

8 Lighting accessories (sold separately)

8-1 Lighting accessories <Able to install in all cars>

This lighting accessories can use in all cars. <Either A009 or A030 can be used> Please read each instruction manual included with each lighting parts.

8-2 DCC Decoder <A059 able to install in all cars>

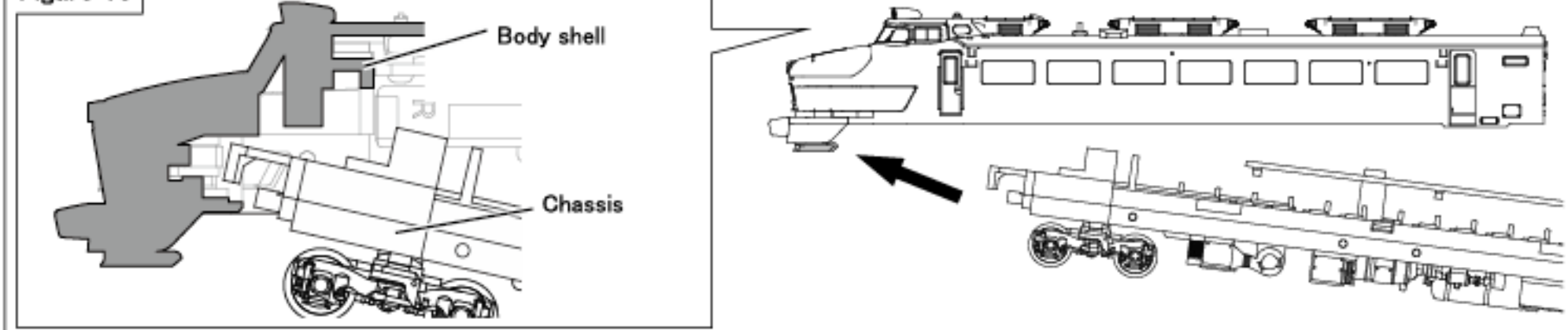
Trim a part of DCC decoder to fit, trim with nippers to install in every type of car with A059, DCC DECODER MULTIPUL TYPE (See figure 15). Please read included instruction manual of A059 for more information.

Figure 15 T030-4 JNR 485 LIMITED EXPRESS "RAICHO" JNR COLOR 5CARS BASIC SET



* Please open car as shown when installing room light or decoder (See figure16). Related cars : クハ481
* After installing room light, or decoder, turn chassis upside down to install in body as shown.

Figure 16



9 Trouble shooting

* Check followings before ordering repair.

Problem	Cause	Correction
A train does not run smoothly, or lights flicker.	There is dirt on rails.	Remove the dirt with cleaner and cloth.
	There is dirt on wheels.	Remove the dirt with cleaner and cloth.
Trains do not run.	A train derails.	Set the train properly on track using rerailer.

10 Trouble and repair

- The user is responsible for any trouble, accident, or injury caused by misuse, disassembling, or modification of this product by himself. Rokuhan will not have any responsibility of repair a product which has been opened, taken apart, or modified.
- Specification and appearance of our products are subject to change without prior notice.
- We sell completed product only.
- Take contact Rokuhan customer service if you have any questions about this product.

ROKUHAN
JAPAN
TOYTEC CORPORATION

7-27, NUMAWADA, TOCHIGI-CITY,
328-0042, JAPAN.
TEL : 81-282-20-2365
URL : <http://www.rokuhan.com/>

Opening hour: 10:00 - 12:00, 13:00-17:00
(except Saturday, Sunday, and holidays)

