

Thank you for purchasing this Rokuhan product. Please read this instruction manual carefully before use.

CAUTION

- Turn off the power if train derails.
- Turn off the power and disconnect AC adapter or remove batteries if you see smoke or feel heat coming from this unit or trains.
- Turn off the power and disconnect AC adapter or remove batteries when not in use.
- With a Circuit breaker which resets automatically for safety.
- Do not connect any products not recommended by Rokuhan to avoid any problems.
- Do not use A010 AC cable to feed power.
- Do not mix old batteries with new batteries or different brands or types of batteries together.
- Disassembling and modification could cause failure of this device.
- Handle the cord with care to avoid disconnection or short circuit.

- To avoid short circuit, do not put any metallic product across the rails.
- This product includes sharp parts. Handle with care.
- Choking hazard. Keep out of reach of small children under 3 years old.
- Do not use this product in a wet location to avoid shock or electrocution.
- Store in dry dust free location to avoid failure of your unit.
- This product is not recommended for use by children under 8 years old unless supervised by an adult.

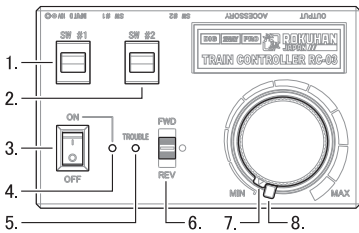
Rated power Output current for each connector (The maximum rate for single use)
INPUT : AC 100V 50/60Hz 16VA
OUTPUT : DC 10V 900mA

Caution
 Do not use at more than rated power to avoid overheating.

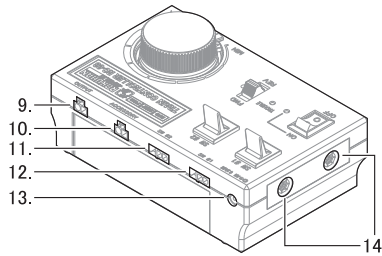
1. Parts list

- Train controller RC-03 1 pc

Names of parts

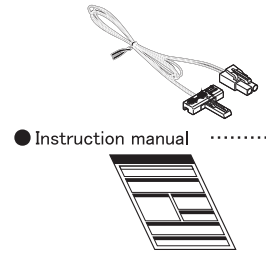


1. Turnout switch #1
2. Turnout switch #2
3. Main power switch
4. Main power lamp (Green)
5. Trouble lamp (Red)
6. Direction switch
7. Speed control dial
8. Adjust ring



9. Socket for track feeder cable (Black)
10. Socket for accessory (White)
11. Socket for turnout #2 (Transparent)
12. Socket for turnout #1 (Transparent)
13. Socket for AC adapter
14. Side sockets for C002 Turnout switch etc.

- Narrow feeder cable 1 pc



- Instruction manual 1 pc

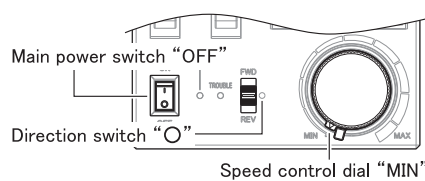
2. Set controller

2-1. Precaution for wiring

Before wiring, set the controller as following picture.
 * Set it as well when not in use.

Caution

* Trains may run right after wiring if the switches are not set as shown in the picture.



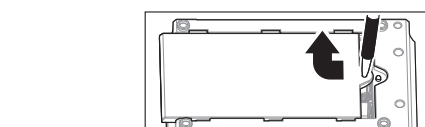
Speed control dial "MIN"

2-2. Power for controller

Power is supplied by either batteries or AC adapter. (* AC adapter and batteries are sold separately)

How to install batteries

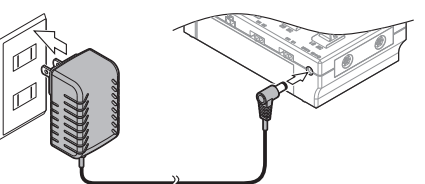
1. Slide the bottom cover pushing the small hole on the cover with a thin stick.
2. Set 8 pcs of AA batteries with correct direction. Close the cover tightly until you hear snap.



- * Alkaline batteries are recommended.
- * Do not mix old batteries with new batteries or different brands or types of batteries together.

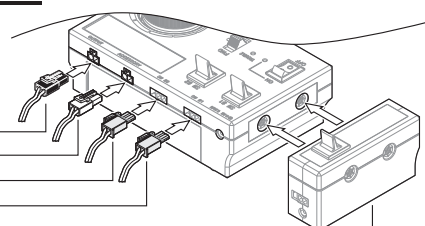
How to use AC adapter (Sold separately)

1. Connect AC adapter to controller.
2. Plug in AC adapter. If batteries are set in controller, controller automatically chooses AC adapter as power source.



2-3. Connect cables and other devices to controller

Connect cables and other devices correctly before use. The colors of cables and sockets are color coordinated.



