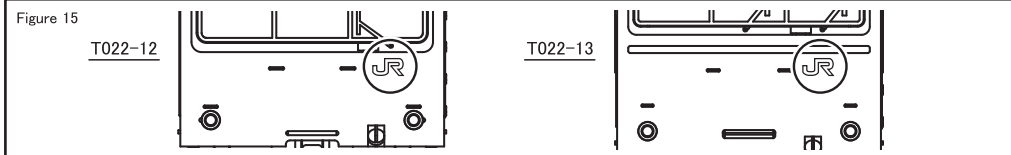


#### 4-3 How to apply Instant lettering

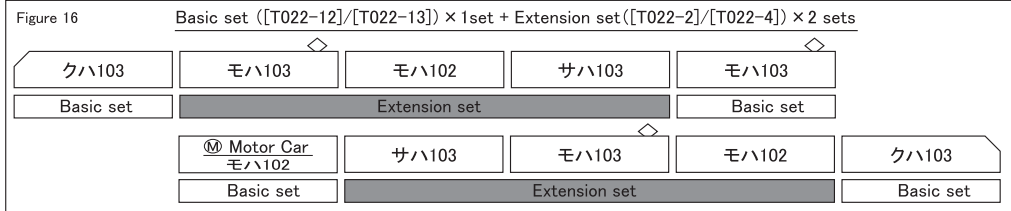
- 1) Clean up surface of the body shell before applying the instant lettering.
- 2) Lettering which will be applied should be removed from sheet with scissors or hobby knife.
- 3) Removing backing sheet and apply lettering onto body shell as shown (See Figure 15).
- 4) Press the lettering down softly, then peel off transparent sheet after making sure the lettering has been stuck down completely.



#### 5. Formation

This product can be combined with 2 sets sold separately of [T022-2 JNR103 sky blue Keihin Tohoku line type 3 cars extension set] / [T022-4 JNR103 Canary Soubu line type 3 cars extension set], then actual 10 cars set is completed. For details, refer to Figure 16.

\*Extension set is sold separately.



#### 6. Accessories (Sold separately)

##### Room light

Applicable model • All cars

This product and extension set (T022-2, T022-4 sold separately) can be equipped with (A009 room light type A sold separately) for each car.

For details, refer to the attached [A009 Room Light A type] instruction manual. Please pay attention during removing クハ103 body shell.

##### DCC Decoder Room light

Applicable model • All cars

This product can be equipped with [A059 DCC Decoder Room light multi type] that can be mounted on various cars by cutting a part of the product. For details, please refer to the instruction manual attached to the product.

#### 7. Trouble shooting

Check followings before ordering repair.

Problems	Cause	Correction
A train does not run smoothly, and 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.

#### 8. 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 has no responsibility to repair any product that 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.



7-27, NUMAWADA, TOCHIGI-CITY,

328-0042, JAPAN.

TEL : 81-282-20-2365

Opening hour: 10:00 - 12:00, 13:00-17:00

URL : <http://www.rokuhan.com/english/> (except Saturday, Sunday, and holidays)

TOYTEC CORPORATION



## T022-12 JNR 103 Sky Blue Low Cab Type Basic Set T022-13 JNR 103 Canary High Cab Type Basic Set

### Common Instruction manual

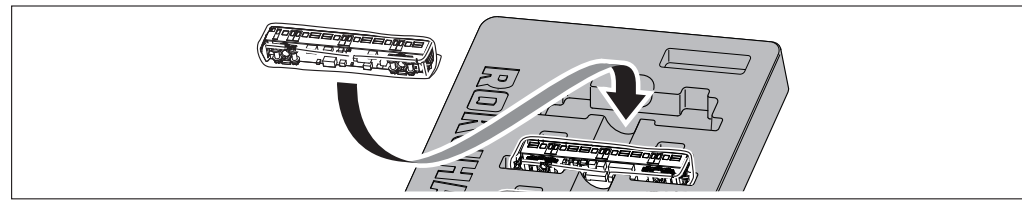
\* Side cutters, hobby knife, tweezers and pin vise (drill bit) are NOT included this product.

Thank you for purchasing this Rokuhan product.

This product is precision product. Please read this instruction manual carefully before operation and operate properly.

#### 1. Caution

- Please be sure to use only a Rokuhan controller to operate this product.
- Clean track (metal rails) before operation.
- Remove dirt and dust on wheels.
- Do not operate continuously over a long period of time.
- Do not change train direction suddenly. Stop the train first, then change direction.
- In the case of derailment or short circuit, turn off the power at the controller immediately, unplug the controller, and then eliminate the cause of problem.
- Disassembling and modification work could cause failure of this product.
- Storing this product under sunlight or fluorescent light for long periods of time could cause fading of body colors.
- Store and operate this product at dry dust free place, keep away from dust, high temperature, humid places.
- To avoid shock or electrocution, do not operate this product in a wet condition or operate with wet hands.
- This product includes small and sharp edged parts. So, please handle with care.
- Please be careful not to cause injury when using tools.
- This product is not recommended for use by children under 15 years old unless supervised by an adult.
- Please make sure to insert cars in plastic bag to avoid any damage when you pack the cars into blister package in book case box.