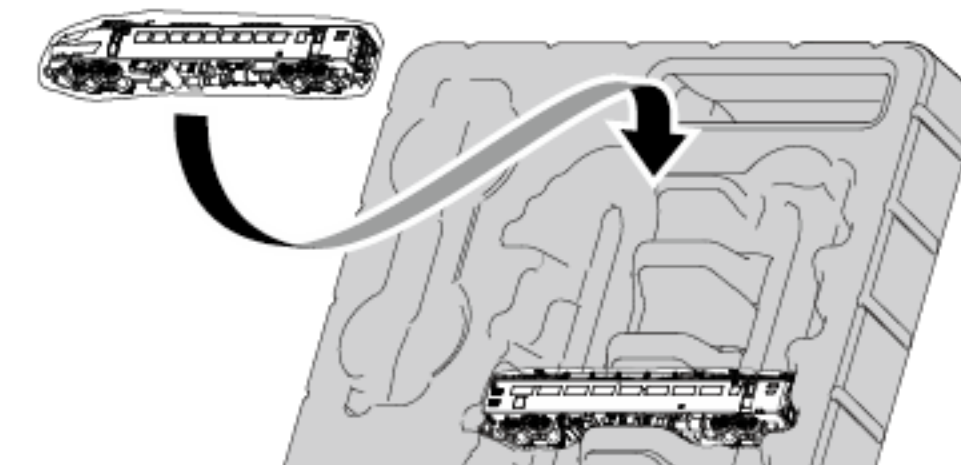
ROKUHAN
JAPAN

JNR 485 LIMITED EXPRESS "RAICHO" JNR COLOR 5CARS BASIC SET Instruction manual T030-4

Thank you for purchasing this Rokuhan product. This is precision product.
Please read this instruction manual carefully before operation and operate properly.

1 Caution

- Please operate this model with a Rokuhan controller.
- Keep clean track surface (Metal rails) before operation.
- Remove dirt and dust from wheels.
- Do NOT operate continuously over a long time.
- Do NOT suddenly change train direction. Stop train first then, change direction.
- In case of derailment or short circuit, turn off the controller and unplug AC adapter, then eliminate cause of problem.
- Disassembling and modify (modification) could cause damage to this product.
- Storing this product in direct sunlight or fluorescent light for a long time could cause discoloration.
- Keep this product away humidity, dust and heating devices.
- Do NOT operate this product in wet place or touch with wet hands.
- To avoid injury with sharp parts. Please handle with care.
- To avoid injury by using tools. Please handle with care.
- This product is NOT recommended that children under 15 years old use unless supervised by an adult.
- Keep train cars in Poly bag to avoid damage after using.



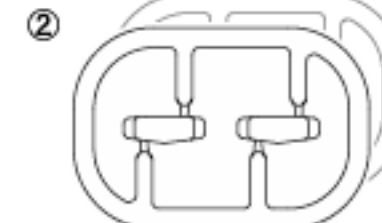
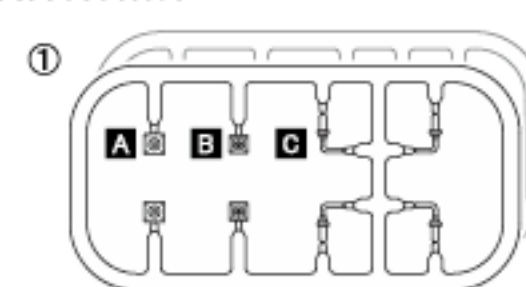
2 Parts list

T030-4 JNR 485 LIMITED EXPRESS "RAICHO" JNR COLOR 5CARS BASIC SET

Please set "RAICHO" full organization 12 cars by T030-4 and T030-2.

Cars	クハ481-120	サロ481-61	モハ484-315	モハ485-213	クハ481-125
------	-----------	----------	-----------	-----------	-----------

