

Thanks for your purchasing Rokuhan products. Please read this instruction manual carefully before use.

Product Features

- This product is a wheel cleaner specially developed for cars to clean surface of wheels, which is one of the causes of poor running of Z gauge (6.5mm) power cars.
- This product can be used for Z gauge and 6.5mm gauge cars regardless of manufacturer.
- The use of a special sponge (hereafter referred to as “energizing cloth”) that has both electrical conductivity and cleaning performance allows for gentle removal of dirt from the wheels and rubber wheels of cars without damaging surface.
 - * Effectiveness will vary depending on the condition of the dirt. When the rubber part of rubberized wheels has deteriorated, please replace the rubber part before use.
- The working length of the energizing cloth is 175mm, so even long cars can be cleaned.

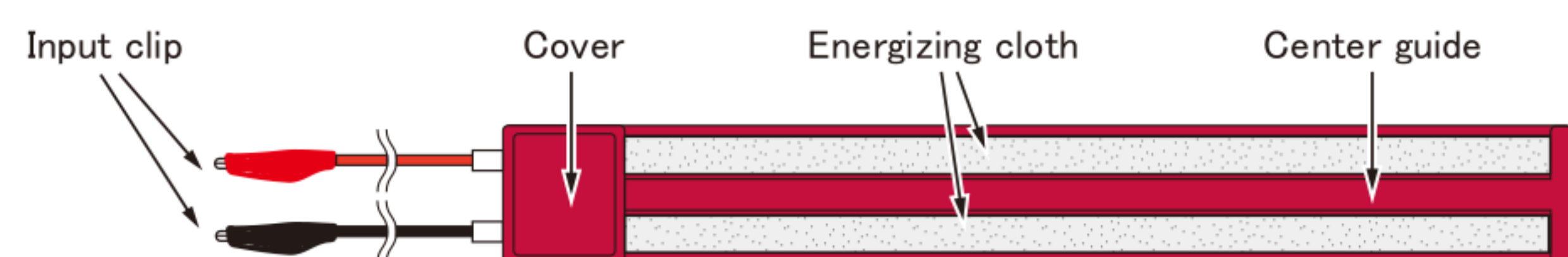
Caution (Please read)

- Age: 15 years old and up (children under 15 years old should be used under the supervision of a parent or guardian).
- This product has sharp edge parts. Please handle with care to avoid injury.
- Do not use this product for any purpose other than wheel cleaning.
- This product is exclusively for Z gauge (6.5mm) rolling stock and cannot be used for N gauge (9mm) rolling stock.
- Turn on the controller and slowly turn the controller knob to spin the train wheels.
- Please read this instruction manual and the instruction manuals that come with the controller, rails and cars carefully before use.
- Z gauge rolling stock is made by delicate parts, and unreasonable handling may cause damage.
- When using this product, always check the condition of the wheels and finish the work after confirming that the dirt has been removed. If the dirt is not removed, please repeat the operation.
- Please be careful to don't make short-circuit the left and right current-carrying cloths with metal or other conductive objects. If a short circuit occurs, the energizing cloth may be damaged, and at the same time, serious trouble may occur in the wheel cleaner itself or in the car. If a short circuit is caused by mistake, stop work and remove the cause immediately.
- When using this product on a metal chassis car, insulate the metal parts that may come in contact with the energized cloth with vinyl tape to prevent a short circuit.
 - * Please be especially careful when using this product on a metal chassis car.
- If you feel any problem with the car or if the safety device on the controller is activated, stop work immediately and remove the cause of the problem.
- Continuous use for a long period of time or application of a voltage higher than the appropriate level during cleaning work will adversely affect the motor of the power train. Also, leaving the car on the energized cloth with the power on may cause breakdown or damage to the car.
- Stop the train movement by gently placing your finger in FRONT of the train. The wheels will continue to spin and deposit wheel dirt on the energizer cloth. Turn off the cleaner machine and Remove the train. The cleaning process is now complete. No cleaning solution is required.
- Cleaning effectiveness will vary depending on various factors such as the condition of dirt on the wheels and lack of maintenance for a long period of time. If you do not see any effect after using this product, please consider other methods.
- If the performance of the current-carrying cloth deteriorates due to dirt, etc., please replace the current-carrying cloth.
- For the replacement part, please purchase the separately sold “90027 Soft-Kun N/Z. Spare Energizing Cloths (1 pair/2 cloths)” (manufactured by Tsugawa Yoko Co., Ltd.).
- For details on replacing the energizing cloth, see 7.

