

**WARNING:** CONTAINS LEADS WITH FUNCTIONAL SHARP POINT ON LEADS.

**WARNING:** FOR SAFETY REASONS, REMOVE ALL TAGS, LABELS AND PLASTIC FASTENERS BEFORE GIVING THIS TOY TO YOUR CHILD.

**WARNING:** BATTERIES ARE TO BE INSERTED WITH THE CORRECT POLARITY (+ AND -). DO NOT MIX DIFFERENT TYPES OF BATTERIES OR NEW AND USED BATTERIES. NON-RECHARGEABLE BATTERIES ARE NOT TO BE CHARGED. RECHARGEABLE BATTERIES ARE ONLY TO BE CHARGED BY AN ADULT. THE SUPPLY TERMINALS ARE NOT TO BE SHORT-CIRCUITED. REMOVE BATTERY FROM THE TOY WHEN NOT IN USE FOR AN EXTENDED TIME OR WHEN BATTERIES BECOME EXHAUSTED. BATTERY INSTALLATION BY AN ADULT IS REQUIRED. DISPOSE OF BATTERIES RESPONSIBLY. DO NOT DISPOSE OF IN FIRE.

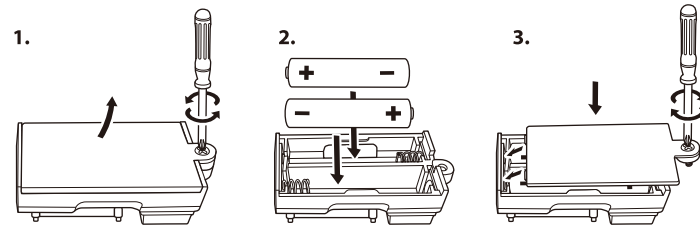
**WARNING:** CHOKING HAZARD- SMALL PARTS. NOT FOR CHILDREN UNDER 3 YEARS.

**WARNING:** HAIR ENTANGLEMENT MAY OCCUR IF THE CHILD'S HEAD IS TOO CLOSE TO THE MOTORIZED UNIT OF THIS TOY. ADULT SUPERVISION AND ASSISTANCE REQUIRED.

PRODUCT MAY VARY SLIGHTLY FROM IMAGE SHOWN. PLEASE KEEP PACKAGING FOR FUTURE REFERENCE.

To insert batteries please unscrew battery cover with a screw driver. Insert the required batteries in accordance with battery polarity with + and - ends in the right position and then fix screw on the battery door to close the battery compartment case.

Please retain this information and this insert for future reference.



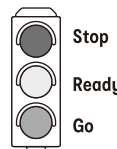
**2X AA** REQUIRES 2 x 1.5V AA BATTERIES (NOT INCLUDED).

### Introduction

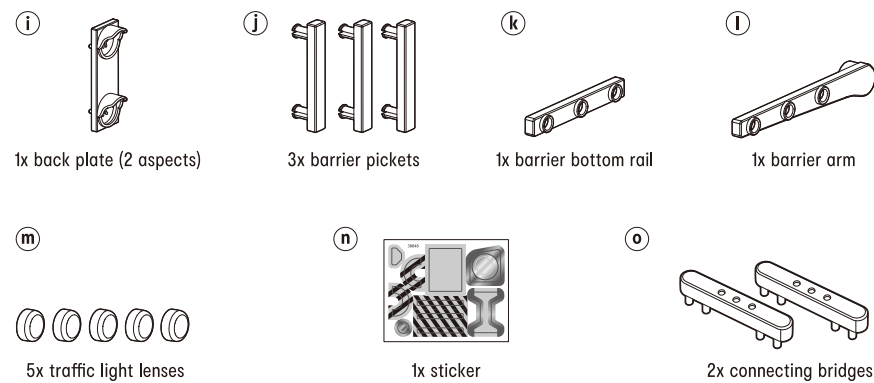
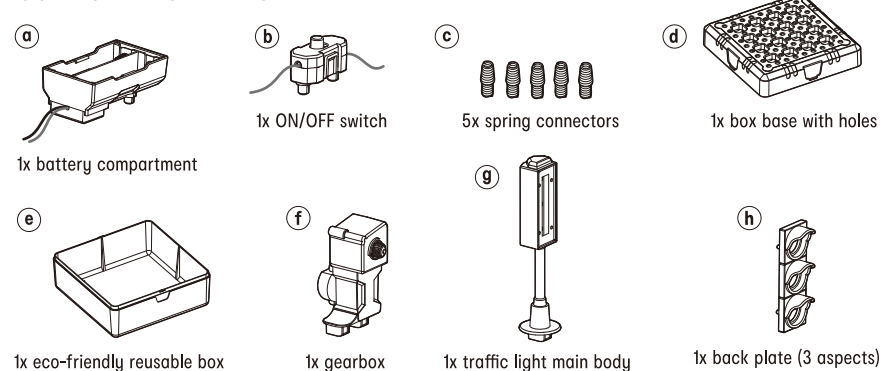
The Digital Traffic System includes a traffic light and a boom barrier. The three aspects traffic lights are common for controlling vehicles during traffic and it can transform into a two aspects traffic light for controlling pedestrian traffic. The boom barrier usually exists in exit/entrance of a parking lot or a level crossing. This amazing traffic system can combine these two pieces of traffic control devices together.