Accessories



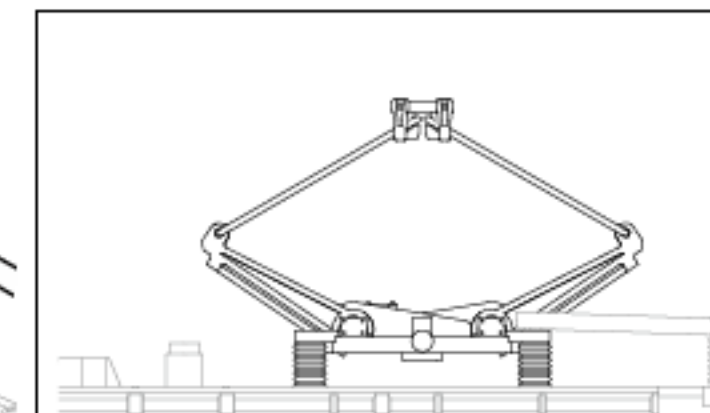
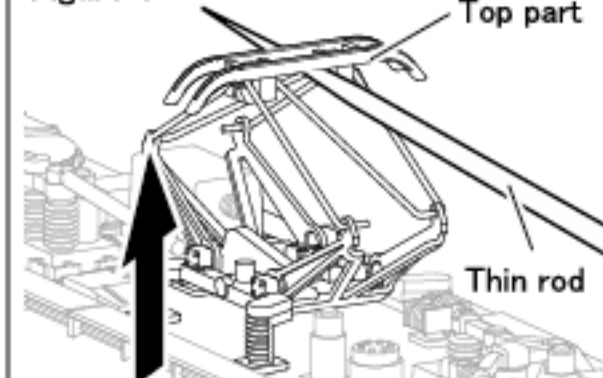
- ① Runner A 2 plates
- Antenna A 4 pcs (Usage x 1, Spare x 3)
- Antenna B 4 pcs (Usage x 1, Spare x 3)
- Antenna C 8 pcs (Usage x 2, Spare x 6)
- ② Runner B 2 plates
- 2 kinds Head mark (total 4 pcs)
- ③ Instruction manual
- English 1 sheet
- Japanese 1 sheet
- ④ Instant lettering for T030-2

3 How to handle accessories

3-1 Pantograph Related cars : モハ 484-315

① Lift-up top part softly by thinner rod or needle until stop. (See Figure 1)

Figure 1

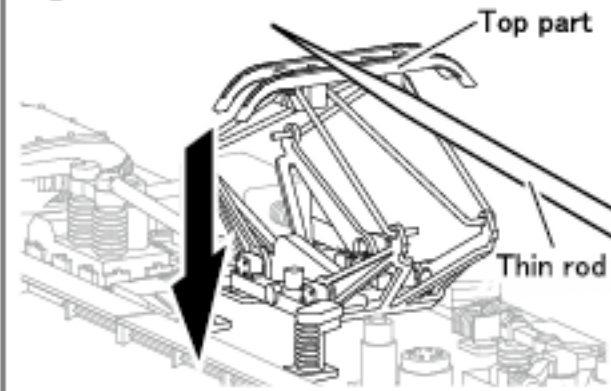


Please adjust the position as shown.

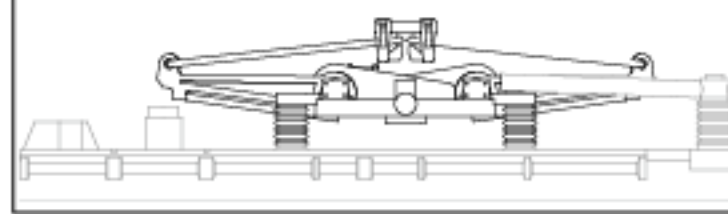
* Pantograph will be broken if pulled up too hard

② Push down top part slowly with thin rod or needle until stop. (See Figure 2)

Figure 2



Please adjust this position as shown.



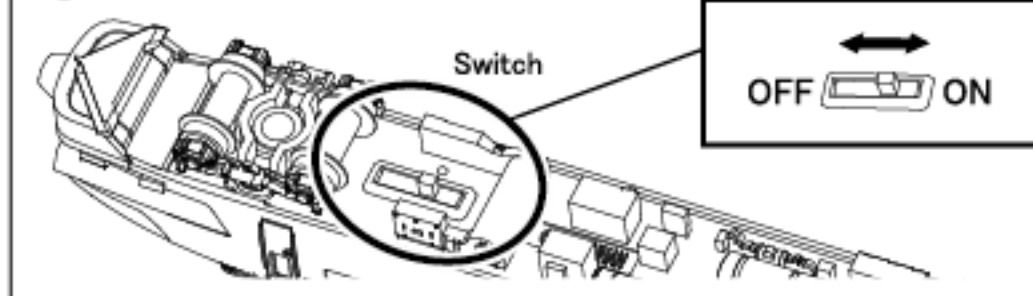
* Pantograph will be broken if pushed down too hard.