Prepare The following items in addition to this product.

- Rokuhan train controller RC-02/RC-03 or controller for Z gauge (with safety device)
- Feeder cables (products that can be attached to the controller)
- Rail (product to which feeder cable can be attached)

Part Names of Wheel Cleaner



How to Use Wheel Cleaner

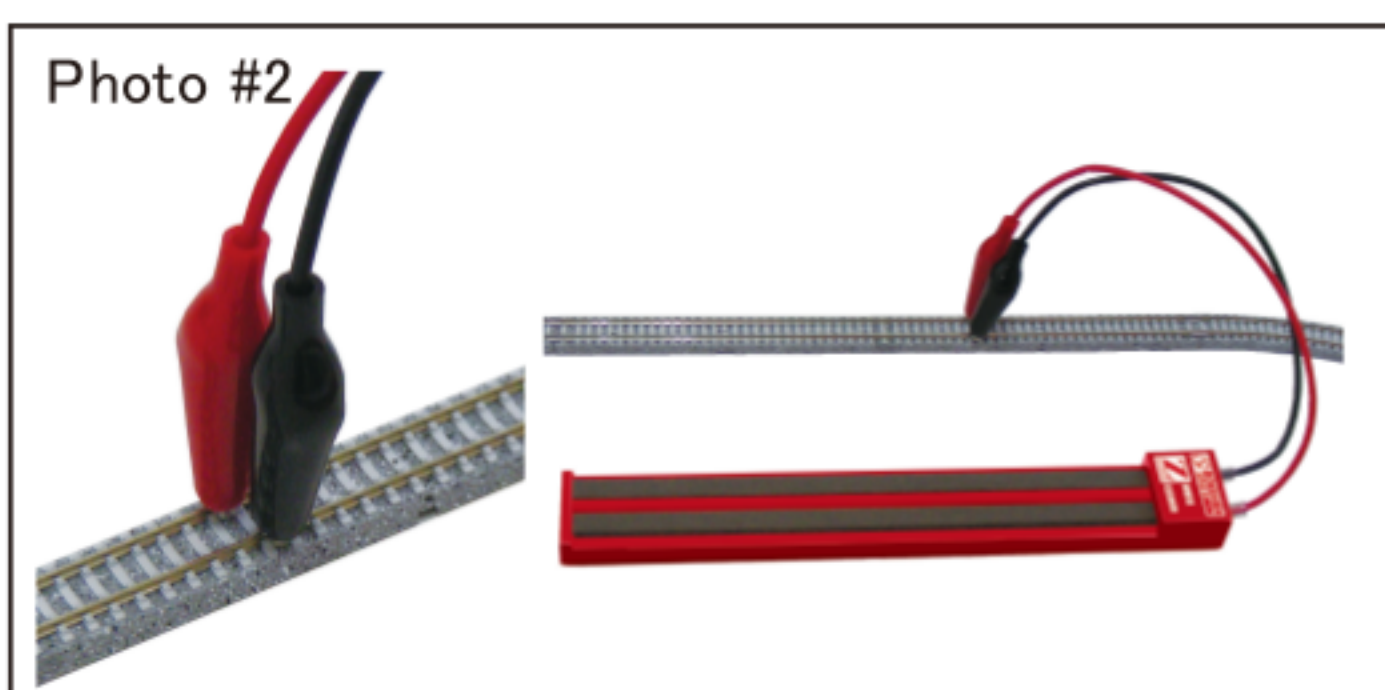
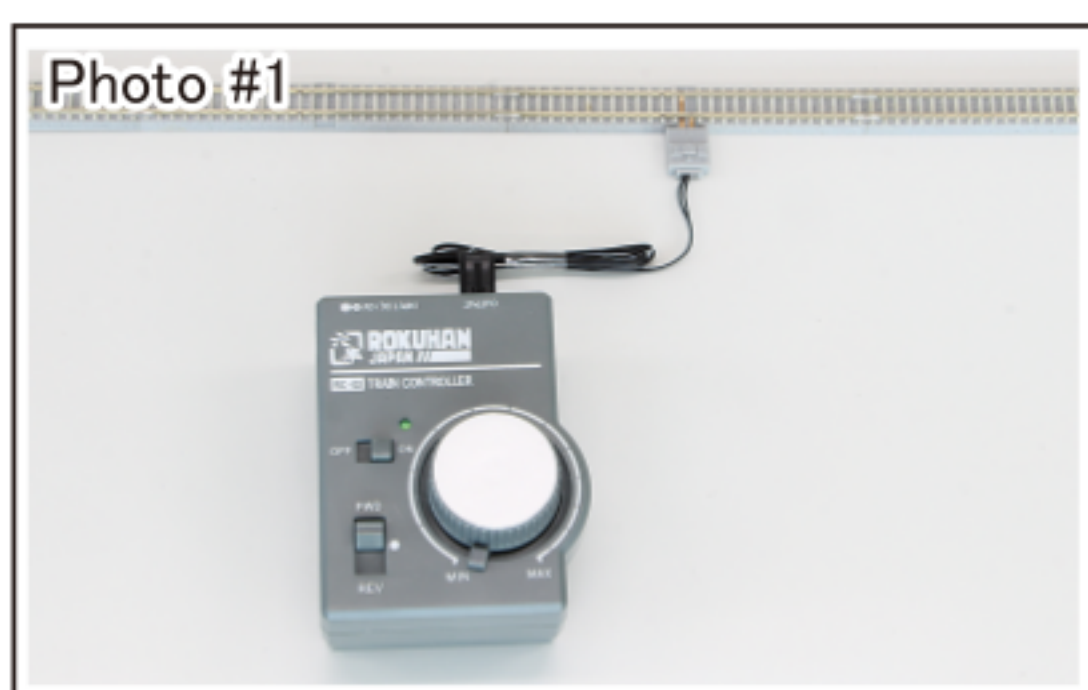
First