#### 2. Parts list

##### Cars T022-12 JNR 103 Sky Blue Low Cab Type 4 Car Basic Set

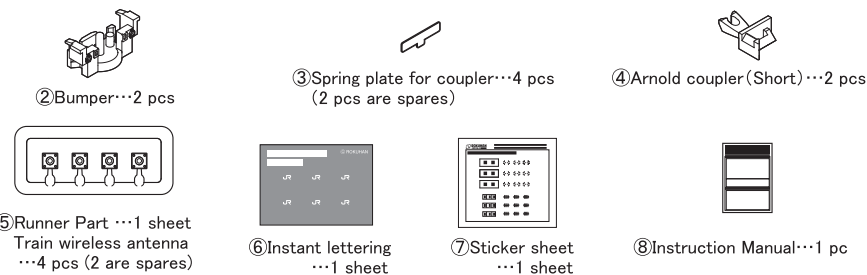


##### T022-13 JNR 103 Canary High Cab Type 4 Car Basic Set



①103 Type Cars... 4 cars Please set up cars based on the above formation.

##### Common Accessories

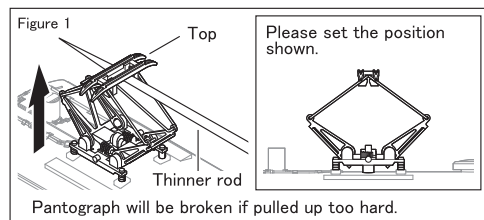


### 3. Caution to handle train

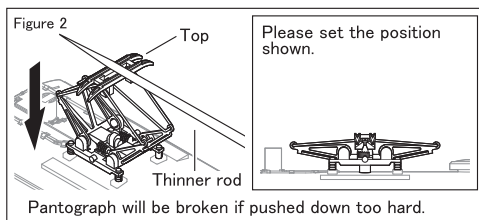
#### 3-1 How to set pantograph height

Applicable model ㊦ハ103

- ①Lift-up top parts softly with tooth pick or thinner rod until stop (See Figure 1).



- ②Push down top parts slowly with tooth pick or thinner rod until stop (See Figure 2).

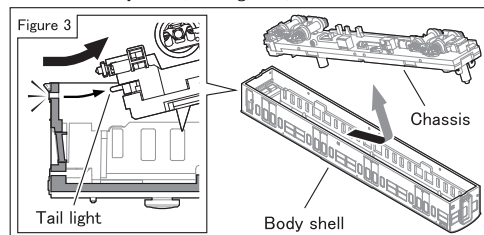


#### 3-2 Replace the couplers

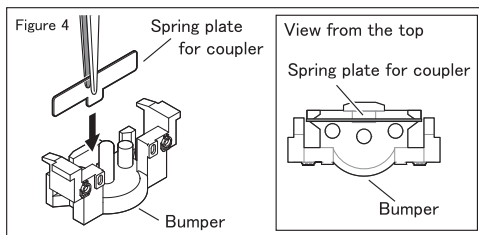
Applicable model ㊦ハ103

Dummy bumper is set as default. Change the bumper as below if you want to connect front car with other car.

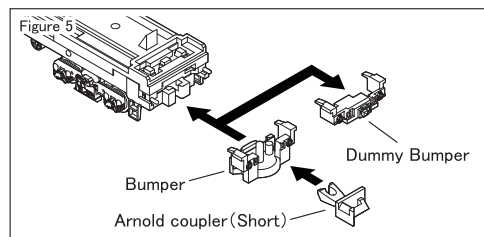
- ①Remove body shell from chassis (See Figure 3).  
Remove chassis gently at an angle to prevent tail light, light pipe being broken. Lift chassis gently just high enough to pull it out of body shell (See Figure 3).



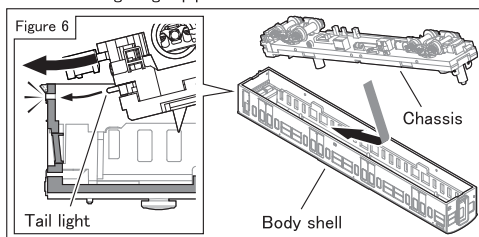
- ②Set spring plate for coupler on bumper by tweezers.  
\* Please pay attention not to lose because the spring plate for coupler is transparent.



- ③Pull out dummy bumper from chassis horizontally, replace bumper, then set on arnold coupler (short) (See Figure 5).