3-2 Switch off head/tail lights

Related cars : クハ481

Please check the bottom chassis to move the slide switch to the off position. (See Figure 3)

Figure 3

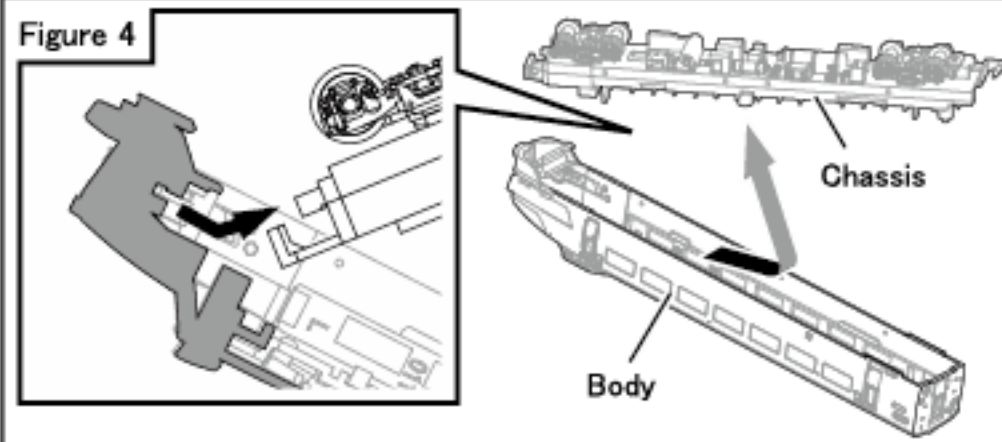


3-3 How to change Head mark

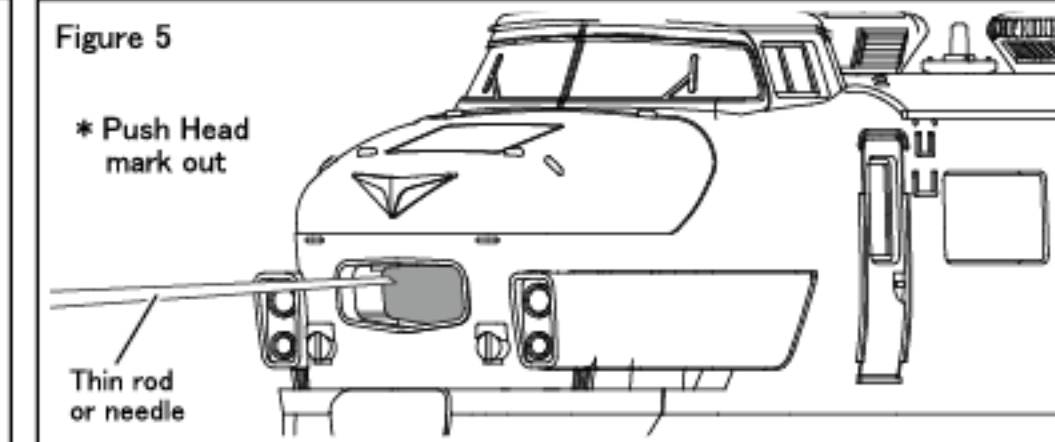
Related cars : クハ481

Please cut out the Head mark from Runner B.

