

Puchi-Maru Instruction Manual

Thank you for purchasing the Yokomo Puchi-Maru.

Before operating this product, please read the instructions thoroughly and retain this manual for future reference.

Product Contents



Puchi-Maru

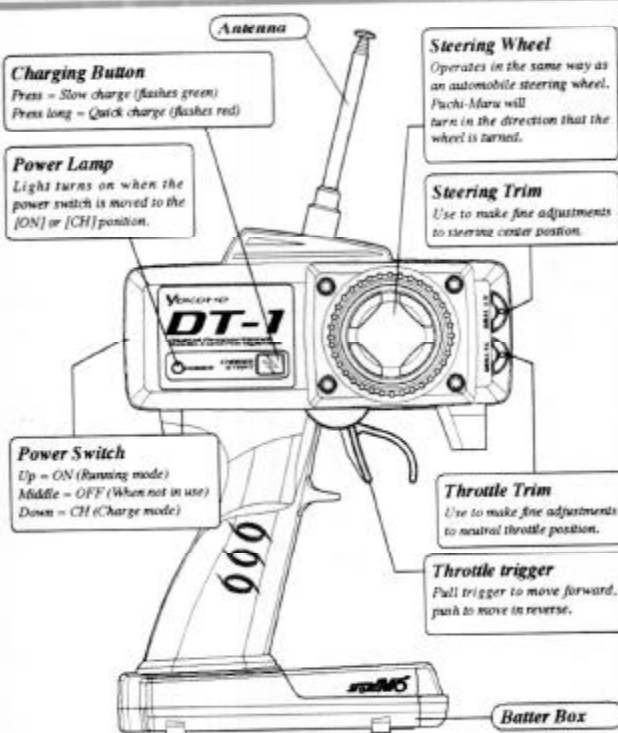


Charging Cord



DT-1 Transmitter

DT-1 Instructions



STEP 1 Preparations Before Operating

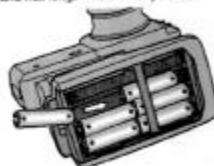
1 Antenna installation

Insert the antenna and screw in clockwise until it stops.



2 Battery installation

Remove the bottom cover from the DT-1 by sliding it out. Carefully place the AA-size batteries into the battery slots. Make sure that the positive (+) and negative (-) terminals on the battery match the placement markings in the battery slots.



Once the batteries have been correctly placed into the battery slots, slide the bottom cover onto the radio.

STEP 2 Charging

1 Connecting the charging cord

Connect the charging cord to the charging jack on the DT-1 transmitter and the charging jack on the Puchi-Maru.



3 Start charging

Two charging methods are available: slow-charge and quick-charge.



Slow-charge

[Charge time: approx. 8 minutes]

Press the [CHARGE] button to initiate the slow-charge. The [CHARGE] button will flash green. This method allows the battery to charge fully at a safe level.

Quick-charge

[Charge time: approx. 1 minute 30 seconds]

Press and hold down the [CHARGE] button until the green flashing light turns red. A flashing red button indicates a quick-charge. Although quicker and more convenient, the quick-charge method places a greater strain on the batteries and may result in shorter battery life.

2 Changing the power switch

Move the DT-1 power switch to [CH] charging mode.

[POWER] lamp illuminates red.

[CHARGE] button illuminates green.

You are now prepared to charge.



4 Charging complete

When the [CHARGE] button light stops flashing and turns green, charging is complete. Turn the DT-1 power switch to the [OFF] position and remove the charging cord from the transmitter and Puchi-Maru.

STEP 3 Running Procedure

1 Extend the antenna fully.



4 Running the car

Average running time on a full charge is 5 minutes.

2 Turn on the DT-1 power switch

Move the DT-1 power switch to the [ON] running-mode position.

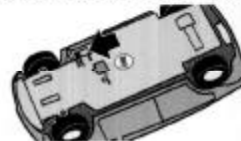
[POWER] lamp illuminates red.



5 Running complete

Turn the Puchi-Maru switch off

Move the switch to the [OFF] position.



6 Turn the DT-1 power switch off.

Move the DT-1 power switch to the [OFF] position. Make sure that the [POWER] is not illuminated.



3 Turn on the Puchi-Maru switch.

Move the switch to the [ON] position.



Helpful Tips

Breaking-in the gears when new

When new, the gear mesh (spacing between gears) is set tight and may make it hard for the motor to turn. If so, it is the case, running the car without any load (not letting the wheels touch the ground) will help break in the gears and will allow for better gear mesh.

Running surface suitable for the Puchi-Maru

Tables, desktops, hard flooring, rubber mats (harder mats are better).

Running surfaces not suitable for the Puchi-Maru

Carpet, asphalt, dirt, dusty surfaces, hairy surfaces.

