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› [MAGNA-TILES](#) /

› MAGNA-TILES Builder 32-Piece Magnetic Construction Set Instruction Manual

MAGNA-TILES 21632

MAGNA-TILES Builder 32-Piece Magnetic Construction Set Instruction Manual

Model: 21632

PRODUCT OVERVIEW

The MAGNA-TILES Builder 32-Piece Magnetic Construction Set is designed to foster imagination and STEAM learning. This set introduces the first-ever magnetic crane and road pieces, allowing for dynamic construction play. It is suitable for both home and classroom environments.



Figure 1: MAGNA-TILES Builder 32-Piece Set Packaging (Front)



Figure 2: MAGNA-TILES Builder 32-Piece Set Packaging (Back) with component list.

WHAT'S INCLUDED

The MAGNA-TILES Builder 32-Piece set contains the following components:

- 10 Road Squares
- 4 Road Quarter Circles
- 6 Small Squares
- 8 Small Rectangles (4 Bricks, 4 Cautions)
- 1 Spinner
- 1 Car Chassis
- 2 Extendable Cranes

SAFETY INFORMATION

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

WARNING: This product contains small magnets. Swallowed magnets can stick together across intestines causing serious infections and death. Seek immediate medical attention if magnets are swallowed or inhaled.

MAGNA-TILES pieces are constructed from food-grade, non-toxic MABS plastic, free from BPAs, phthalates, and latex. The magnets are designed for easy separation, ensuring safe and frustration-free building. Each piece features a signature lattice design to prevent cracking, enhancing durability for extended play.

SETUP AND ASSEMBLY

The MAGNA-TILES Builder set is designed for intuitive, instruction-free assembly. Simply connect the magnetic pieces to create various structures and vehicles.

1. **Unpack Components:** Carefully remove all 32 pieces from the packaging.
2. **Familiarize with Pieces:** Identify the different shapes: Road Squares, Road Quarter Circles, Small Squares, Small Rectangles (Bricks and Cautions), Spinner, Car Chassis, and Extendable Cranes.
3. **Connect Road Pieces:** Use the Road Squares and Road Quarter Circles to form various road layouts. The magnets allow for easy connection.
4. **Assemble Crane Vehicle:** Attach the Extendable Cranes to the Car Chassis using the magnetic connections. The cranes are designed to swivel and extend.
5. **Build Structures:** Utilize the Small Squares and Small Rectangles (Bricks and Cautions) to construct buildings, walls, or other elements for your construction site.



Figure 3: Child assembling road pieces and a crane vehicle.



Figure 4: Child building structures with magnetic tiles.

OPERATING INSTRUCTIONS

The MAGNA-TILES Builder set encourages open-ended, child-led play. There are no strict operating procedures, allowing for creative exploration.

- **Magnetic Connection:** All pieces connect magnetically. Simply bring two magnetic edges together to form a bond.
- **Crane Operation:** The Extendable Cranes can be swiveled and extended to simulate lifting and moving objects within your construction site.
- **Vehicle Movement:** The Car Chassis features wheels that allow it to roll smoothly on flat surfaces, transporting built structures or other toys.
- **Road System:** Create intricate road networks by connecting the various road pieces. These roads are compatible with the Car Chassis and other small toy vehicles.



Figure 5: Example of an assembled construction site with cranes and roads.



Figure 6: Demonstration of crane functionality.



Figure 7: Detailed view of the crane vehicle.

MAINTENANCE

To ensure the longevity and cleanliness of your MAGNA-TILES Builder set, follow these simple maintenance guidelines:

- **Cleaning:** Wipe pieces with a damp cloth and mild soap if necessary. Avoid harsh chemicals or abrasive cleaners.
- **Drying:** Ensure all pieces are completely dry before storing to prevent water spots or damage.
- **Storage:** Store the set in a clean, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect pieces for any signs of wear or damage. Discontinue use of any broken pieces.

TROUBLESHOOTING

MAGNA-TILES are designed for durability and ease of use. Should you encounter any issues, consider the following:

Problem	Possible Cause	Solution
Pieces not connecting strongly.	Magnets may be misaligned or obstructed.	Ensure the magnetic edges are clean and directly touching. Rotate pieces to find the strongest magnetic pull.
Pieces appear cloudy or dirty.	Surface smudges or dust accumulation.	Wipe with a soft, damp cloth. For stubborn marks, use a small amount of mild soap and rinse thoroughly before drying.
Cranes or vehicle wheels not moving smoothly.	Debris or friction in moving parts.	Check for any small debris obstructing the movement. Ensure parts are not forced beyond their intended range of motion.

SPECIFICATIONS

Feature	Detail
Product Name	MAGNA-TILES Builder 32-Piece Magnetic Construction Set
Model Number	21632
Brand	MAGNA-TILES
Number of Pieces	32
Product Dimensions	12.6 x 2.56 x 12.01 inches
Item Weight	2.72 pounds
Recommended Age	3 years and up
Material	Food-grade, non-toxic MABS plastic (BPA, phthalate, and latex-free)
Release Date	November 1, 2021

WARRANTY AND SUPPORT

MAGNA-TILES products are built to withstand countless hours of playtime. For specific warranty information or support inquiries, please refer to the official MAGNA-TILES website or contact their customer service directly. For additional information and resources, visit the [MAGNA-TILES Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question