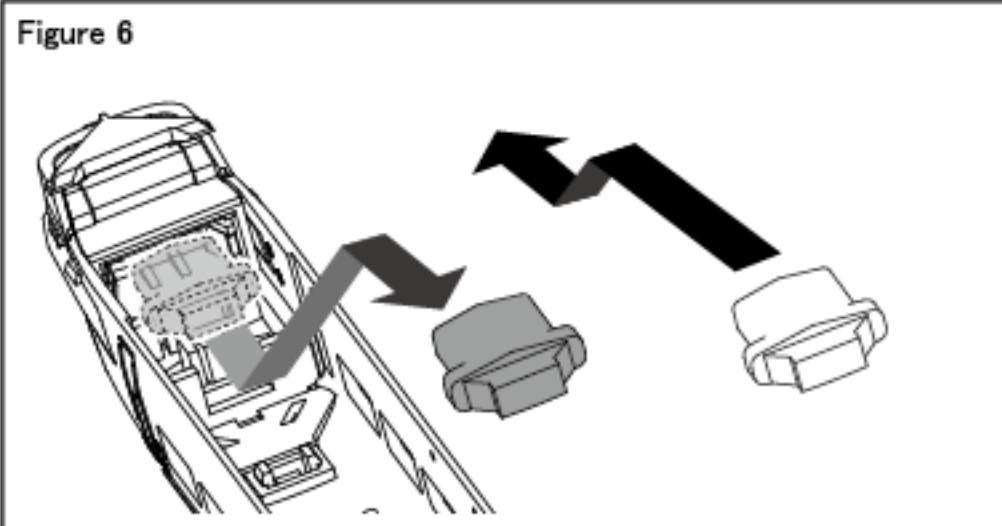
① Turn upside down and remove chassis from body shell to diagonally upward. (See Figure 4)



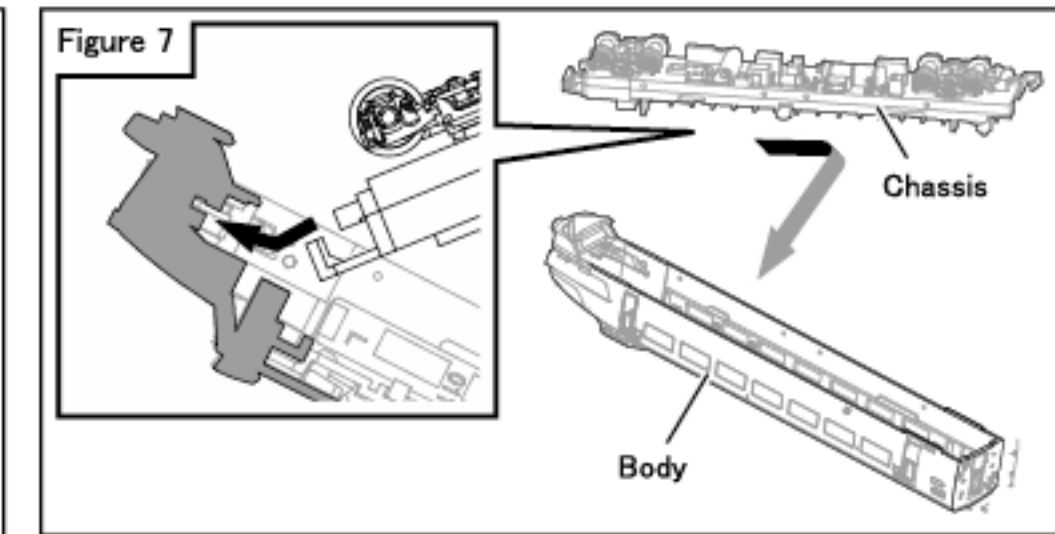
② Push head mark inside by rod or needle from outside. (See Figure 5)



③ Take out original headmark by tweezers or suitable tools. Set new headmark in reverse order and push in until seated. (See Figure 6)



④ Set chassis into body shell in reverse order. (See Figure 7)

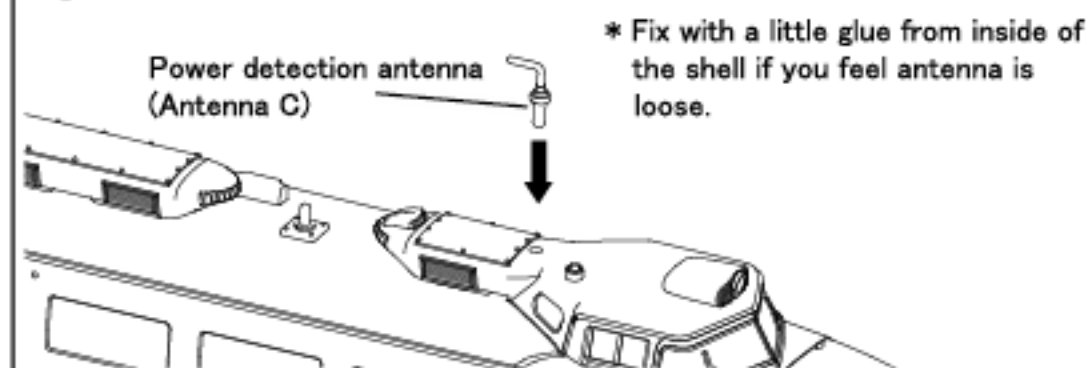


4 How to set parts

4-1 Set Antenna C on T030-4

Please set Antena C into the hole. (See Figure 8)

