIS X2800 2	B-04512-01 SIEGES SNCF SKAI MOD DOUBLE
	B-01698-00 PROTECTION CHASSIS X2800	B-04513-00 SIEGES SNCF SKAI MOD SIMPLE
	B-01702-00 DESCENTE WC	B-04515-00 SIEGE CABINE MOD
	B-01703-00 COFFRE ACCUS X2800	B-04516-00 STRAPONTIN X2800
Page 1	B-04483-02 PLAFONNIER RGP1 X2800	B-04517-00 STRAPONTINS DOUBLES
	B-04488-01 BANQUETTE APPUI TETE SNCF 2PL DOUBLE	B-04539-00 VOLANT SERRE FREIN
	B-04489-01 BANQUETTE APPUI TETE SNCF 2PL SIMPLE DRT	B-04553-00 FLAMAN
	B-04490-01 BANQUETTE APPUI TETE SNCF 2PL SIMPLE GCH	B-04556-00 PARESOLEIL ANCIEN



	B-06148-03 FLANCS BOGIE RGP1 AV X2800	=	B-12110-00 PCB PRINCIPAL AUTORAILS
8	B-06151-00 TRINGLERIE BOGIE RGP1 AV X2800		B-12111-00 PCB PLAFONNIER RGP1 X2800
	B-06153-00 ETRIER BOGIE E1		B-12116-00 DUMMY PLUG PLUXX22
	B-06154-00 ETRIER BOGIE E2		B-12119-00 PCB PHARES RGP2 X2400 X2800 ORI E1
	B-06163-00 ETRIER BOGIE E2 AC	# #	B-12120-00 PCB PHARES X2800 ORI E2
	B-06165-00 TRINGLERIE BOGIE RGP1 AV X2800 AC		B-12121-00 PCB PHARES X2800 MOD E1
	B-07090-01 PIGNON 04 Z22 HELICOIDAL		B-12122-00 PCB PHARES X2800 MOD E2
	B-08242-01 PAREBRISE X2800		B-12128-00 PCB CAB RGP1 X2800
	B-08243-01 VITRE X2800 DROIT		B-13053-00 CONDUIT PHARES ANCIEN
	B-08244-01 VITRE X2800 GAUCHE		B-13054-00 CONDUIT PHARES MOD
	B-08245-01 VITRE X2800 DROIT MOD		B-13056-00 CONDUIT PHARES ROUGES RGP1 MOD
	B-08246-01 VITRE X2800 GAUCHE MOD		B-13058-00 DIFFUSEUR ECLAIRAGE CABINE
	B-09123-01 TIMON	O	B-15118-00 BANDAGE ROUE 900
	B-09125-00 BOITIER NEM AUTORAILS		B-15119-00 ECROU ROUE ORI
n o	B-11080-00 PDC BOGIE MOTEUR		B-15120-00 ECROU ROUE MOD



	B-60210-01 DESSOUS TRAVERSE ANCIEN	, , , , , , , , , , , , , , , , , , , 	B-60272-01 RIDEAUX CENTRAL DROIT X2800
	B-60212-01 DESSOUS TRAVERSE MOD	P 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	B-60273-01 RIDEAUX CENTRAL GAUCHE X2800
PA	B-60216-00 PARE-FUMEE MOD DROIT	7 17 7	B-60274-01 RIDEAUX E2 DROIT X2800
	B-60217-00 PARE-FUMEE MOD GAUCHE	7 17 1	B-60275-01 RIDEAUX E2 GAUCHE X2800
	B-60218-00 ECHAPPEMENT MOD		B-60291-00 PORTE BAGAGES 1ER 2 X2800
	B-60222-00 GRANDE GRILLE X2800		B-60293-00 PORTE BAGAGES 2E CLOISON DRT X2800
	B-60223-00 PETITE GRILLE X2800		B-60294-00 PORTE BAGAGES 2E CLOISON GCH X2800
	B-60224-00 GRAND VENTILATEUR		B-60295-00 PORTE BAGAGES 2E CLASSE ORI E2 X2800
	B-60225-00 PETIT VENTILATEUR		B-60296-00 PORTE BAGAGES 2E CLASSE ORI X2800
	B-60232-00 PLATEAU TAMPON		B-60298-00 PORTE BAGAGES CENTRAL DRT MOD X2800
	B-60233-00 CENTRE BOISSEAU TAMPON		B-60300-00 PORTE BAGAGES CENTRAL GCH MOD X2800
	B-60243-00 ARRIERE BOISSEAU X2800 AVANT		B-60302-00 PORTE BAGAGES E1 MOD X2800
	B-60244-00 ARRIERE BOISSEAU X2800 ARRIERE		B-60305-00 PORTE BAGAGES E2 MOD X2800
	B-60252-00 ENTOURAGE PHARE ANCIEN		B-60309-00 PORTE BAGAGES 1ER CLOISON X2800
	B-60253-00 ENTOURAGE PHARE MOD		B-62007-00 MARCHE VOYAGEUR X2800



