

Globe model "Structure of the Earth"

LABOTRIX GLOBE G3

PRODUCT PASSPORT

Kyiv

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Contents

1. General Information about the Product.....	2
2. Technical Specifications.....	2
3. Package Contents.....	2
4. Safety Precautions.....	3
5. Preparation for Use.....	4
6. Operating Procedure.....	4
7. Care, Maintenance and Troubleshooting.....	5
8. Storage and Transportation Conditions.....	5
9. Warranty Obligations.....	6
10. Product Disposal.....	6
Contacts.....	7
WARRANTY CARD.....	8
Service Records.....	10

1. General Information about the Product

- 1.1. **Product name** — Model globe "Structure of the Earth".
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Globe G3; full trade designation — LABOTRIX GLOBE G3.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** the model shows the internal structure of the planet Earth. A fragment is cut out of the sphere, through which the successive layers of our planet are visible — from the outer Earth's crust through the mantle to the core at the center. The product is used when studying topics on the Earth's internal structure, movements of the Earth's crust, earthquakes, and volcanism in geography and natural science lessons. The model is suitable for teaching in grades 5–11.
- 1.6. **Design features:** a sphere-shaped globe on a stand; the surface shows the continents, oceans, and the largest geographical features. A cut-out segment shows the concentric layers in cross-section: the Earth's crust (a thin band), the mantle (the widest layer), and the core (in the center). The product is colored in bright, contrasting colors for clarity. It has no power supply or moving mechanisms, except for rotation on the stand.

2. Technical Specifications

- Brand — Labotrix
- Model — Globe G3
- SKU — LTX-GLOBE-G3
- Product type — demonstration model of the Earth's internal structure (globe model)
- Diameter of the sphere (millimeter) — 320
- Cut-out segment — 1/8 of the surface
- Structural layers visible in the cross-section — the Earth's crust, mantle, and core
- Power supply — not required
- Operating conditions — premises of an educational institution, air temperature from +5 to +40 °C, relative humidity from 40 to 60 % without condensate
- Language of marking and operating documentation — Ukrainian
- Product marking — trademark, model and a space for the inventory number
- Documentation supplied — product passport with warranty card and operating manual
- Installation method — tabletop, on the classroom demonstration table
- Care of the surfaces — wiping with a dry or slightly damp cloth is permitted
- User requirements — the model is used by students under teacher supervision
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Globe model with a cut-out segment — 1 pcs

- Black plastic stand — 1 pcs
- Axis and mounting parts (depending on version) — as per the packing list
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The exact package contents are listed in the packing list. After unpacking, check that all items are present; keep the box for long-term storage and transportation.

4. Safety Precautions

4.1. General requirements

- Before first use, read the passport in full. Students work with the model only under the supervision of the teacher.
- Inspect the unpacked product for damage: the sphere must have no cracks, chips, or sharp edges at the cut-out; the surface of the cross-section must be smooth.
- The model is intended for educational use, not for play: do not throw the sphere, do not roll it on the floor, and do not spin it on the table.
- Install the model on a level, stable surface, no closer than 20–30 cm from the edge of the table, away from walkways.

4.2. Working with the model

- Carry the globe with both hands, supporting it from below; do not hold it by the edge of the cut-out, and do not carry it by the stand with one hand.
- Rotate the sphere gently, without jerking; do not spin it with force.
- Point to objects on the model with a pointer or the blunt end of a pencil, not with a fingernail — sharp objects leave scuff marks on the surface.
- Allow students to touch the cross-section with a finger while examining the layers, but do not allow them to press on the edge of the cut-out.

4.3. Protection from damage

- Do not lean on the model, do not place heavy objects on the sphere and do not hang foreign objects on it.
- Monitor the integrity of the cut-out edge; a sharp edge or burrs — a reason to withdraw the product from use.
- Keep the model away from heat: do not place it near radiators, heaters, spirit burners, or in direct sunlight.
- Do not leave the globe on the edge of a shelf, windowsill, or in places where it can be knocked.