Figure 8



5 How to install antenna

This process is for expert users who understand this model well. Please be careful to handle tools to avoid injury and work carefully. Also, DIA 1.0mm drill and tweezers are necessary to set small antenna.

This product has no hole for wireless or telephone antenna. If you like to set antenna for your preference, please follow this instruction as below.

Related cars : クハ481、サロ481

5-1 Set Antenna A <クハ481>

- ① Take off chassis from body shell of クハ481. Turn over body shell and watch inside. Please find the hole mark, little step down, and make DIA1.0mm hole by drill blade. (See Figure 9)
- ② Set antenna A part into the hole. (See Figure 10)

Figure 9

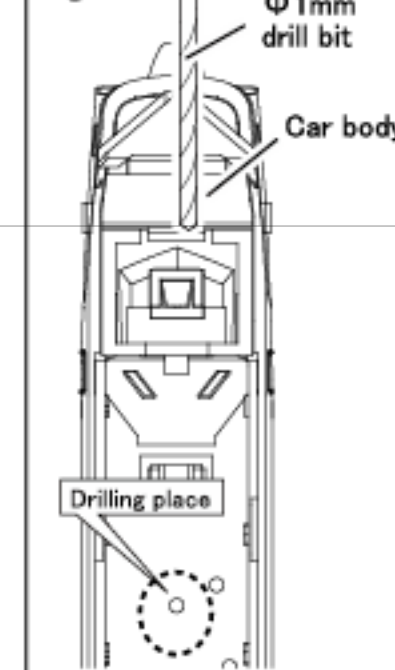
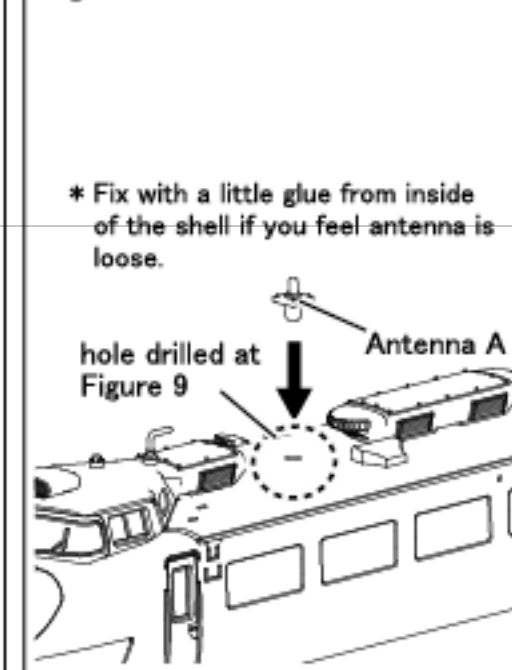


Figure 10



5-2 Set Antenna B <サロ481>

- ① Take out chassis from body shell of サロ481. Turn over body shell and look inside. Please find the hole mark, a little indent, and drill DIA1.0mm hole in body. (See Figure 11)
- ② Set antenna B part into the hole. (See Figure 12)