### Educational Hints:

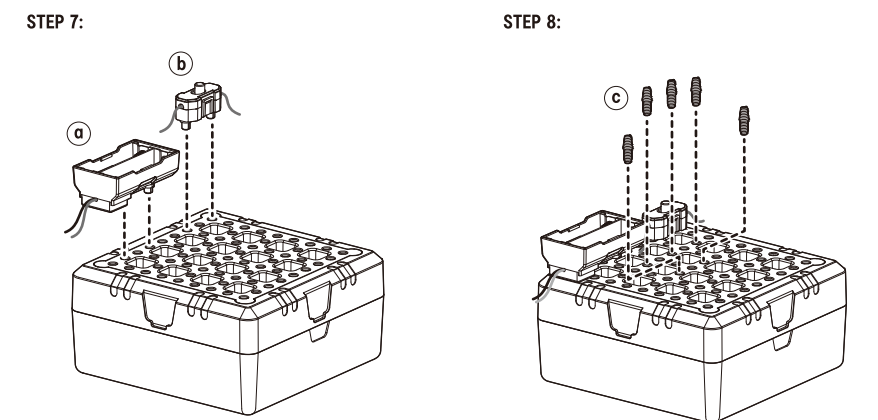
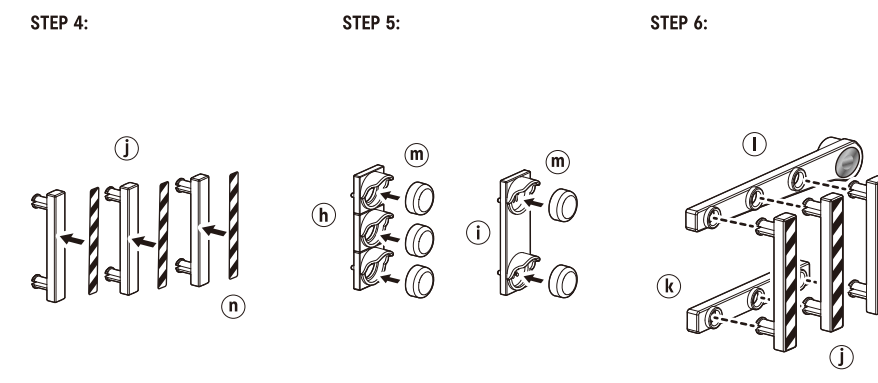
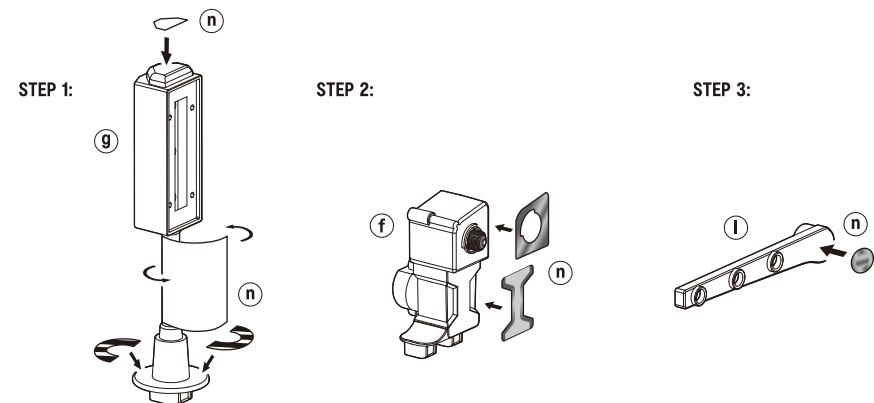
Did you know the first traffic light was invented by J P Knight? A traffic system is developed to control traffic and for road safety. Traffic lights and boom barriers are used in this traffic system. The traffic light uses a universal colour code to control traffic. Green light means go, the red light means stop, and the amber (yellow) light gives warning and signals ready to stop which usually won't be used in pedestrian control. The traffic lights will slow down the traffic and might potentially cause traffic jams in big cities because it stops vehicles frequently. However, it can prevent and minimize traffic accidents which will cause bigger traffic jams and it can give drivers clear guidance to avoid chaos. Boom barriers usually used in level crossings, drawbridge as an active protection because red-light running violations in these areas will often result in a fatal disaster. People might ignore the traffic lights due to their carelessness so a boom barrier in these areas act as a stricter control. Boom barriers may also be used in parking lots to help control vehicles passing through to help stagnate the traffic or to charge vehicles using the parking lot.