4.4. It is strictly prohibited

- Disassembling the model, enlarging the cut-out, or disassembling the axis without permission.
- Immersing in water, washing under running water or in a dishwasher.
- Using alcohol, acetone, solvents, abrasive powders, or hard sponges when cleaning.
- Writing on the sphere with markers or applying stickers without the manufacturer's permission.
- Trying to glue a cracked sphere with solvent-based adhesives — they corrode the plastic.

5. Preparation for Use

- 5.1. Unpack the product on a level, clean surface; take out the sphere with both hands, supporting it from below.
- 5.2. Check the completeness against the packing list; keep the packaging and the box.
- 5.3. Inspect the sphere and stand for cracks, chips, and burrs; a product with sharp edges must not be used.
- 5.4. If the stand is supplied separately, assemble the model: install the sphere on the axis so that it is held without skewing and rotates freely.
- 5.5. Check stability: the model should not rock or shift with light pressure.
- 5.6. Wipe off dust with a soft dry cloth.
- 5.7. Choose a permanent location away from sunlight and heat sources, where the model will be safe and accessible.
- 5.8. Turn the cut-out to face the class and check from the back desks whether the layers are visible; if necessary, plan the demonstration in groups.

6. Operating Procedure

6.1. Showing the outer surface

Place the globe on the demonstration table with its intact side facing the class. Ask the students to identify the continents and oceans, and to point out the equator and the poles. Tell them that this is the same Earth they have seen on a map.

6.2. Display of the layers in cross-section

Turn the sphere so the cut-out faces the class. Move the pointer from the surface inward, naming the layers in sequence: the Earth's crust (a thin outer band) → the mantle (a wide layer) → the core (the center). Repeat in reverse order from the center outward, emphasizing the sequence and thickness of the layers.

6.3. Demonstration of the parts

Draw attention to the edge of the cut-out, where the Earth's crust is visible as a thin layer covering the planet. Show the center of the Earth, where the cut planes meet. Explain that the colors on the model are conventional; the actual substance of the interior is a different color.

6.4. Work in groups

Give each group a task: name the layers in order, determine the thickness of each layer compared to the others, and find where a particular country is located on the surface. Limit the working time.

6.5. Conclusion

Take the model down with a smooth motion; do not allow students to leave the product on the edge of the table. Turn the sphere to its working position and cover it from dust.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- Regularly wipe the sphere and the stand with a dry soft microfiber cloth.
- Remove dust from the cut-out with a dry soft brush.
- Remove visible soiling with a cloth very slightly moistened with clean water and wipe dry immediately.
- It is prohibited to use alcohol, acetone, solvents, glass cleaners, abrasive powders, or hard sponges.

7.2. Periodic inspection

- At least once a month, check the integrity of the cut-out and its edges, and the security of the sphere's attachment to the axis.
- The model does not require lubrication or adjustment by the user.
- Repairs are performed only by an authorized service center.

7.3. Possible malfunctions and methods of their elimination

Symptom	Possible cause	User actions
The sphere rotates stiffly or jams	Contamination of the axis unit, or the axis is bent from being rotated by the axis	Remove dust with a dry cloth; from then on, rotate only the sphere, not the axis
The sphere wobbles or comes off the axis	The sphere's attachment in the stand has loosened; impact, fall	Tighten the mounting as specified in the passport; check the integrity of the axis
The model stands unsteadily	Uneven table surface; deformed stand	Move it onto a level surface; check the supports of the stand
Scratches are visible in the cross-section	Contact with sharp objects	Expect minor scratches — they are normal; deep ones require the product to be taken out of use
The layers have faded, the colors have washed out	Prolonged action of direct sunlight	Move it to a shaded place; the fading is irreversible
Crack, chip, or sharp edge in the cross-section	Drop, impact, improper rotation	Withdraw the product from service; contact the supplier

8. Storage and Transportation Conditions

- Store in a dry, enclosed room at a temperature not lower than +5 and not higher than +40 °C, relative humidity up to 80% without condensation.
- Protect from direct sunlight: place it in a shaded area of the classroom, in a closed cabinet with doors, or in its original box.
- Do not place near heating radiators, heaters, air conditioners and other heat sources.

- When transporting or storing for a long time, pack the model in the factory box with soft material; pack the stand separately.
- Do not place other teaching aids on the model, and do not stack boxes on top of each other.
- The storage period before commissioning is unlimited provided that the specified requirements are observed.