Figure 11

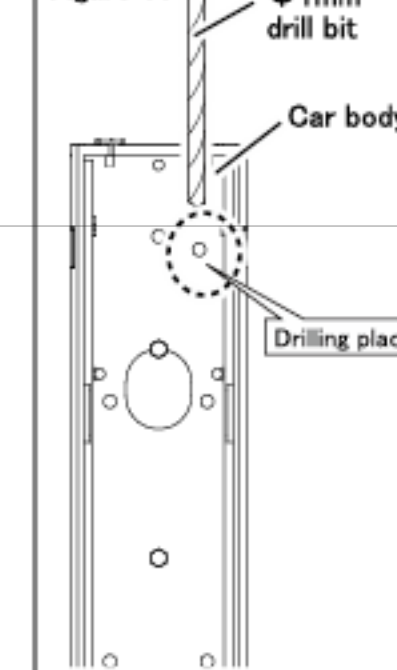
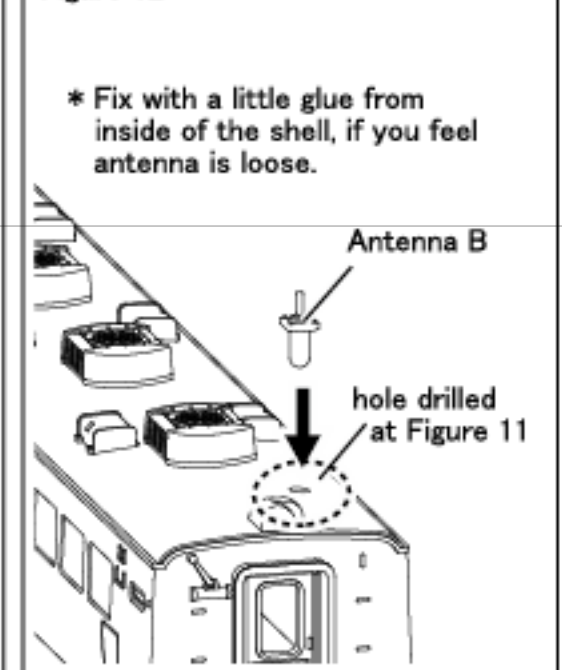


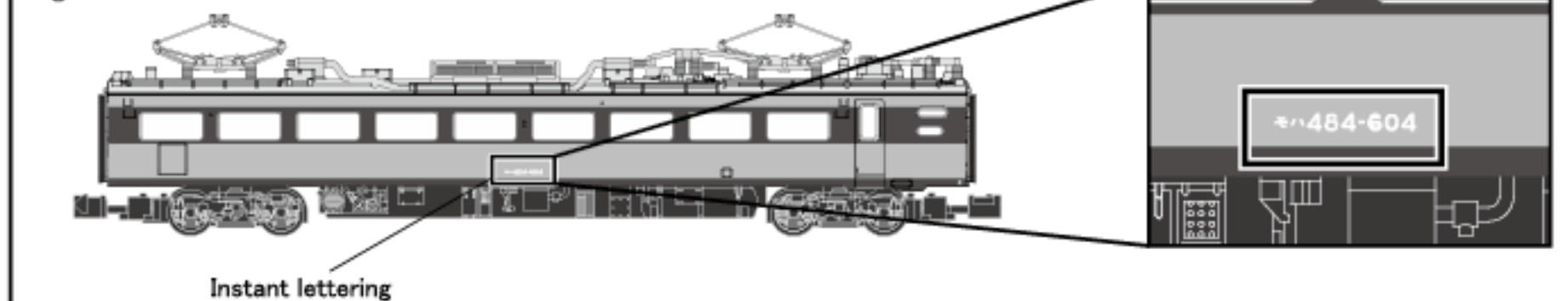
Figure 12



6 How to apply Instant lettering (For advanced modeler)

You can change the T030-2 "HIBARI Extension set"(sold separately) car number using the included instant lettering. Remove dirt and dust on the surface to be applied, and then position the instant lettering. After positioning, lightly rub the instant lettering, transcribe it and then apply it. (See Figure 13)

Figure 13



7 Formation

Please set "RAICHO" full organization 12 cars by T030-2 (sold separately).

Figure 14

←Osaka					
クハ481-120	モハ484-87	モハ485-87	サロ481-62	サロ481-61	サシ481-36
Basic set (T030-4)	Extension set (T030-2)	Extension set (T030-2)	Extension set (T030-2)	Basic set (T030-4)	Extension set (T030-2)
モハ484-235	モハ485-131	サハ481-13	モハ484-315	モハ485-213	クハ481-125
Extension set (T030-2)	Extension set (T030-2)	Extension set (T030-2)	Basic set (T030-4)	Basic set (T030-4)	Basic set (T030-4)
Toyama→					