

Jet Scream - a hybrid powered R/C vehicle

One of the latest breakthroughs in the manufacture of real automobiles is something called "Hybrid power technology". These cars are powered by two separate energy systems. One system is an internal combustion (gasoline) engine and the other power source is rechargeable batteries and an electric motor. The purpose of combining these two energy sources is to make a car that has excellent fuel economy AND enough reserve power to let it accelerate quickly in traffic. The Jet Scream uses the same principle to propel itself forward. But, the main purpose of using a "Hybrid" power source in the Jet Scream is a little different. It's to make it go FAST!

The Jet Scream is the first R/C vehicle to combine a powerful 9.6-volt Ni-cad electric motor with the additional thrust of a massive water "Rocket" motor. This combination makes the Jet Scream fun, fast, and highly controllable. The radio transmitter uses the latest in digital broadcast technology to allow multiple control functions over a single analog signal. This system allows the car to have full functional control PLUS the additional feature of being able to "Fire" the "Rocket" motor on command!

The "Rocket" motor is completely safe and does not use combustion for propulsion. The "Fuel" is simply plain tap water and compressed air. The principles are based in physics. A rocket works by providing a force in one direction so that the vehicle can move in the opposite. When the water is ejected at high velocity from the rear of the vehicle, it provides a thrust to help move the Jet Scream forward. By adding the power of the 9.6V electric motor with

the thrust of the rocket motor, the total acceleration is increased dramatically (not to mention making a cool "Blast" effect!)

The Jet Scream was designed to be extremely tough. For example, the clear blue canopy uses the same material as helmets for motorcycles and racing cars. The front bumper is made from a high-tech plastic that will absorb shocks still retain its shape. But, even with all this technology, the Jet Scream still needs YOU to care for it and drive it safely. By following these instructions completely, you and your Jet Scream vehicle will have the maximum amount of fun for the longest period of time.

Please review these instructions carefully and keep them in safe place for future reference.

General product description

Jet Scream vehicle (Fig 1)

1. Pressure cap
2. Air pump valve
3. Pressure relief valve
4. Valve reset lever
5. Water tank
6. Radio antenna
7. Rocket motor nozzle
8. 9.6V Ni-Cad battery box
9. Steering trim adjustment lever
10. ON/OFF switch

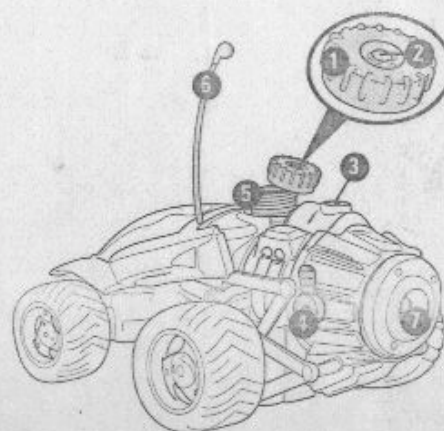


Fig 1

Air Pump (Fig 2)

11. Air pump valve seat
12. Air pump handle

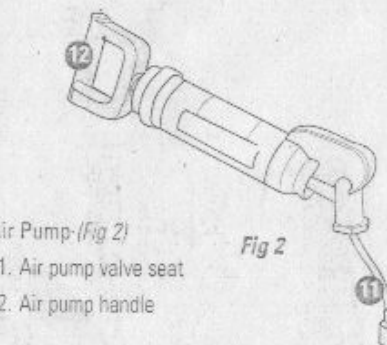


Fig 2

R/C controller (Fig 3)

13. Right/left lever
14. Forward/reverse lever
15. Antenna
16. Rocket blast button
17. Rocket blast shield
18. ON/OFF switch
19. LED power indicator
20. 9-volt battery box

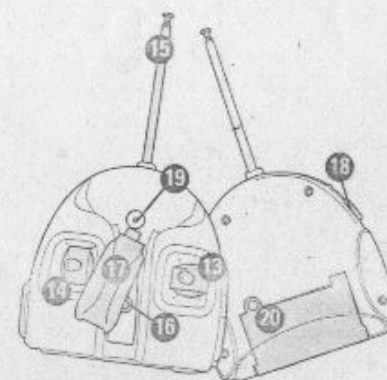


Fig 3

Vehicle set up

You will need to supply a fully charged 9.6-volt Ni-cad battery pack to make the Jet Scream run. These are very commonly available at most toy stores and are made by manufacturers such as Nikko or Earlylight. These will work perfectly for your vehicle. If you purchase a Ni-cad pack from a hobby store, DO NOT select one with a value greater than 800ma/hour. Using Ni-cad batteries higher than 800ma/hr may cause premature burn out of your electric motor.

NOTE: Follow ALL instructions provided by the manufacturer for your battery pack and charging unit exactly.

When the Ni-cad battery is charged and allowed to cool, open the battery box in the bottom of the Jet Scream vehicle. (Fig 4) Connect and lock the power cables as shown and carefully replace the battery door. Turn the key to lock the door.

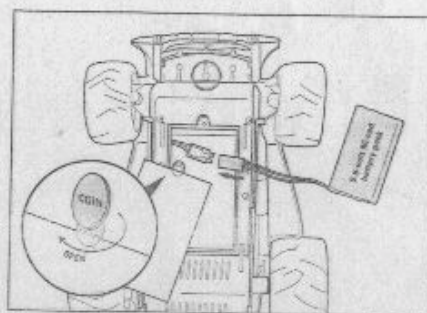


Fig 4

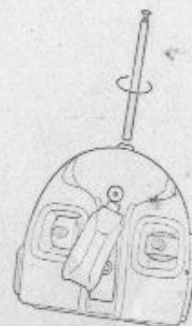


Fig 5

Transmitter set up

Find the metal antenna and screw it into the top of the Transmitter. (Fig 5)

Next, open the battery box in the back of the transmitter and insert a 9V battery as shown. (Fig 6) Replace the battery door and screw. Carefully extend the metal antenna to its full length. You're Jet Scream is now ready to drive!

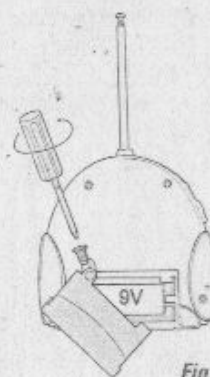


Fig 6

Finding a good location to run the Jet Scream vehicle

Jet Scream is designed to work well on HARD surfaces. It will not work well in heavy carpet, soft dirt or sand. Pick a surface such as asphalt, concrete, blacktop, or hard compacted dirt.

The Jet Scream has a radio radius of approximately 120 feet. (Fig 7) It can move very fast so it needs all the room it can get. Outdoor play is always suggested.

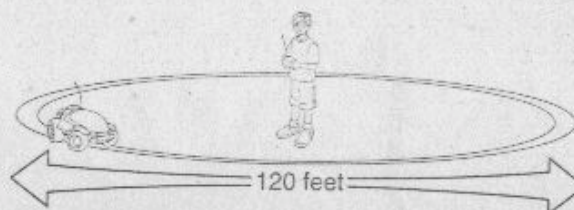


Fig 7