

Tool set for the classroom

LABOTRIX GEOSSET G1

PRODUCT PASSPORT

Kyiv

2026

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1. General Information about the Product

- 1.1. **Product name** — Classroom instrument set.
- 1.2. **Trademark** — Labotrix.
- 1.3. **Model** — Geoset G1; full trade designation — LABOTRIX GEOSSET G1.
- 1.4. **Manufacturer** — Labotrix Group Limited, China.
- 1.5. **Intended use:** classroom instrument set Labotrix Geoset G1 — a set of enlarged-format demonstration drafting equipment for working directly on the classroom board. The set is used in mathematics and geometry lessons when constructing straight, parallel, and perpendicular lines, angles of a given size, circles and arcs, and also when measuring angles. The product is suitable for any magnetic (metal) board and does not require additional mounting or a power source.
- 1.6. **Design features:** all tools in the set are equipped with magnetic fasteners that securely hold the equipment on a metal surface and prevent it from sliding during drawing. The bodies are made of impact-resistant plastic, the scales are applied with high-contrast printing that remains clearly visible from the back rows of the classroom. The compass has two interchangeable holders into which school chalk or a whiteboard marker is inserted, so a single tool can be used on both a chalkboard and a marker board.

2. Technical Specifications

- Brand — Labotrix
- Model — Geoset G1
- SKU — LTX-GEOSSET-G1
- Product type — a set of demonstration drafting equipment for the classroom board
- Number of tools in the set (pcs) — 5
- Length of the demonstration ruler (cm) — 100
- Scale division value of the ruler (cm) — 1
- Working range of the protractor (°) — from 0 to 180
- Scale division value of the protractor (°) — 1
- Dimensions of the triangle with 30° and 60° angles (cm) — 40 × 50
- Dimensions of the triangle with a 45° angle (cm) — 30 × 30
- Working element of the compass — interchangeable holder for chalk or whiteboard marker
- Method of attachment to the board — magnetic fasteners
- Type of surface on which the product operates — magnetic (metal) classroom board
- Tool material — impact-resistant plastic
- Power — 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
- Packaging — individual box of corrugated cardboard with the contents secured

- Documentation supplied — product passport with warranty card and operating manual
- Ready-to-use condition — supplied ready for use, requires no preliminary setup
- User requirements — the workplace is prepared by the teacher, students work with the set under supervision
- Service life (year) — 5
- Warranty period (month) — 12

3. Package Contents

- Demonstration ruler with scale, 100 cm — 1 pcs
- Classroom protractor 180° with holder — 1 pcs
- Classroom compass for chalk and marker — 1 pcs
- Classroom triangle with 30° and 60° angles (40 × 50 cm) with holder — 1 pcs
- Classroom triangle with a 45° angle (30 × 30 cm) with holder — 1 pcs
- Product Passport and Warranty Card — 1 pcs
- Individual transport packaging — 1 pcs

The magnetic fasteners are an integral part of the respective tools and are not supplied separately. Chalk and whiteboard markers are not included in the set and are purchased separately. The product does not require assembly before first use.

4. Safety Precautions

4.1. General requirements

- Before first use, read this passport and thereafter keep it together with the product and the document of purchase.
- In the educational institution, the set is used by the teacher or another staff member who has completed occupational safety training. Students may work with the tools only under adult supervision.
- Inspect the unpacked set to identify possible damage. It is prohibited to use tools with cracked bodies, broken-off corners, a loose compass hinge, or missing magnetic fasteners.
- Make sure that no unauthorized persons are in front of the board during demonstrations, since the large-format tools may fall.

4.2. Work with magnetic elements

- The magnetic fasteners create a permanent magnetic field. Keep the tools at a distance of not less than 10 cm from bank cards, key cards, magnetic data storage media, mechanical watches, and hearing aids.
- Do not bring the set closer than 30 cm to pacemakers and other implanted medical devices.
- Do not give the magnetic elements to children. Swallowing a magnet is life-threatening; if swallowed, seek medical attention immediately.
- Do not bring the magnetic fasteners together with a sharp motion: a magnet striking another magnet may cause chipping and flying fragments.

4.3. Protection against injuries

- The corners of the triangles and the compass leg have a pointed shape. Carry the tools with the point directed toward the floor, and do not hold them at face level.
- Before starting constructions, make sure the tool holds firmly on the board and that the magnetic fasteners are not contaminated with chalk dust.
- Do not lean on a tool attached to the board and do not hang foreign objects on it.

4.4. It is strictly prohibited

- Use the tools in the set as a pointer, a cutting ruler, a lever, or a prop.
- Attach the tools to glass, wooden, plastic, or other non-magnetic surfaces using glue, tape, or nails.
- Disassemble the compass hinge independently, remove or reposition the magnetic fasteners, or alter the geometry of the tools.
- Heat the tools, dry them on heating radiators, or leave them under direct sunlight.
- Immerse the tools in water, wash them under running water, or wash them in a dishwasher.

