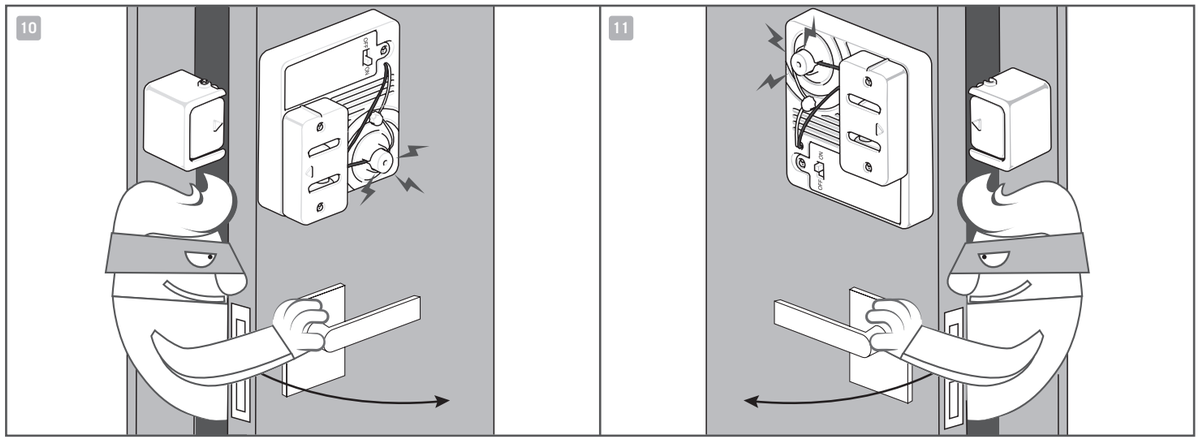
E. OPERATION



10. Your Magnetic Intruder Alarm is ready for action! Turn on the alarm and close the door. Now if anyone opens the door even a tiny bit the alarm will be triggered. Close the door again or switch off the alarm to silence the buzzer.
11. If your door handle is at the right-hand side of the door, stick the system onto the door upside down – it will still work.

F. TROUBLESHOOTING

If the alarm fails to sound in the tests in steps 5 or 6 above:
• Make sure you are using fresh batteries.
• Make sure your batteries are inserted in the holder with the correct polarities.
• Make sure the bare metal of the wires is in contact with the metal of the terminals.
• If the alarm fails to sound when the door is opened, repeat step 9 until it works.

G. HOW IT WORKS

The disc is made of steel, a magnetic metal which is attracted by the magnet. When the door is closed and the triangles on the magnetic holder and base are aligned, the disc is pulled to one side of the eyelet area by the magnet. When the door is opened, the magnet moves away from the base and the pull from the magnet is no longer strong enough to hold the disc. The disc rolls down into the bottom of the eyelet area and rests across the two terminals. This acts as a switch, completing the circuit and allowing current to flow through the buzzer.

H. Fun facts

• Many real house alarms use magnetic sensors like this to detect when doors or windows are opened and closed. A signal from the switch goes to the alarm's control box.
• Magnetic switches are used in many machines to detect when parts of machine are in or out of position. For example, they detect when dishwasher and washing machine doors are closed so that water does not leak from the machine.
• Many magnetic switches are called reed switches. Inside a reed switch is a thin metal strip (the reed) that bends when a magnet is close by. The bent reed closes a circuit to allow current to flow.
• Other switches use moving parts in a similar way. Tilt switches detect when a machine or part of a machine is tipped over to one side. Inside is a ball bearing that rolls over two contacts in the same way as the disc in the Magnetic Alarm to complete a circuit.
• Tilt switches are on pinball machines to stop players from tilting the table to cheat!