The energizing cloth used in the wheel cleaner is a new material made of sponge processed with a special fiber that has both electrically conductive and cleaning properties. When a car is placed on the cloth and energized, the wheels collect electricity from the surface of the cloth and the motor moves. By spinning the wheels on the energized cloth, the cleaning effect of the energized cloth gently removes dirt from the wheels.

Enjoy stable running with clean wheels.

Preparation

1. Attach the feeder cable to the controller with the power switch OFF, then connect the rails to the feeder cable. * Photo #1.
 - * Before starting to use the wheel cleaner, please follow the instruction manual for the wheel cleaner and the instruction manual for each product.
2. Set the input clips on either side of the rail. * Photo #2
 - * Wheel cleaners should be placed close to the controller as work is performed while moving the controller.



Operation

3. Referring to Figure 1, align the center guide with the inside of the wheel and place the car so that the wheel treads touch the left and right energizing cloths. The flange of the wheel should be placed in the gap between the center guide and the energizing cloth.
 - * Be careful not to allow any metal other than wheels to come in contact with the energizing cloth.
 - If other metal objects come in contact with the cloth, insulate them with vinyl tape to prevent short-circuiting between the left and right current-carrying cloths. Metal vehicles should be carefully insulated.
4. For trailer cars, carefully move the car forward and backward with your fingers in this state. (Be careful not to press down too hard.) *Photo 3
 - * For powered cars, refer to 5. below.

