C. CONTENTS

Switch on the plane launcher and hold it in one hand with the plastic discs at the front pointing plate tilt angle by installing the long screw suction cup to holes along the center line.

Fold a piece of paper to make a paper plane. One way of making a paper plane is shown below.

WARNINGS: DO NOT FOLD POINTED PLANE DESIGN FOR SAFETY CONCERN.

E. USING YOUR ELECTRIC PLANE LAUNCHER

D. ASSEMBLING YOUR ELECTRIC PLANE LAUNCHER

1. Push the plastic rings into the base plate holes.
2. Push a pulley onto each motor spindle. Do not push the pulley all the way down the spindle - it could rub and slow the motor down.
3. Adjust the motor positions so that the spindle is not too big. Also, make sure you practice to achieve a good launch. If you are not comfortable, you may need some help with this.
4. Insert batteries according to the correct polarities.
5. Connect the wires to the motors as shown. DO NOT twist the wires around each other. - white wire white wire red red wire
6. Slide open the lid of the battery box and insert two AA size batteries. You may stick tape on the front and back to hold the battery box to the underside of the base plate with two sticky pads.
7. For optimum operation, always use fresh batteries.
8. Make sure that the supply terminals are not short circuited.
9. Never touch the contacts inside the battery case to prevent possible short circuit.
10. Do not leave batteries in the kit if it is not in use.
11. Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
12. Only use batteries of the same or equivalent type.

Sometimes there may be a gap between the motor pulleys and the base. If you have a pair of guides that can be fitted into the base plate before launching a plane. Your kit includes a plastic rings (grommet) and Sticky pads.

J. QUESTION AND COMMENTS

H. FACTS

Paper has been made for over 500 years and is now one of the most common and inexpensive materials. But many trees are needed each year just to supply one family with all the paper it needs. From books or the internet. Which designs fly farthest? Which designs work in the same way except the gap between the wheels is much greater.

Your electric plane launcher has been designed to launch paper planes at high speed. With your launcher you can try out different paper plane designs to see which ones fly farthest or which designs are the best for a particular type of flight. The plane should be pulled through and launched at high speed. Note: It may take some time to learn to launch a paper plane properly. The plane will be pulled out very fast. Ball launchers for tennis and cricket practice are available and may be used in the same way.

KITS CREATED BY SPECIALISTS WHO TEACH TEACHERS

PERSON. With the other hand, gently push the electric motors into the plastic rings. They will be very tight, but a tiny amount of washing up liquid on the plastic will help. You may use a spanner at home to tighten the screws. Install the suction cups to the base plate. Which way the plastic discs spin. The discs should spin in the directions shown. If not, the plastic discs are not installed correctly. If the plastic discs are installed correctly, then the plastic discs will spin in the opposite direction to the direction of the pull. If the plastic discs are not installed correctly, then the plastic discs will spin in the same direction as the pull.

You may use a plastic disc to correct the plastic discs. The plastic disc will be very tight, but a tiny amount of washing up liquid on the plastic will help. You may use a spanner at home to tighten the screws. Install the suction cups to the base plate. Which way the plastic discs spin. The discs should spin in the directions shown. If not, the plastic discs are not installed correctly. If the plastic discs are installed correctly, then the plastic discs will spin in the opposite direction to the direction of the pull. If the plastic discs are not installed correctly, then the plastic discs will spin in the same direction as the pull.

Push a plastic disc onto each pulley as shown. DO NOT twist the wires around each other. - white wire white wire red red wire

Strands together. Push a pulley onto each motor spindle. Do not push the pulley all the way down the spindle - it could rub and slow the motor down. 11. Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.

G. WHAT NEXT

H. FACTS

Strange but true

1. Requires two “AA” batteries (Not included).
2. Metal wires plate and wires may contain sharp points, adult assistance required during connection.
3. Insert batteries according to the correct polarities.
4. Make sure that the supply terminals are not short circuited.
5. Do not touch the contacts inside the battery case to prevent possible short circuit.
6. Never touch the contacts inside the battery case to prevent possible short circuit.
7. Do not recharge non-rechargeable batteries.
8. 1. This is not a toy. This is an educational aid product designed to demonstrate scientific concepts taught in school curriculum. Assembly and use should be done and work in the same way except the gap between the wheels is much greater.
9. Do not leave batteries in the kit if it is not in use.
10. Do not mix old and new batteries.
11. Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
12. Only use batteries of the same or equivalent type.

F. SAFETY

1. This is not a toy. This is an educational aid product designed to demonstrate scientific concepts taught in school curriculum. Assembly and use should be done and work in the same way except the gap between the wheels is much greater.
2. Metal wires plate and wires may contain sharp points, adult assistance required during connection.
3. Insert batteries according to the correct polarities.
4. Make sure that the supply terminals are not short circuited.
5. Do not touch the contacts inside the battery case to prevent possible short circuit.
6. Never touch the contacts inside the battery case to prevent possible short circuit.
7. Do not recharge non-rechargeable batteries.
8. 1. This is not a toy. This is an educational aid product designed to demonstrate scientific concepts taught in school curriculum. Assembly and use should be done and work in the same way except the gap between the wheels is much greater.
9. Do not leave batteries in the kit if it is not in use.
10. Do not mix old and new batteries.
11. Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
12. Only use batteries of the same or equivalent type.
C. CONTENTS

D. ASSEMBLING YOUR ELECTRIC PLANE LAUNCHER

F. HOW TO FOLD A PAPER PLANE

J. QUESTION AND COMMENTS

K. KITS CREATED BY SPECIALISTS WHO TEACH TEACHERS

A. SAFETY MESSAGES

B. MATERIALS

G. WHAT NEXT

H. HOW TO LAUNCH A PAPER PLANE

I. ELECTRIC MOTORS

- Metal wires plate and wires may contain sharp points, adult assistance required during connection.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zinc) or rechargeable (Nickel-Cadmium) batteries.
- Do not mix old and new batteries.
- Rechargeable batteries should only be charged under adult's supervision.
- Rechargeable batteries should be removed from the kit before being charged (if removable).
- Do not leave batteries in the kit if it is not in use.
- Insert batteries according to the correct polarities.
- For optimum operation, always use fresh batteries.
- Do not mix alkaline, standard (Carbon-Zine