QUESTION AND COMMENTS

We treasure you as a customer and your satisfaction with this product is important to us. In case you have any comments or questions, or you find any parts of this kit missing or defective, please do not hesitate to contact our distributor in your country, whose address is printed on the package. You are also welcome to contact our marketing support team at Email: infodesk@4M-IND.com, Fax (852) 25911566, Tel (852) 28936241, Web site: WWW.4M-IND.COM

41-03440/QR 201124

MAGNETIC INTRUDER ALARM

PLEASE SCAN THE QR CODE TO VIEW MULTI-LANGUAGE INSTRUCTIONS

FR. Veuillez scanner le code QR pour afficher les instructions multilingues pour ce kit. **DE.** Bitte scanne den QR-Code, um die mehrsprachige Anleitung für dieses Set anzusehen. **NL.** Scan de QR-code om de instructies voor deze set in verschillende talen te bekijken. **IT.** Scansiona il codice QR per visualizzare le istruzioni multi-lingua per questo kit. **ES.** Escanee el código QR para ver instrucciones en varios idiomas para este kit. **JA.** QRコードをスキャンして、本キットの多言語説明書をご覧ください。

⚠ WARNING:
CHOKING HAZARD - Small parts.
Not for children under 3 years.

TO PARENTS: PLEASE READ THROUGH THESE INSTRUCTIONS BEFORE PROVIDING GUIDANCE TO YOUR CHILDREN.