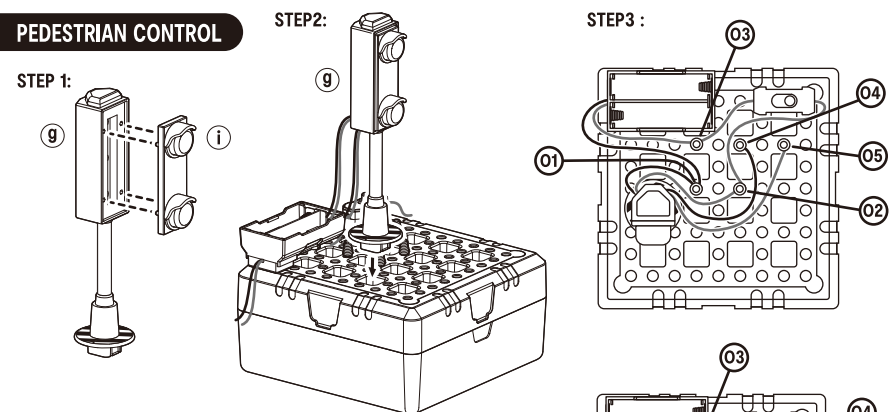
### COMPONENTS IN THIS KIT



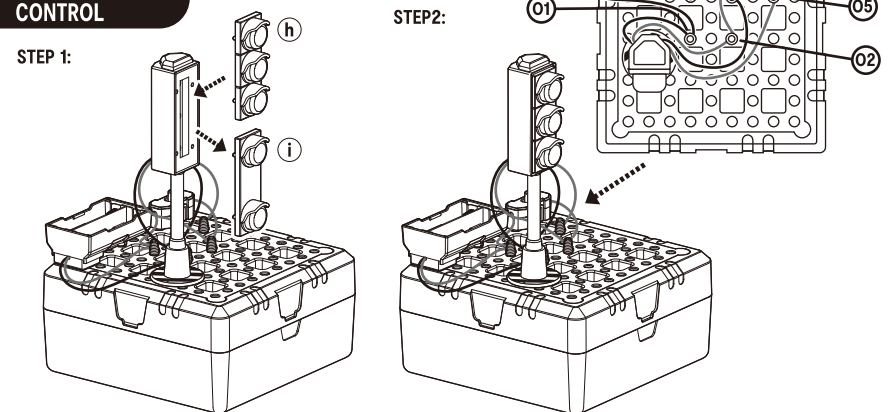
Assembling your Traffic system Follow the below steps as figures shown.



