PRODUCT AND CONSUMER WARNING

CHOCKING HAZARD: This product contains small parts and is not intended for children under 3.

- This product is intended for users over the age of 8.
- To avoid choking, keep small parts away from children.
- Use caution, this product contains parts with sharp edges.
- Only insert the steel marbles into the elevator to avoid damage to the product.
Keep parts together to avoid misplacing them.

**PARTS INCLUDED**

**ARM COMPONENTS**

- Arm: 5 PCS
- Arm Sheath: 5 PCS
- Arm Holder A: 5 PCS
- Arm Holder B: 5 PCS
- Arm Wrench: 5 PCS

**BASE COMPONENTS**

- Base: 3 PCS
- Base Holder A: 2 PCS
- Base Holder B: 2 PCS

**LOOPS, TURNS, AND SPLIT COMPONENTS**

- Corner A: 3 PCS
- Corner B: 3 PCS
- Rail Splitter: 1 PCS
- Corner Stand: 6 PCS
- Loop: 1 PCS
- Loop Stand: 1 PCS
- Rail Clip: 29 PCS

**ELEVATOR COMPONENTS**

- Gear Box: 1 PC
- Shaft (300mm): 9 PCS
- 12 PCS Elevator Ring
- 3 PCS Elevator Cover
- 1 PC Elevator Stand
- 3 PCS Gear Box Stand
- 1 PC

**RAIL COMPONENTS**

- Rail Joining: 2 PCS
- Steel Marble: 2 PCS
- Rail: 5000 mm

**REQUIRED TOOLS & ITEMS (NOT INCLUDED)**

- Wire Cutters or Utility Scissors
- Pen or Marker
- 1 battery - size AA
- Ruler (in centimeters)
1 PREPARE THE COASTER COMPONENTS

A ARMS

Step 1: Attach 1 Arm Holder A and 1 Arm Holder B with 1 Arm Sheath. Insert 1 Arm into Arm Holder A.

Step 2: Find the Arm and Arm Wrench. Attach as shown in step 3.

Step 3: Turn the Arm and Arm Wrench counter-clockwise to lock.

B LOOP & TURNS

Prepare the Loop: Find 2 Rail Clips and attach them to both sides of the Loop. Find the Loop Stand and attach it to the bottom of the Loop.

Prepare the Turns: Find 2 Rail Clips and attach them to both sides of the Turn. Repeat this process with all 6 Turns.

NOTE:
Corner A and Corner B are distinguished by the lettering on the bottoms, as shown below.

C RAIL SPLITER

Prepare the Rail Splitter: Find the Rail Splitter and 3 Rail Clips. Press the Rail Clips on each of the Rail Splitter openings. Set aside for coaster construction.
Step 1: Find the Gear Box and attach the shaft.

Step 2: Find the Elevator Corkscrew pieces and connect each piece along the shaft.

Step 3: Once the Corkscrew is built, attach 3 support shafts to the Gear Box.

Step 4: Connect 1 Rail Clip to each Elevator Ring. Make sure brackets on elevator ring are right side up.

Step 5: Place the 3 Elevator Rings onto the Shafts.

Step 6: Place the Elevator Cap onto the top of the elevator assembly.

Step 7: Attach the 3 Elevator Guards to each of the Elevator Rings.

**NOTE:**
There should not be any space between the Gear Box and the Corkscrew. If the Corkscrew is not installed correctly the Elevator will not run.

**NOTE:**
The Steel Marble will fall out of the elevator if it enters too fast.
**BASE ASSEMBLY**

**Step 1:** Locate all 3 Base blocks and interlock together as shown below.

**Step 2:** Locate the Base Holder A and Base Holder B and attach them to the base blocks for a secure hold.

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**CONSTRUCT THE COASTER**

**BUILD THE COASTER SHAFTS**

**NOTE:**
Illustration of Shafts are 1:2.3 or (approximately 43%) of scale.

- **A**
  - 63 mm
  - 264 mm

- **B**
  - 159 mm
  - 204 mm

- **C**
  - 261 mm
  - 194 mm

- **D**
  - 240 mm
  - 199 mm

- **E**
  - 238 mm
  - 129 mm
**Step 1:** Attach Gear Box Stand to the Gear Box

- **Loop Part**
- **Shaft A**
- **Shaft B**
- **Shaft C**
- **Shaft D**
- **Shaft E**
**CUT THE RAIL TO SIZE**

**Step 1:** Measure each section and mark the cutting point with a pen.

**Step 2:** Cut each section according to your measurement making sure to cut at a 90 angle.

**Tip:** Cut longer rails slightly larger to be on the safe side. Longer rails can always be cut a bit shorter. This will help you to avoid having to recut and not having enough rail.

**NOTE:**

Illustration of rail lengths is 1:2.84 or (approximately 35%) of scale.
Corner Stability: To provide extra stability on the Corners, place Corner Stands directly below the Corners.

Rail Joining for Custom Designs: To adjust your designs with the rails, use the Rail Joinings to increase the length of your rail sections.

Connecting Rails to Arms: To install the Rails, press them into the Arm as shown. You should hear a click sound when the Rail is locked in place.

Angling the Arms: Install the Arms at the angle of the incline the Rails will travel along.

Rail and Corner Connections: Cutting the rail at a 45° angle where it meets a Corner. This will help smooth out the transition as the steel marble flies around the track.

Railroad Stability: On the longer segments of Rail, attach Rail Ties as needed to maintain stability along the track.

Smoothing the Elevator Exit: When installing the elevator exit rails, pull the rails close to the Elevator Helix to ensure the steel marble enters to the roller coaster easily.

Smooth Rails for Efficient Travel: Make sure the Rails connect smoothly and are free of bumps or kinks.
CONNECT THE RAILS (STEPS 1-3)

Use the following illustrations and pictures as references for attaching the rails to the structure.

Step 1: Connect both A Rail sections between the Loop and the back bottom corner of Shaft A.
Step 2: Connect both G Rail Sections between the entrance of the loop and the front section of the Split.
Step 3: Connect both I Rail sections between the bottom entrance of the elevator and the bottom front corner of Shaft A.
B CONNECT THE RAILS (STEPS 4-6)

Use the following illustrations and pictures as references for attaching the rails to the structure.

**Step 4:** Connect both J Rail sections between the back top corner of shaft A and the back top corner of Shaft E.

**Step 5:** Connect Both H Rail sections between the exit of the Elevator and the front top corner of Shaft A.

**Step 6:** Connect both B Rail sections between the front top corner of Shaft E and the single side of the Split.
CONNECT THE RAILS (STEPS 7-10)

Use the following illustrations and pictures as references for attaching the rails to the structure.

**Step 7:** Connect both D Rail sections to the corner of Shaft B and the back section of the Split.

**Step 8:** Connect both E Rail sections between the back corner of Shaft D and the back bottom corner of Shaft E.

**Step 9:** Connect both F Rail sections between the front corner of Shaft C and the front bottom corner of Shaft E.

**Step 10:** Connect both C Rail sections between the front corner of Shaft D and the middle entrance of the Elevator.