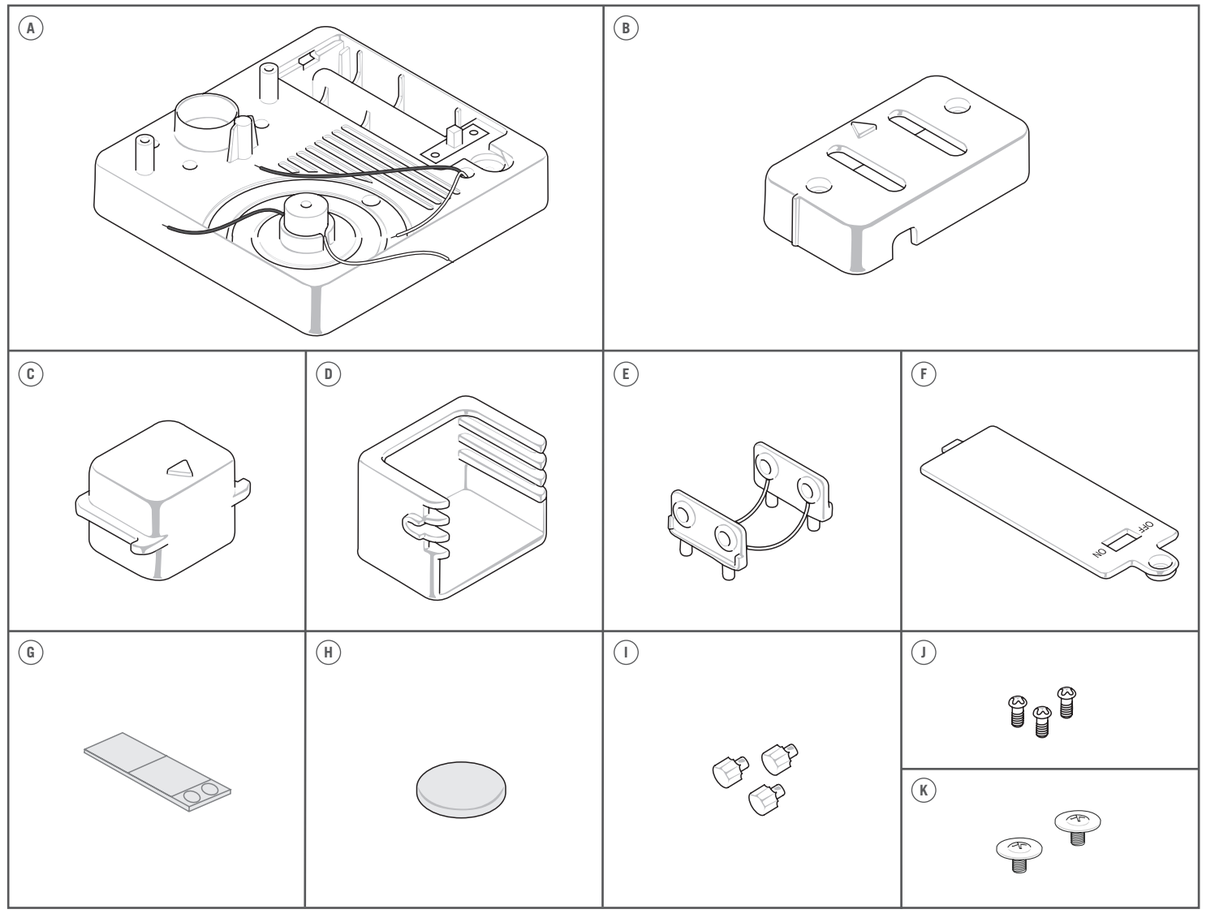
A. SAFETY MESSAGES

1. Adult supervision and assistance are required at all times.
2. This kit is intended for children 5 years or older.
3. This kit and its finished product contain small parts which may cause choking if misused. Keep away from children under 3 years old.
4. To prevent possible short circuits, never touch the contacts inside the battery case with any metal.
5. Only install batteries after the kit is assembled. Adult supervision is required.
6. Please read through all the instructions and keep them since they contain important information.

B. USE OF BATTERIES:

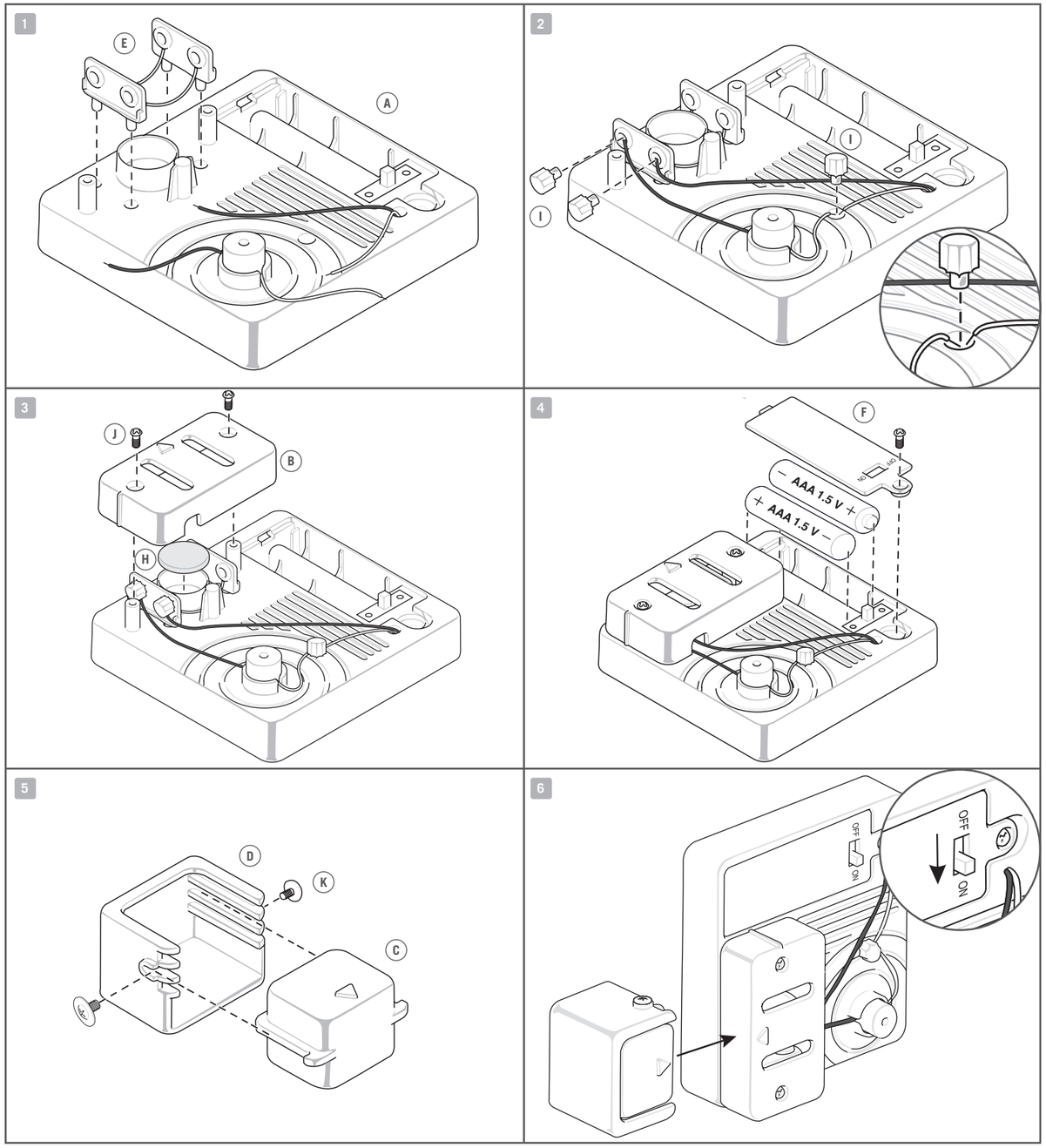
1. Requires two 1.5V AAA batteries (not included).
2. For best results, always use fresh batteries.
3. Make sure you insert the batteries with the correct polarities.
4. Remove the batteries from the kit when not in use.
5. Replace exhausted batteries straight away to avoid possible damage to the kit.
6. Rechargeable batteries must be removed from the kit before recharging.
7. Rechargeable batteries must be recharged under adult supervision.
8. Make sure that the supply terminals in the battery case are not short circuited.
9. Do not attempt to recharge non-rechargeable batteries.
10. Do not mix old and new batteries.
11. Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.

