

No. 2379
OWNER'S MANUAL

Please read before using this equipment.

THUNDER EXPRESS

KA WAH MANUFATORY LTD.
FCC ID: F5J88927
EXHIBIT #: 5A

 DIGITCON®

INTRODUCTION

Your DIGITCON Radio-Controlled Thunder Express is a high-speed, radio-controlled vehicle. Its powerful RS-380S motor is powered by a rechargeable battery pack (not included) that saves you money while providing exciting power and speed. If you purchase at least one extra battery pack, you can charge one while you continue racing with the other.

The Thunder Express has these features to assure smooth operation and long life:

Digital Proportional Speed and Steering Controls — let you guide the vehicle almost anywhere.

Trailing Arm Suspension — lets the vehicle quickly adjust to uneven road surfaces and stick to the course.

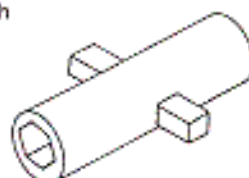
Friction Damped Shock Absorbers — give all four wheels positive traction, even on rough terrain.

Rear Differential Axle — transmits the necessary amount of power to each rear wheel.

Warning: This vehicle can reach much higher speeds than most other radio-controlled cars. Be careful when you use the vehicle to avoid high-impact collisions with people and objects.

The box wrench supplied with your vehicle (shown below) lets you remove and replace many of its parts. Be careful not to discard the box wrench when you unpack the vehicle.

Box Wrench



Note: To power your Thunder Express you need one 9V battery, a rechargeable 7.2V Ni-Cd battery pack, and a battery charger, all sold separately.

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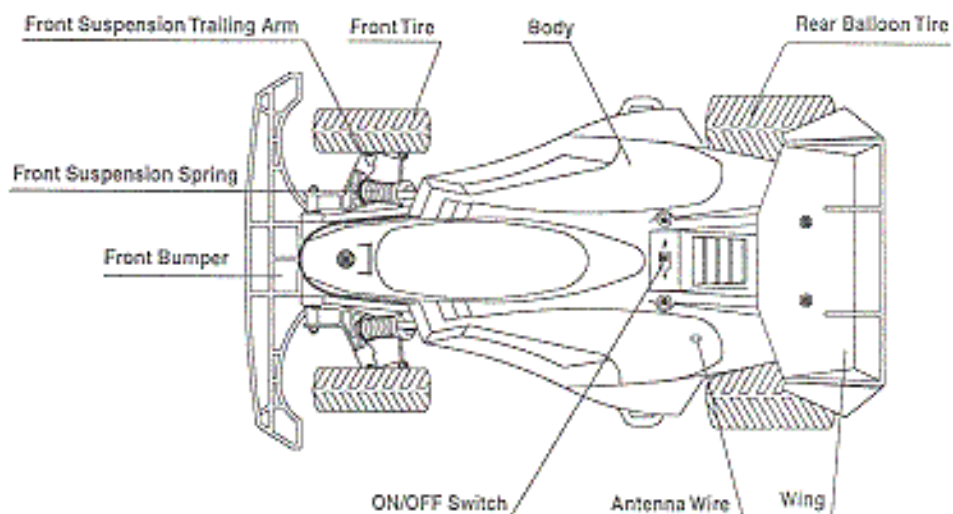
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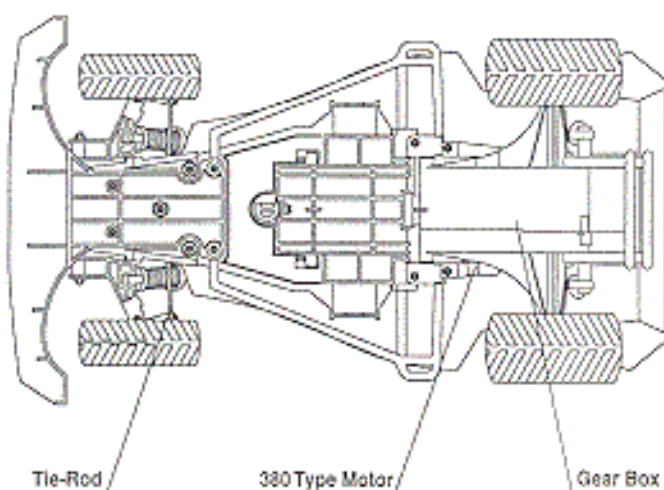
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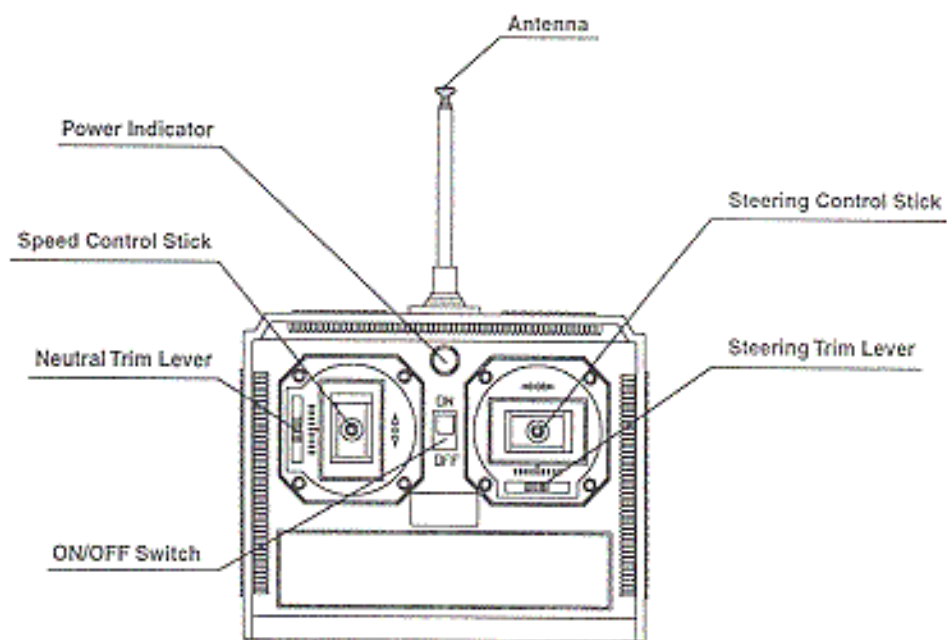
A QUICK LOOK AT YOUR VEHICLE