5. Preparation for Use

- 5.1. Free the tools from their packaging and remove the transport stickers and protective film from the scales. We recommend keeping the packaging for transportation or long-term storage.
- 5.2. Check the completeness of the set against Section 3 of this passport and inspect each tool for the absence of mechanical damage.
- 5.3. Wipe the tools and magnetic fasteners with a dry soft cloth to remove dust and chalk residue — a contaminated fastener holds less securely.
- 5.4. Make sure the surface of the classroom board is clean, dry, and has magnetic properties: apply the tool and gently pull it downward. A tool that slides must not be used on such a board.
- 5.5. To work with the compass, insert school chalk or a whiteboard marker into the holder and secure it with the clamping knob. The length of the protruding part must not exceed 20 mm.
- 5.6. If the set was transported or stored at a temperature below +5 °C, let it stand at room temperature for at least 1 hour before use — this prevents condensation from forming on the scales.

6. Operating Procedure

6.1. Attaching the tool to the board

Apply the tool to the board with its reverse side and press it so that all magnetic fasteners come into contact with the surface. Check the attachment with a light motion: a correctly installed tool does not shift under the pressure of the tip.

6.2. Ruler and triangles

- The ruler with a 100 cm scale is used to construct line segments of a given length, straight lines, and to demonstrate units of length.

- The triangle with 30° and 60° angles and the triangle with a 45° angle are used to construct angles of standard size, perpendiculars, and parallel lines.
- To construct parallel lines, fix the ruler as a guide and move the triangle along its edge without lifting it from the board.

6.3. Protractor

- Align the central mark of the protractor with the vertex of the angle, and the zero graduation — with one of the sides of the angle.
- Read the angle value on the inner or outer scale — depending on which direction the angle is laid off.
- To construct an angle of a given size, mark the required graduation after removing the protractor, and connect the mark to the vertex using the ruler.

6.4. Compass

- Place the compass's support leg at the center point of the circle and secure it with the clamp.
- Set the required radius by spreading the legs apart, and tighten the hinge fastener.
- Draw the circle in one continuous motion, holding the compass by its top knob and without changing the angle of tilt to the board.

6.5. Finishing the work

- Remove the tool from the board with a smooth motion, lifting it away starting from the edge rather than the center — this way the magnetic fasteners do not deform.
- Remove the chalk or marker from the compass holder, fold the legs, and return the tools to their packaging or storage location.

7. Care, Maintenance and Troubleshooting

7.1. Cleaning

- Wipe the scales and bodies with a dry or slightly damp soft cloth, then wipe dry.
- Remove chalk dust from the magnetic fasteners with a dry soft-bristle brush.
- Remove stubborn contamination with a cloth dampened in a solution of neutral dishwashing detergent.
- It is prohibited to use abrasive powders and pastes, metal brushes, solvents, acetone, alcohol, and chlorine-containing products: they damage the scale printing.

7.2. Periodic inspection

- At least once a month, check that the magnetic fasteners are securely attached and that the scales remain clear.
- Check the tightness of the compass hinge: the legs must not spread apart on their own under their own weight.
- The product does not require lubrication, calibration or other maintenance operations on the part of 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
Tool slides off the board	Board surface is non-magnetic, contaminated, or covered with chalk dust; fasteners are contaminated	Check the magnetic properties of the board, wipe the surface and fasteners with a dry cloth
The tool is held by only part of its surface	One of the magnetic fasteners has come off or is lost; the body is deformed	Stop using the tool and contact the seller or service center
Compass legs spread apart during drawing	The hinge fastener has loosened	Tighten the hinge fastener until there is no free play
Compass does not leave a line	Chalk or marker fixed too deep in the holder; marker has dried out	Adjust the tip protrusion to 10–20 mm, replace the marker
Scale is poorly visible from across the classroom	Contamination of the scale surface; wearing off of the print due to abrasive cleaning	Wipe the scale with a damp cloth; if the print is worn off, contact the seller
The constructed line comes out uneven	The tool is attached to an uneven area of the board or at a panel joint	Move the tool to a flat section of the work surface

8. Storage and Transportation Conditions

- Store the set in a dry enclosed room at a temperature of not less than +5 °C and not more than +40 °C, and relative humidity of up to 80% at a temperature of +25 °C, without moisture condensation.
- Store the tools in a horizontal position or hanging; do not leave them leaning at an angle for long periods — this may cause the ruler to warp.
- Protect the product from dust, direct sunlight, impacts, vibration and the action of aggressive substances and their vapors.
- Transport the product in the original or a similar rigid packaging by any type of closed transport.
- Do not place heavy objects on the packaging with the product.
- The storage period before commissioning is unlimited provided that the stated 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:	Tool set for the classroom
Product model:	LABOTRIX GEOSSET G1
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