9. Warranty Obligations

- 9.1. The warranty period of operation of the product is 12 months from the date of sale specified in the warranty card.
- 9.2. The manufacturer guarantees that the product conforms to the declared technical specifications provided that the transportation, storage and operating rules set out in this passport are observed.
- 9.3. During the warranty period, defects of the product that have arisen through the fault of the manufacturer are remedied free of charge. The method of remedy (repair, replacement of a component or replacement of the product) is determined by the service center.
- 9.4. Warranty service is provided on presentation of a correctly and completely filled-in warranty card and of a document confirming the fact and the date of purchase.
- 9.5. The warranty does not cover cases where the malfunction is caused by:
 - mechanical damage, in particular cracks, chips and deformation of the housing and of the components of the product;
 - violation of the operating, storage or transportation rules set out in this passport;
 - ingress of liquid or foreign objects into the product, and also the action of insects and animals;
 - independent disassembly, repair or modification of the product, in particular repair at unauthorized workshops;
 - use of the product other than for its intended purpose;
 - force majeure circumstances (fire, flood, earthquake, etc.).
- 9.6. The warranty does not cover the natural wear of the coating and of the appearance of the product, nor consumables.

10. Product Disposal

- The product is not electrical or electronic equipment, therefore the marking in the form of a crossed-out container does not apply to it.
- After the end of the service life, the product is disposed of according to the rules established at the institution that operated it, with prior separation by materials.
- Hand over the packaging elements (cardboard, polymer materials) to the corresponding streams of recyclable materials.

Contacts

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Conditions of use and storage of the product

The product is intended for educational work in general secondary education institutions and is used only under the control and supervision of a teaching staff member; the recommended age of students — from 10 years, that is, students of grade 5 and of higher grades. Keep the product in a dry, clean and ventilated room at a temperature from +5 to +40 °C and relative air humidity up to 80 % without condensation, separately from heat sources and out of direct sunlight, moisture and dust. Use the product exclusively for its intended purpose and do not allow drops, impacts or other mechanical damage. If you notice damage, a crack or any malfunction, stop working with the product immediately and inform the teacher or the responsible person of the educational institution; repairing the product on your own is prohibited.

WARRANTY CARD

Name:	Globe model "Structure of the Earth"
Product model:	LABOTRIX GLOBE G3
Serial number:	
Date of sale:	
Warranty period:	12 months from the date of sale
Trading organization:	
Signature of the seller:	

The goods have been received in working order, without visible damage, complete, and have been checked in my presence. I have no claims regarding the quality of the goods; I have read and agree to the operating and warranty service conditions.

Full name of the buyer _____

Telephone of the buyer _____ Signature of the buyer _____

Dear Customer!

Thank you for choosing Labotrix products. After-sales service of this product is provided in accordance with the regulations of the company and the legislation of the country of sale. So that we can serve you quickly and without unnecessary formalities, check that this warranty card is filled in correctly at the moment of purchase and keep it together with the payment document throughout the entire warranty period. When applying for repair, hand the product over to the seller or to the service center together with the filled-in card.

Procedure for applying

1. The right to free warranty service of the product is valid for 12 months from the date of sale specified in the warranty card. Within this period, components that have failed because of a manufacturing defect are repaired or replaced at no cost to the buyer.
2. Before applying, make sure that the malfunction is not caused by the reasons listed in section 9 of this passport and, if possible, use the table of possible malfunctions in subsection 7.3.
3. After the end of the 12-month warranty period, repairs are performed on a paid basis; the cost of the work and of the spare parts is determined depending on the nature of the malfunction.

Grounds for refusal of warranty service

The company reserves the right to refuse free service or to perform the work on a paid basis if at least one of the following circumstances is established:

- absence of the warranty card, its incomplete or corrected completion, and also the absence of a document confirming the purchase;
- non-conformity of the serial number of the product with the number specified in the card, or damage to the factory marking;
- traces of independent disassembly, repair or modification of the product;
- damage caused by violation of the operating rules, connection to an unsuitable power source or external mechanical impact;
- damage as a result of force majeure circumstances.

Service Records

Date of entry	Description of the malfunction	Work performed	Position, signature, full name of the responsible person