TOP VIEW



BOTTOM VIEW



TRANSMITTER

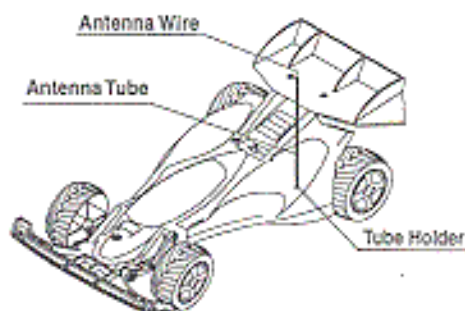
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PREPARATION

INSTALLING THE VEHICLE'S ANTENNA TUBE

The Thunder Express's receiver accepts signals from the transmitter to control the vehicle's speed and direction. Those signals are received through the antenna wire, so it is important to set up the wire properly.

The supplied plastic antenna tube holds the antenna wire up for the best reception and range. Route the antenna wire's loose end through the tube. Then insert the tube securely into the vehicle's tube holder.



INSTALLING BATTERIES

Cautions:

- Use only fresh batteries of the required size and type.
- Never leave dead or weak batteries in the transmitter or the vehicle.
- If you will not be using the vehicle for a week or more, remove the batteries from both the transmitter and the vehicle.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- Dispose of batteries properly. Do not bury or burn them.

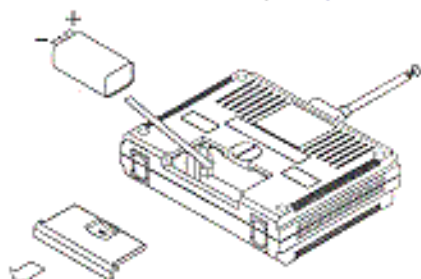
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In the Transmitter

The Thunder Express's transmitter requires one 9V battery for power.