I want longer run-times

The Puchi-Maru uses Nickel Metal Hydride batteries. As these batteries are charge over and over again, they maintain a memory which prevents them from charging to their full potential. Allowing the battery to fully discharge (running the car until the battery is so low that the wheels will not turn) will help reset this memory effect.

Try charging the battery in slow-charge mode, followed by a charge in quick-charge mode. The built-in charger uses a micro-processor controlled delta peak detection system that prevents overcharging of the battery.

I want to increase the car's speed in reverse

Try adjusting the (TH-TRIM) slightly downwards.

Cleaning the tires

Due to their extremely small size, even the slightest piece of dirt on the Puchi-Maru's tires may hinder its running performance. Use a piece of Scotch tape (the adhesive side) to periodically clean the tires.

Cleaning the front and rear axle shafts

Dirt or dust build-up on the front axle areas will greatly affect cornering performance. Dirt or dust build-up on the rear axle will affect acceleration, slowing down the car. Use an air duster or soap to remove any build-up.

Precaution

Safety Precautions

Read this Owner's Manual carefully and operate according to the instructions.

It is recommended that children (2 years or younger) be accompanied by a parent when operating.

Please make sure that the transmitter antenna is pointed away from people when operating.

This product is not designed to be taken apart for modification purposes, or any other purpose not mentioned in the manual instructions.

Subjecting this product to crashes or hard vibrations may cause irreparable damage, rendering it inoperable.

Keep this product away from water and moisture. Subjecting the internal electronics to moisture may cause irreparable damage, rendering it inoperable.

Do not store in a location with high humidity or moisture.

If smoke or burning smell is emitted while running, stop operating immediately.

If you feel that the product is not operating correctly, please contact our customer service department.

Please store this manual in a safe place for future reference.

Other Precautions

The Puchi-Maru is designed to be operated indoors. Due to dirt and debris found outdoors, operating this product outdoors may cause damage.

Please do not run the car on carpet. Small carpet fibers may get caught inside the moving parts, causing damage.

Only use the DT-1 to charge the Puchi-Maru. Do not use any other charger.

Please do not press hard when moving down on the (CHARGE/START) button.

Make sure the running area is safe before operating this product.

When running multiple cars at the same time, make sure that the other cars running are on different frequencies.

Do not forcefully try to stop the wheels from spinning while power is applied to the wheels. This may cause damage.

Repeatedly charging the battery during a short period of time will shorten the life of the battery. Allow the battery to rest for about 5-10 minutes between charges.

After running, always remember to switch off both the DT-1 and Puchi-Maru. Leaving the switches on will drain the batteries.

Do not pull or bend the Puchi-Maru's antenna.

Do not hold or lift up the Puchi-Maru by the antenna.

Troubleshooting Q&A

Please use the following Q&A when troubleshooting a problem. If you are still not able to determine the problem, please contact our customer service department.

Q The [POWER] lamp does not light up when switched on.

Are the batteries installed? Are they installed correctly? Open the battery box and check to see that the batteries are installed correctly.

Are the batteries old? Try replacing the batteries with new ones.

If the [POWER] lamp begins to flash, please replace the batteries.

Q Cannot charge the battery. Only charges for about 10 seconds.

Is the power switch on the DT-1 in the [ON] (upper) position?

Is the switch on the Puchi-Maru in the [OFF] position?

Is the charging cord correctly connected? Make sure that the connector is fully inserted.

Are the batteries in the DT-1 old? Replace the batteries with new ones.

Puchi-Maru battery life? Contact customer service for repair.

Q Does not move at all.

Is the DT-1 power switch in the [ON] (upper) position?

Is the Puchi-Maru more than 6 meters (20 feet) away? Try operating the Puchi-Maru at a closer distance.

Puchi-Maru battery or motor life? Contact customer service for repair.

Q Does not operate correctly.

Are the [ST, TRIM] and [TH-TRIM] settings adjusted? Please try adjusting the settings.

Is the DT-1 antenna fully extended?

There may be a possibility of radio interference. Try moving to a different location.

Are you running with other cars? Check to see if someone else is on your frequency.

Dirt or debris may be built up on the moving parts. See the tips on [Cleaning] under the Helpful Tips section.

Is the Puchi-Maru fully charged?

*When the Puchi-Maru's battery level becomes low, steering control will go away before throttle control.

Q Run-time is short

See the [I want longer run-times] section under Helpful Tips.

Q Tires are turned and will not return to center

There is a possibility that dirt or debris may be caught. Try moving the DT-1 steering wheel left and right several times to see if the dirt or debris can be removed.

Does the Puchi-Maru have enough battery power? Try recharging the battery.

Is the [ST, TRIM] adjusted correctly? Try re-adjusting the setting.

Q Sounds emitted while running

A buzzing sound emitted while running is normal.

"Modifications not authorized by the manufacturer may void users authority to operate this device"

NOTE:

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.