	D 63044 00		D C2050 00
	B-62011-00 MARCHEPIED AVANT MOD GAUCHE X2800		B-62059-00 RAMBARDE X2800 ARRIERE VERTI
	B-62012-00 MARCHEPIED AVANT MOD DROIT X2800		B-62060-00 RAMBARDE X2800 VERTI PAREBRISE
	B-62014-00 MARCHEPIED AVANT RC ANCIEN X2800		B-62061-00 RAMBARDE X2800 FOURGON
1	B-62021-00 CONDUITE GENERALE		B-62062-00 RAMBARDE X2800 PORTE FOURGON
-\$\int\	B-62022-00 CONDUITE GENERALE COUPE		B-62064-00 PORTE LANTERNE ANCIEN X2400
G	B-62023-00 CONDUITE PRINCIPALE	00	B-62066-00 PLAQUE CLASSE
Æ	B-62024-00 CONDUITE PRINCIPALE COUPE		B-62071-00 AERATEUR DOME
G	B-62026-00 CONDUITE PRINCIPALE HAUTE		B-62072-00 AERATEUR CYLINDRE
1	B-62027-00 CONDUITE PRINCIPALE HAUTE COUPE		B-62073-00 AERATEUR CYLINDRE GPS
	B-62033-00 ESSUIE GLACE X2800		B-62074-00 AERATEUR HAUT X2800
q.	B-62036-00 PRISE AVANT FERMEE		B-62075-00 AERATEUR WC
	B-62037-01 PRISE AVANT OUVERTE		X-09069-00 Ressort D1.3 S16
B	B-62039-00 PRISE KEOPS FERMEE		X-15060-00 PALIER BRONZE
	B-62057-00 RAMBARDE X2800 AVANT HORI	×2 2	M020-SE27 Sachet d'accessoires X2800 ancien
	B-62058-00 RAMBARDE X2800 AVANT VERTI	**************************************	M020-SE28 Sachet d'accessoires X2800 moderne



M018-SE72AC ESSIEU D900 PORTEUR ORI		
M018-SE73AC ESSIEU D900 PORTEUR MOD		
M018-SE74AC SKI AUTORAIL		
M018-SE47 ESSIEU D900 MOTEUR ORI		
M018-SE48 ESSIEU D900 MOTEUR ORI BANDAGES		
M018-SE49 ESSIEU D900 MOTEUR MOD		
M018-SE50 ESSIEU D900 MOTEUR MOD BANDAGES		
M018-SE15 BOGIE MOTEUR X2800 ORI AV		
M018-SE16 BOGIE MOTEUR X2800 ORI AR		
M018-SE17 BOGIE MOTEUR X2800 MOD AV		
M018-SE18 BOGIE MOTEUR X2800 MOD AR		
M020-SE24 TAMPONS X2800 AV		
M020-SE25 TAMPONS X2800 AR		
M018-SE65 Ensemble moteur avec fils et connecteur		
X080-D1 Boîte X2800		
	ESSIEU D900 PORTEUR ORI M018-SE73AC ESSIEU D900 PORTEUR MOD M018-SE74AC SKI AUTORAIL M018-SE47 ESSIEU D900 MOTEUR ORI M018-SE48 ESSIEU D900 MOTEUR ORI BANDAGES M018-SE49 ESSIEU D900 MOTEUR MOD M018-SE50 ESSIEU D900 MOTEUR MOD M018-SE15 BOGIE MOTEUR X2800 ORI AV M018-SE16 BOGIE MOTEUR X2800 ORI AR M018-SE17 BOGIE MOTEUR X2800 ORI AR M018-SE17 BOGIE MOTEUR X2800 MOD AV M018-SE18 BOGIE MOTEUR X2800 MOD AV M018-SE24 TAMPONS X2800 AV M020-SE24 TAMPONS X2800 AR M020-SE25 TAMPONS X2800 AR M018-SE65 Ensemble moteur avec fils et connecteur	ESSIEU D900 PORTEUR ORI M018-SE73AC ESSIEU D900 PORTEUR MOD M018-SE74AC SKI AUTORAIL M018-SE47 ESSIEU D900 MOTEUR ORI M018-SE48 ESSIEU D900 MOTEUR ORI BANDAGES M018-SE49 ESSIEU D900 MOTEUR MOD M018-SE50 ESSIEU D900 MOTEUR MOD M018-SE50 ESSIEU D900 MOTEUR MOD BANDAGES M018-SE15 BOGIE MOTEUR X2800 ORI AV M018-SE16 BOGIE MOTEUR X2800 ORI AR M018-SE17 BOGIE MOTEUR X2800 MOD AV M018-SE18 BOGIE MOTEUR X2800 MOD AV M018-SE24 TAMPONS X2800 AV M020-SE24 TAMPONS X2800 AR M018-SE65 Ensemble moteur avec fils et connecteur





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