1. Set **ON/OFF** on the transmitter to **OFF**.
2. Use a coin to turn the battery compartment cover's latch counterclockwise and slide off the battery compartment cover in the direction of the arrow.
3. Install one 9V battery in the compartment according to the polarity symbols (+ and -) marked inside.
4. Replace the cover and turn the latch clockwise to secure the cover.

When the transmitter's range decreases, replace the 9V battery. If it still does not operate properly, recharge the 7.2V Ni-Cd battery pack in the vehicle.

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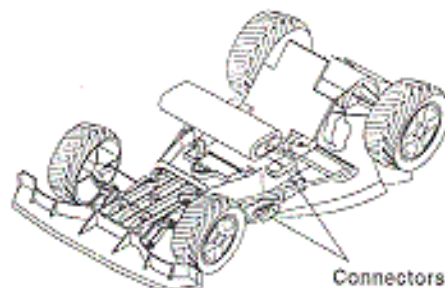
In the Vehicle

You need a 7.2-volt rechargeable battery pack to power the vehicle. Before you use the battery pack, you must charge it using a 7.2V battery-pack charger.

Once you have fully charged the battery pack (according to the battery charger's supplied instructions), follow these steps to install the battery pack in the Thunder Express.

Cautions:

- Use only the recommended battery pack and charger.
- When you disconnect the battery pack from the charger, do not pull on the connector's wires. Otherwise, you might damage the battery pack.
- Do not charge (or recharge) the battery pack while it is in the vehicle.
- After you charge or recharge the battery pack (12 - 14 hours), disconnect it from the charger. Overcharging the battery pack could damage it.



1. Set **ON/OFF** on the vehicle to **OFF**.
 2. Use a coin or screwdriver, turn the battery compartment latch (on the bottom of the vehicle) counterclockwise until it stops, then slide the cover away from the latch and lift it up to remove it.
 3. Place the battery pack in the recessed area near the rear wheels with the battery pack's connector on the same side as the vehicle's matching connector.
 4. Attach the battery pack's connector to the vehicle's matching connector. Do not force them! They fit together only one way.
- Caution:** Be sure the wires do not touch the rear wheel or any other moving parts.
5. Replace the cover and turn the latch clockwise to secure the cover.

When the vehicle loses power, recharge the battery pack according to the battery charger's supplied instructions.

Caution: Do not recharge a battery pack immediately after use (while it is still hot). Allow it to cool first.

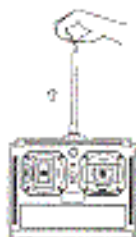
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OPERATION

Warning: Do not drive your vehicle in the street.

Cautions:

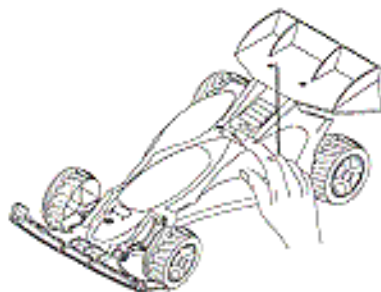
- Do not drive the Thunder Express through puddles or in the rain, sand, or snow. Doing so can damage the Thunder Express.
 - To avoid crashes, always watch where the vehicle is going.
 - To extend the vehicle's life, rest the vehicle for 20 minutes after every 15 minutes of continuous use.
1. Extend the transmitter's antenna to its full length. For maximum range, hold the transmitter with the antenna as high as possible and pointing straight up.



2. Set **ON/OFF** on the transmitter to **ON**.

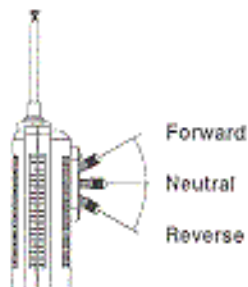


3. Set **ON/OFF** on the vehicle to **ON**.



4. Drive the Thunder Express using the transmitter's speed and steering controls.

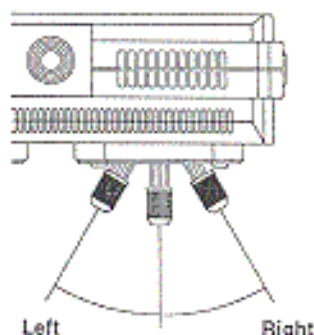
Push the speed control away from you to make the vehicle go forward. Pull the control toward you to make the vehicle go in reverse. The farther you push or pull the control, the faster the vehicle goes.