Figure 1

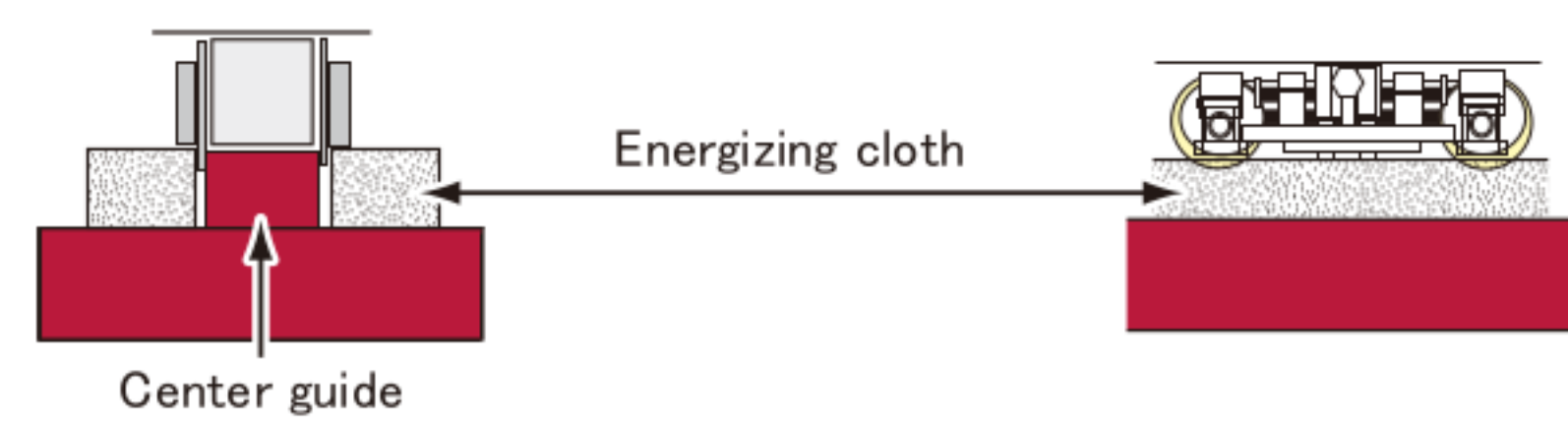
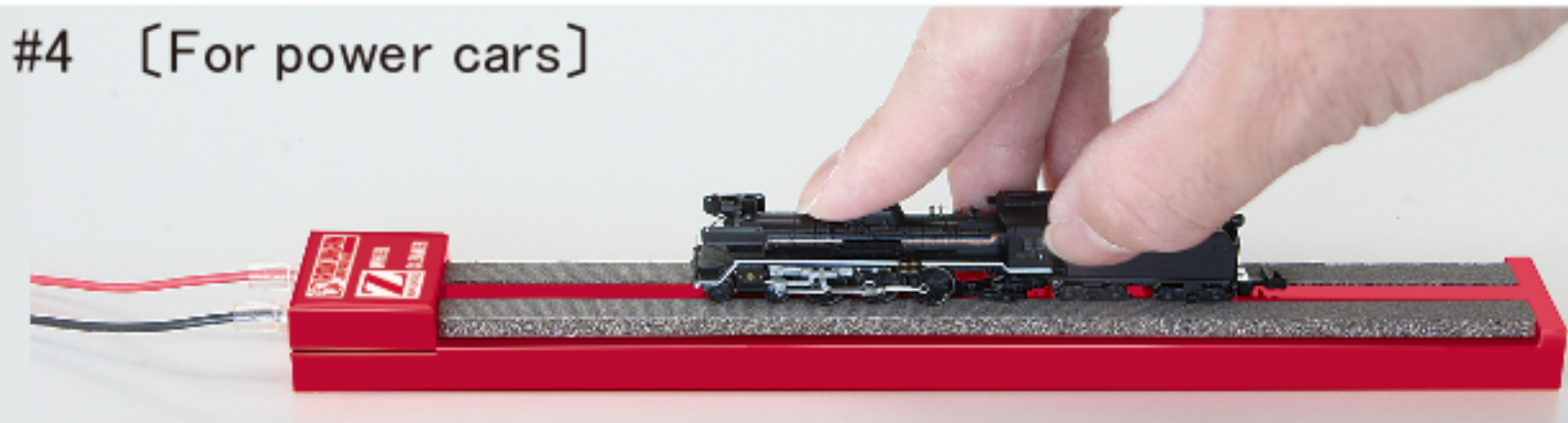


Photo #3 [For Trailer Cars]



5. Turn on the controller and slowly turn the speed control dial to increase the voltage, and the car will start moving on the energized cloth. When the car starts to move, stop the vehicle with your finger and allow it to idle while touching the wheel treads to the energizing cloth to remove dirt from the wheels due to the cleaning effect of the energizing cloth. *Photo #4

Photo #4 [For power cars]



Typically, the wheels should be checked after about 15 seconds. If the dirt is not removed, repeat the operation.