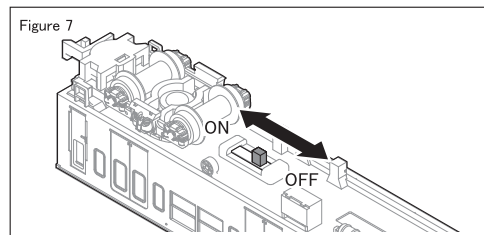
- ④Set chassis in body shell (See Figure 6).  
Replace chassis in the body shell in the reverse way. Insert tail light light pipe first.



#### 3-3 Tail light "On"-"Off"

Applicable model ㊦ハ103

When connecting front cars, switch off the light at the bottom.

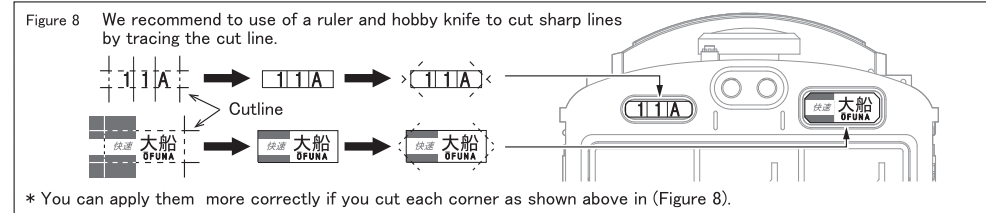


### 4. How to set parts

#### 4-1 How to apply label

Applicable model ㊦ハ103

Select your favorite label, cut it along the line, and apply it by tweezers (See Figure 8).



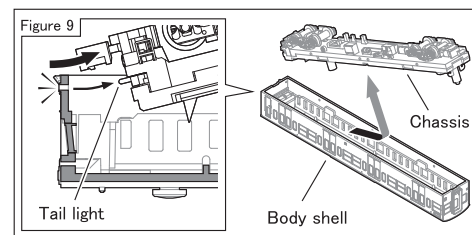
\* You can apply them more correctly if you cut each corner as shown above in (Figure 8).

#### 4-2 How to install wireless antenna (Recommended for advanced modeler)

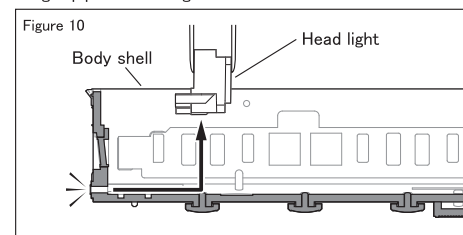
This process is for expert user who understand this model well. Please be careful to handle tools to avoid injury and work carefully. Also, DIA 1.0 mm drill and tweezers are necessary to set small antenna.

This product has no hole in body shell for wireless antenna. If you like to set antenna for your preference, please follow the instruction below.

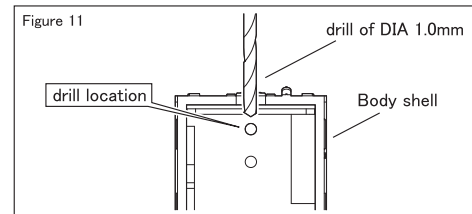
- ①Remove chassis gently at an angle preventing tail light light pipe from being broken. Lift chassis gently just high enough to pull it out of body shell (See Figure 9).



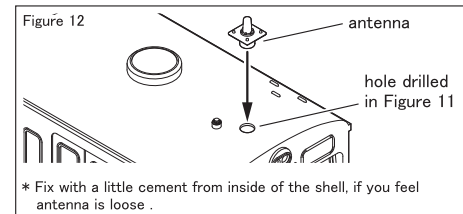
- ②Remove head light on/off switch from the body with tweezers (See Figure 10).  
Remove it gently with at an angle to prevent head light light pipe from being broken.



- ③Remove Chassis and head light being careful not to damage light pipes for tail light and head light (See Figures 9 & 10 above to drill hole in body shell (See Figure 11).)

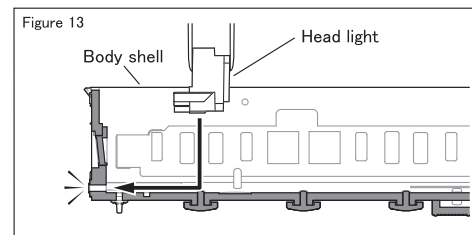


- ④Cut out the antenna from the runner. Put antenna into the hole. If it's loose, put a little cement inside car.



\* Fix with a little cement from inside of the shell, if you feel antenna is loose.

- ⑤Set headlight in the body with tweezers gently to avoid damage to head light light pipe (See Figure 13).



- ⑥Set chassis in body (See Figure 14).  
Replace chassis in the body shell gently at an angle preventing tail light light pipe from being broken (See Figure 14).