Caution: Always set **ON/OFF** on transmitter to **ON** first, then set **ON/OFF** on the vehicle to **ON**.

Move the steering control left to make the vehicle turn left, or right to make the vehicle turn right. The farther you push the control, the tighter the vehicle turns. Release the control to make the vehicle go straight.

(Top View)



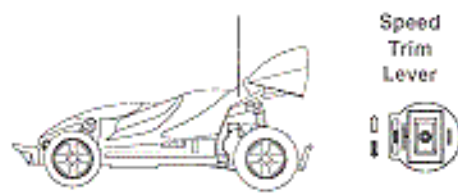
Caution: If the vehicle gets stuck under an object, immediately set **ON/OFF** on the transmitter to **OFF**, then retrieve the vehicle.

5. When you finish, set **ON/OFF** on vehicle and the transmitter to **OFF**.

Caution: Always set **ON/OFF** on vehicle to **OFF** first, then set **ON/OFF** on the transmitter to **OFF**.

USING THE TRIM LEVERS

Adjusting Speed Trim



Adjust the speed trim lever (next to the speed control) so the vehicle stops completely when you release the speed control stick. To adjust the speed trim.

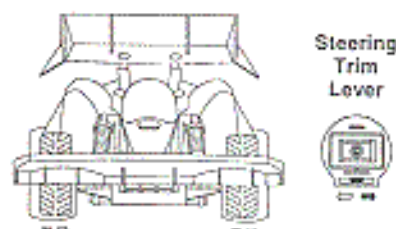
1. Place the vehicle on a box or a wooden block so its tires do not touch the ground. Do not touch the tires during this adjustment.
2. Set **ON/OFF** on the transmitter and vehicle to **ON**.
3. If the rear tires begin to move, slide the speed trim lever forward or back until the tires stop.

Caution: Never use the speed trim lever to make the vehicle go. It is for adjustment only.

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Adjusting Steering Trim

If the Thunder Express does not go in a straight line, you can fine tune the wheel alignment by adjusting the steering trim.



The steering trim lever (next to the steering control) lets you adjust the steering so the vehicle goes perfectly straight when you release the steering control stick. To adjust the steering trim.

1. Place the vehicle on a box or a wooden block so the tires do not touch the ground. Do not touch the tires during this adjustment.
2. Set **ON/OFF** on the transmitter and vehicle to **ON**.
3. If the front tires angle left or right, slide the steering trim lever to the right or left until the wheels point directly forward.

Note: You might need to readjust the steering trim after you use the vehicle a few times.

RACING TWO OR MORE CARS TOGETHER

Your radio-controlled vehicle and others use specific frequencies to operate. Cars with different frequencies can race together. Cars with the same frequency cannot.

The following chart shows the frequencies available for this vehicle. If you buy more than one vehicle and you plan to race them, be sure the sticker (showing the band number) on each vehicle is a different color to ensure that they use different frequencies.

Band Number/ Sticker Color	Transmitter Frequency (MHz)	Vehicle Frequency (MHz)
1/Brown	26.995	26.540
3/Orange	27.095	26.640
4/Yellow	27.145	26.690

CARE AND MAINTENANCE

To enjoy your DIGITCON Radio-Controlled Thunder Express for a long time :

- If the vehicle moves slowly and you have installed fresh batteries, check the wheel mechanisms for lint, thread, hair, or dust.
- Do not store the vehicle or the transmitter in direct sunlight or near a heater.
- Do not leave the vehicle or transmitter outside overnight. Night dampness can damage them.

THE FCC WANTS YOU TO KNOW

Your vehicle and transmitter might cause TV or radio interference even when they are operating properly. To determine if the vehicle or transmitter is causing the interference, turn them off. If the interference goes away, the vehicle or transmitter is causing it. Try to eliminate the interference by:

- Moving the vehicle and transmitter away from the TV or radio.