- Connector for feeder cable (Black) to OUTPUT
- Connector for accessory (White) to ACCESSORY
- Connector for turnout (Transparent) to SW#2
- Connector for turnout (Transparent) to SW#1

Caution

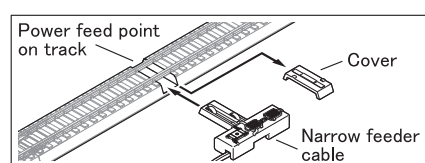
* Do not connect track feeder cable (Black) to the socket for accessory (White). Trains become uncontrollable.

C002 Turnout switch, C003 Reverse switch (All sold separately) etc. to side sockets

2-4. Feed power

1. Remove the cover from power feed point on track.
2. Place track on a flat surface. Insert the other end of the feeder cable into the slot on the track.

* 55mm, 110mm, and 220mm straight track have power feed points.



3. Preparation for operation

3-1. Turn on the main power

1. Set the speed control dial to "MIN"
2. Set a train on track.
3. Check cables are wired correctly and turn on the main power switch.
4. Check the main power lamp is lit.

3-2. Direction switch

Set the direction switch "FWD" to run trains forward and "REV" for reverse. Trains will not run if the direction switch is set to "O".
 * Set speed control dial "MIN" before moving the direction switch.

3-3. Speed control dial

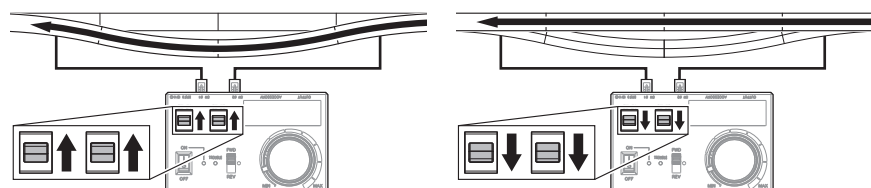
Turn speed control dial to right to increase speed. Turn speed control dial to left to slow down. Set "MIN" to stop.

3-4 Safety device

- Circuit breaker automatically trips power and the trouble lamp is lit when a short circuit or overload condition is detected. When the trouble lamp is lit, set the direction switch "O", and speed control dial "MIN". Eliminate the cause of problem and turn on the main switch again. (Only for track power)
- Also another circuit breaker for side sockets output will reset automatically for safety.
- * Eliminate the cause of the trouble to resume.

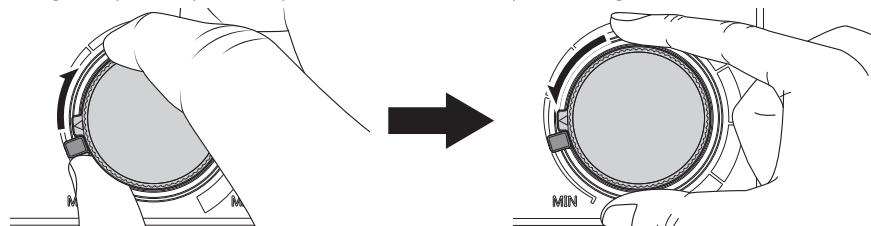
3-5. Turnout switch

1. After switching turnout, wait one second to switch again to avoid failure. Switch few times if turnout is not changing direction.
2. Make sure turnout is switched correctly. Also check the direction of the lever and trains.



4. Preparation for operating trains with constant lighting system

1. After "3-1. Turn on the main power" and "3-2. Direction switch", set the direction switch to the direction you would like to run a train ahead.
2. Turn the speed control dial and adjust ring*1 together and run the train. Turn the speed control dial to left gradually and stop it at the position where the train stops and the light are still on.



*1 Adjust ring is to adjust the speed control dial to keep lighting on for trains when the trains are stopped. Set the direction switch "O" or main power switch "OFF" to turn off the lighting. * PAT.P

5. Trouble shooting

Check followings before ordering repair.

Problem	Cause	Correction
Trains do not run.	The circuit breaker has tripped in the controller.	Turn off the main power switch, set direction switch "O" and speed control dial "MIN". Then eliminate the cause of trouble and turn on the main power again.
	Direction switch is "O".	Set the direction switch "FWD" or "REV".
	The main power switch is "OFF".	Turn the main power switch on.
	Narrow feeder cable is not connected to power feed point and the socket for feeder cable.	Turn off the main power switch, set direction switch "O" and speed control dial "MIN". Then connect the narrow feeder cable to power feed point and the socket for feeder cable.
	A train derails.	Set the train properly on track using rerailer.

Problem	Cause	Correction
Trains do not run (Battery use)	Batteries are not installed.	Install batteries. (Alkaline batteries are recommended.)
	The orientation of the batteries is incorrect.	Install batteries correctly.
	Batteries are dead.	Replace batteries with new batteries.
Trains do not run (AC adapter use)	AC adapter is not plugged in or not connected to the socket for AC adapter.	Turn off the main power switch, set direction switch "O" and speed control dial "MIN". Then plug in AC adapter and connect to the socket again.
A train does not run smoothly, and lights flicker.	The wheels of the train or the track are dirty.	Remove the dirt on the wheels and track with a clean cloth and rail cleaner.

6. Trouble and repair

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