- * Continuous use for a long time will damage the power wheel motor.
 - * Do not leave the car on the wheel cleaner while energized.
 - * It is not necessary to apply cleaner solution to the energized cloth. Please note that applying the product may cause problems with the product.
6. It is effective to perform maintenance on the wheels before and after each run. It is recommended to clean the rails at the same time.

Cleaning effectiveness will vary depending on various conditions, such as the state of dirt and lack of maintenance for a long period of time. If you do not see any effect after using this product, please consider other methods.

 - * Degradation of the energizing and cleaning performance of the energizing cloth due to dirt adhesion does not mean that the product is defective.

7. Replacement of energizing cloth

- Wheel stains are caused by “spark stains,” which are transformations of dust, oil, and other substances caused by slight sparks between the wheel and the rail. This stain accumulates over time and becomes difficult to remove if left unattended. This stain expands over time and becomes more difficult to remove.
- The wheel cleaner removes the dirt from the wheel by making it adhere to the energized cloth through the cleaning effect of the energized cloth, but the energized cloth's energizing and cleaning performance deteriorates due to the dirt removed. The energizing cloth should be replaced when its performance deteriorates. The cleaning time of the energizing cloth will vary depending on the condition of the wheel dirt and past maintenance.
- Especially when the wheels are used for the first time or if the wheels are heavily soiled, the energizing cloth may need to be replaced after one or two uses.
- Please refer to the following to determine when to replace the energizing cloth.

【How to check for dirt】

A light gray line of dirt will appear where the wheel comes in contact with the energizing cloth when the wheel cleaner is used. When a line of stain is observed on the entire energizing cloth, it should be replaced.

The dirt lines may be difficult to see. See Figure 2.

【Phenomena that can be confirmed】

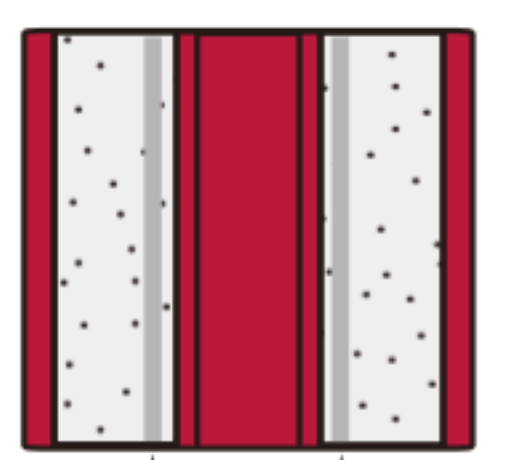
If a car is placed on an area of the energizing cloth that is covered with dirt (see Figure 2.), the wheels will not move due to the reduced power collection performance caused by the dirt. Place the wheel in an area where there are no dirt lines and clean it, or replace the energizing cloth if there are dirt lines all over the energizing cloth.

【Tip】

For soiled energizing cloth, remove each part and carefully peel off the energizing cloth. The cloth can be reused by replacing the left and right sides of the cloth, with the clean outside side facing the inside.

Reattach the weakly adhesive energizing cloth with double-sided tape. Finally, attach each part and return it to its original position. Depending on the condition of the dirt, it may not be possible to reuse the energizing cloth even if it is replaced.

Figure 2



Dirt lines (image)

Trouble and repair

- Any trouble, accident, or injury caused by misuse, disassembling and modification of this product are not responsibility of Rokuhan. And Rokuhan does NOT accept repair requests of any products which have been disassembling or modified by user.
- Product specification and appearance are subject to change without prior notice.
- Available only as completed product.
- Contact Rokuhan customer service if you have any questions about this product.