If you cannot eliminate the interference, the FCC requires that you stop using the vehicle and transmitter.

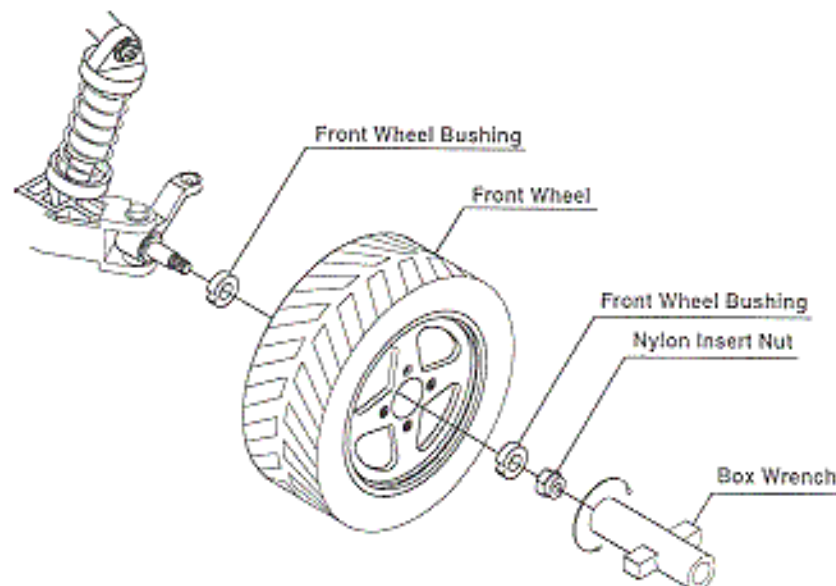
PROBLEM SOLVING

If your vehicle does not operate properly, check the following:

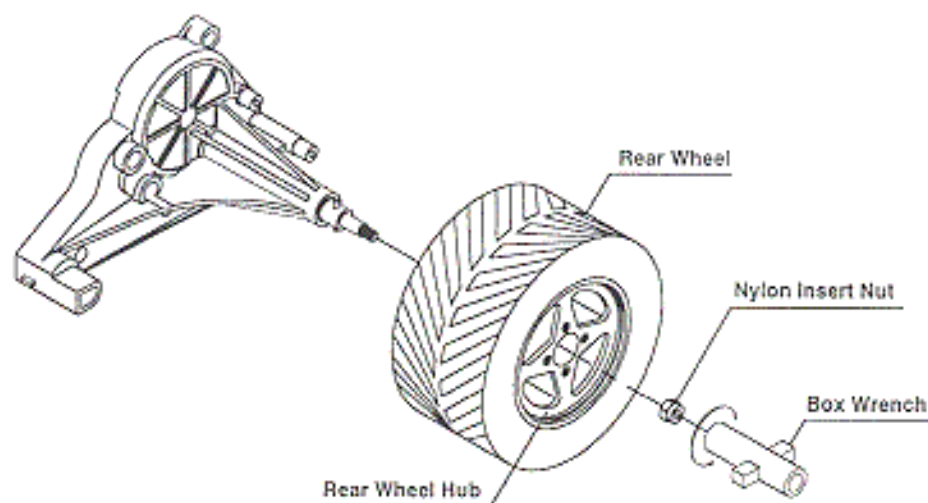
- Be sure all batteries are fresh and the battery pack is fully charged.
- Be sure that all batteries are properly installed/connected.
- Check for interference from other nearby radio-controlled devices. You cannot operate your vehicle near devices with transmitters of the same frequency. Interference can also come from overhead, high-voltage wires and power transformers.
- If someone uses a CB nearby, it might interfere with control of the vehicle. If this happens, move the vehicle away from the CB.
- Be sure the vehicle is not out of the transmitter's range. The range varies depending on the surrounding terrain and battery strength. If there are obstructions (buildings, fences, and so on) between the transmitter and the vehicle, the range is reduced.

INSTALLING REPLACEMENT PARTS

INSTALLING A FRONT TIRE AND WHEEL SET



INSTALLING A REAR TIRE AND WHEEL SET



INSTALLING A BUMPER SET