C. CONTENTS

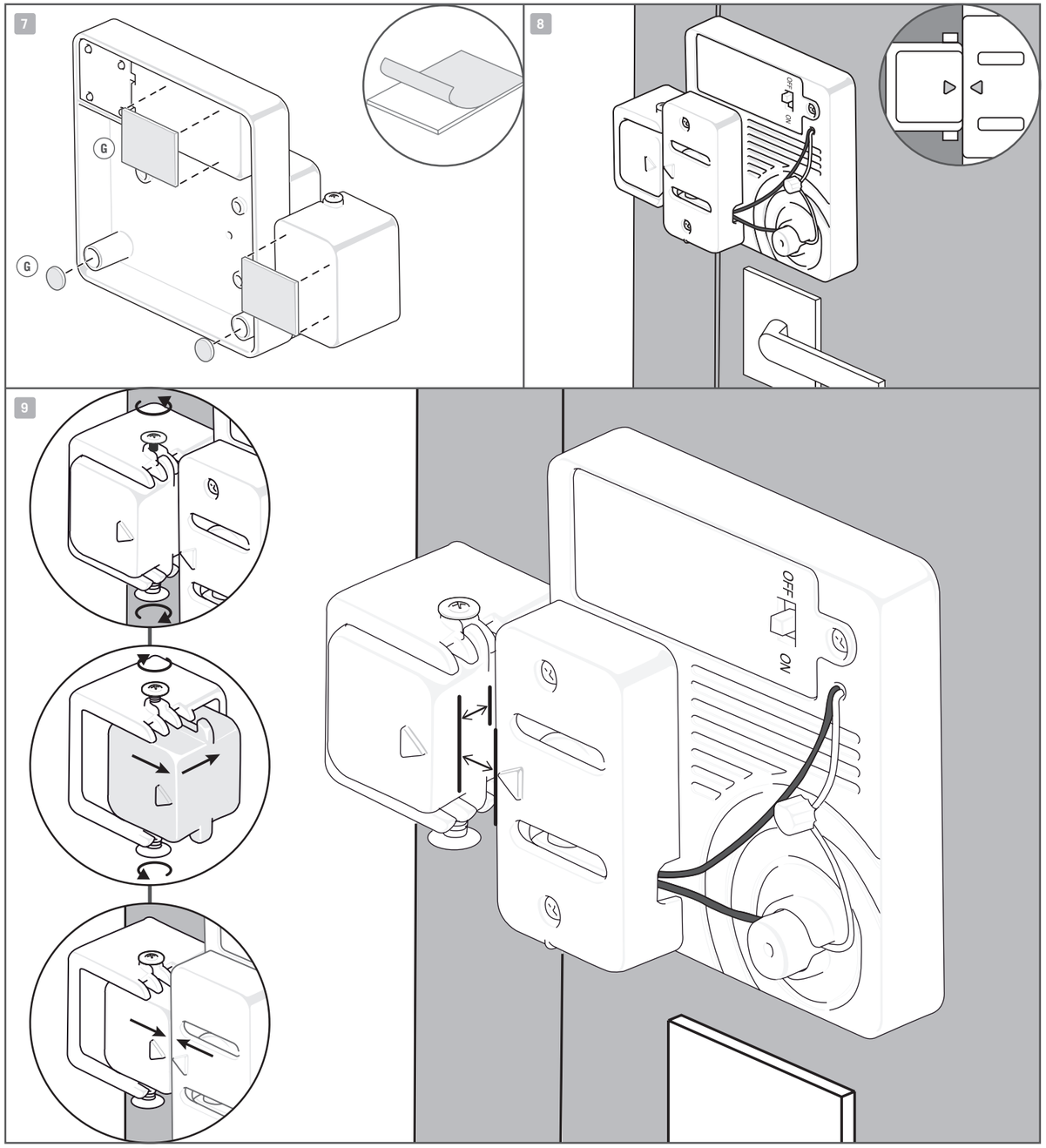


Part A: Base x 1, Part B: Cover x 1, Part C: Magnet x 1, Part D: Magnet holder x 1, Part E: Eyelet plate set x 1, Part F: Battery cover x 1, Part G: Adhesive tape, Part H: Metal disc x 1, Part I, Terminal caps x 3, Part J: Screws x 3, Part K: Washer screws x 2.
Also required but not included in the kit: 2 x 1.5-volt AAA batteries, a small crosshead screwdriver.

D. ASSEMBLY



1. Insert the two eyelet plates (part E) onto the base (part A) as shown.
2. Put the bare metal end of the black wire from buzzer into the left terminal on the eyelet plate as shown. Secure the wire in place with the terminal cap (part I). Repeat this step with the black wire from battery compartment to the right terminal. Put the bare metal ends of the two red wires in the terminal next to the buzzer and secure them with the terminal cap.
3. Place the metal disc (part H) into the area between the eyelets. Place the cover (part B) over the eyelet area and secure it with two screws (part J).
4. Insert two 1.5-volt AAA batteries into the battery compartment. Make sure the negative, flat ends of the batteries are against the springs in the battery case. Add the battery cover (part F) and secure it with a screw. Test the alarm by sliding the switch. The buzzer should sound when the alarm is placed upright (with the battery compartment at the top). Switch off the alarm after your test.
5. Slide the magnet (part C) into the magnet holder (part D). Screw the two washer screws (part K) into the holder and adjust them so that each one is just touching the magnet case. Do not over tighten the screws to avoid deforming the holder.
6. Switch on the alarm. With the alarm upright, place the magnet next to the base with the two arrows aligned. If you move the magnet towards the alarm, the buzzer's sound will be stopped. Switch off the alarm again after this test.



7. Peel the backing from one side of the pieces of adhesive tape (part G) and stick them onto the back of the alarm and the magnet holder as shown.
8. Peel the backing from the other side of the tape. Stick the magnet holder onto the door frame and the alarm base onto the door. Ensure the two arrows on the alarm and magnet are aligned as shown.
9. If the magnet is too far from the base because of the shape of your door frame, the alarm will sound continuously when switched on. You will need to adjust the position of the magnet in its holder. Loosen the two screws first. You can adjust the magnet's position by moving it to a different slot in the holder and by sliding it sideways in its slot. The aim is to make the magnet and metal disc as closely as you can. After making adjustment, retighten the two screws.