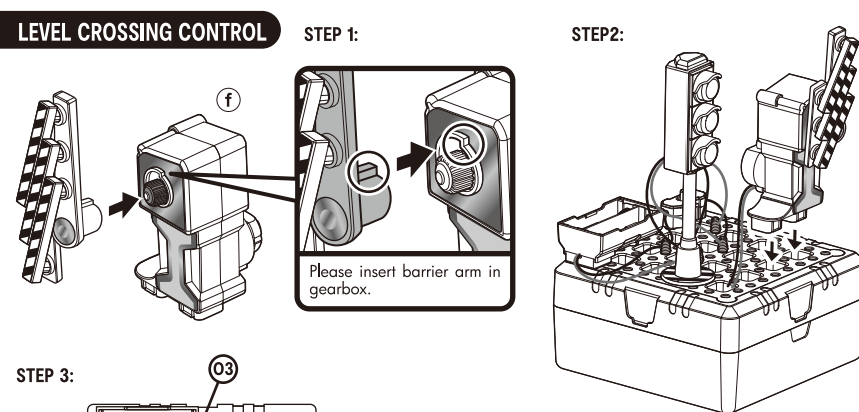
### PEDESTRIAN CONTROL



### VEHICLE TRAFFIC CONTROL

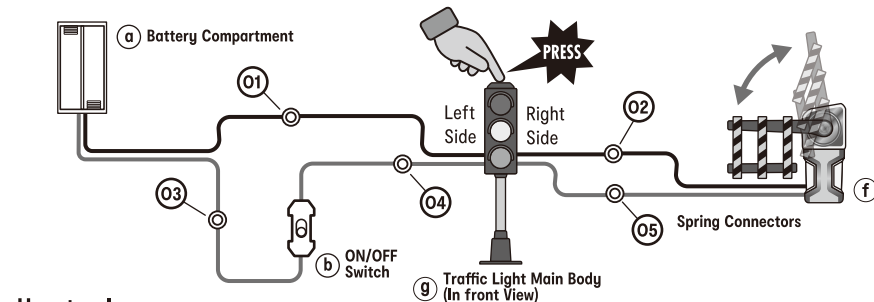


### LEVEL CROSSING CONTROL



### BASIC CONNECTION PRINCIPLE

Wiring connections	Spring (01)	Spring (02)	Spring (03)	Spring (04)	Spring (05)
Battery Compartment (01)	black		red		
ON/OFF Switch (02)		red	red		
Gearbox (06)				black	red
Traffic Light Main Body (07) (In front View)	Left Side	black	red		
	Right Side			black	red



### How to play

1. Assemble this kit according to steps provided. Insert 2 AA batteries into battery case (batteries are not included).  
2. Switch ON the system. Press the button on the top of the traffic light and the traffic light will start off with red signal. It's normal to hear the cracking sound when you first press the button because it's the reset of the boom barrier.  
3. Keep pressing the button: The traffic light will change with this sequence: red-yellow-green-yellow-red (three aspects for vehicle traffic control) or red-dull-green-dull-red (two aspects for pedestrian control). Boom barrier: when the red light is on, the boom barrier will go down; when the green light is on, it will rise up; when the yellow light is on, it will stay still. (For level cross control)  
4. When you finished playing, please turn off the set and remove all the batteries from the battery case.

Ensure all wires are correctly connected to the battery terminals and spring connectors as stated in the wiring sequence and connection. Bend the spring terminal over and insert the exposed shiny conductor part of the wire into the spring terminal. Make sure the wire is securely connected to the spring terminal. If the circuit does not work, you can check the wire and spring terminal connection whether they are not well connected or the insulated plastic part of the wire has been wrongly inserted into spring terminal.

**Warning!** Do not short-circuit the battery terminals and spring connectors. Otherwise it may cause overheating. Do not lock the motor or other moving parts. Otherwise it may cause overheating.

If at any time in the future you should need to dispose of this product please note that waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)

43-148-707

**MADE IN CHINA**  
FOR AU / NZ: IMPORTED FOR KMART STORES IN AUSTRALIA AND NEW ZEALAND.

**anko**

## Build Your Own Digital Traffic System

> practice traffic management & safety

**8+** years

BATTERY POWERED

STEM

SCIENCE TECHNOLOGY ENGINEERING MATHS

