

THE PATENTED CAR TURNTABLE



From the crate to the *first*
rotation.

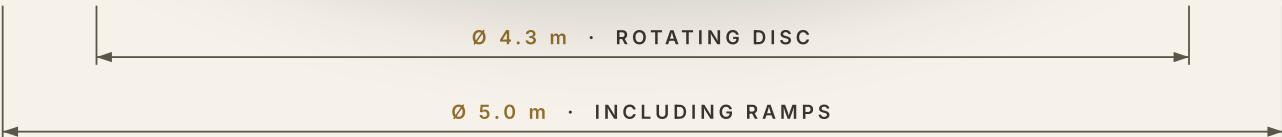
WELCOME

Everything you need is already *in the crate*.

This manual takes your YilPlat car turntable from a packed crate to a silently rotating vehicle in **eleven steps**. No pit is excavated, no anchor is drilled and no welding takes place on site: the platform is assembled on the existing floor with hand tools, then simply switched on. A **6 × 6 m floor area is all it needs** — the rotating disc measures **Ø 4.3 m**, or **Ø 5.0 m** including the ramps.

Read the manual in full before starting, lay out every component within reach, and follow the steps in order — each one prepares the geometry for the next. YilPlat recommends installation by **two technicians**. Should any question arise at any point, our support team responds within one working day.

11	4 × 24 V	220 V	3 m	6 × 6 m	2
PLATFORM PANELS	DRIVE MOTORS	POWER SUPPLY	WALL CLEARANCE	FLOOR AREA IS ENOUGH	BLUETOOTH REMOTES



THE COMPLETE ASSEMBLY · HUB, EIGHT ARMS, DRIVE RING, ELEVEN-PANEL DECK · 8.5 CM TALL

INVENTORY

One crate. Hand tools. *Eleven steps.*

STRUCTURE

Central hub — base, upper plate & tapered bearing	I
Arms (A pieces) — radial tread-band supports	8
Inner arcs (B pieces) with inner plates	8
Outer arcs (C pieces) with external plates	8
Platform panels — 9 male–female · 1 male–male · 1 female–female	II
Hub cover — bonded with silicone	I
Ascent ramps — reinforced & standard	set

DRIVE & CONTROL

Drive motors , 24 V	4
Wheel supports & rubber stops	4 + 4
Control panel — LCD, 220 V supply	I
Bluetooth remote controls	2
Flexible cable, Wago connectors, sleeves, junction box, cable-tie mounts & ties	set
BTR (hex-socket) & crosshead screws, all stations	set

TOOLS REQUIRED

- Hex keys for the supplied **BTR screws**
- Crosshead screwdriver** or cordless driver
- 13 mm wrench** — motor-stop adjustment
- Silicone** of your choice — hub cover
- Tape measure — 3 m clearance check

THE ELEVEN STEPS

01	Preparation	04
02	The central hub	05
03	The tread bands	06
04	The drive motors	08
05	The platform panels	10
06	Motor adjustment	12
07	Wiring	13
08	The ascent ramps	14
09	The control panel	15
10	Speed adjustment	16
11	The remote controls	17

SAFETY FIRST

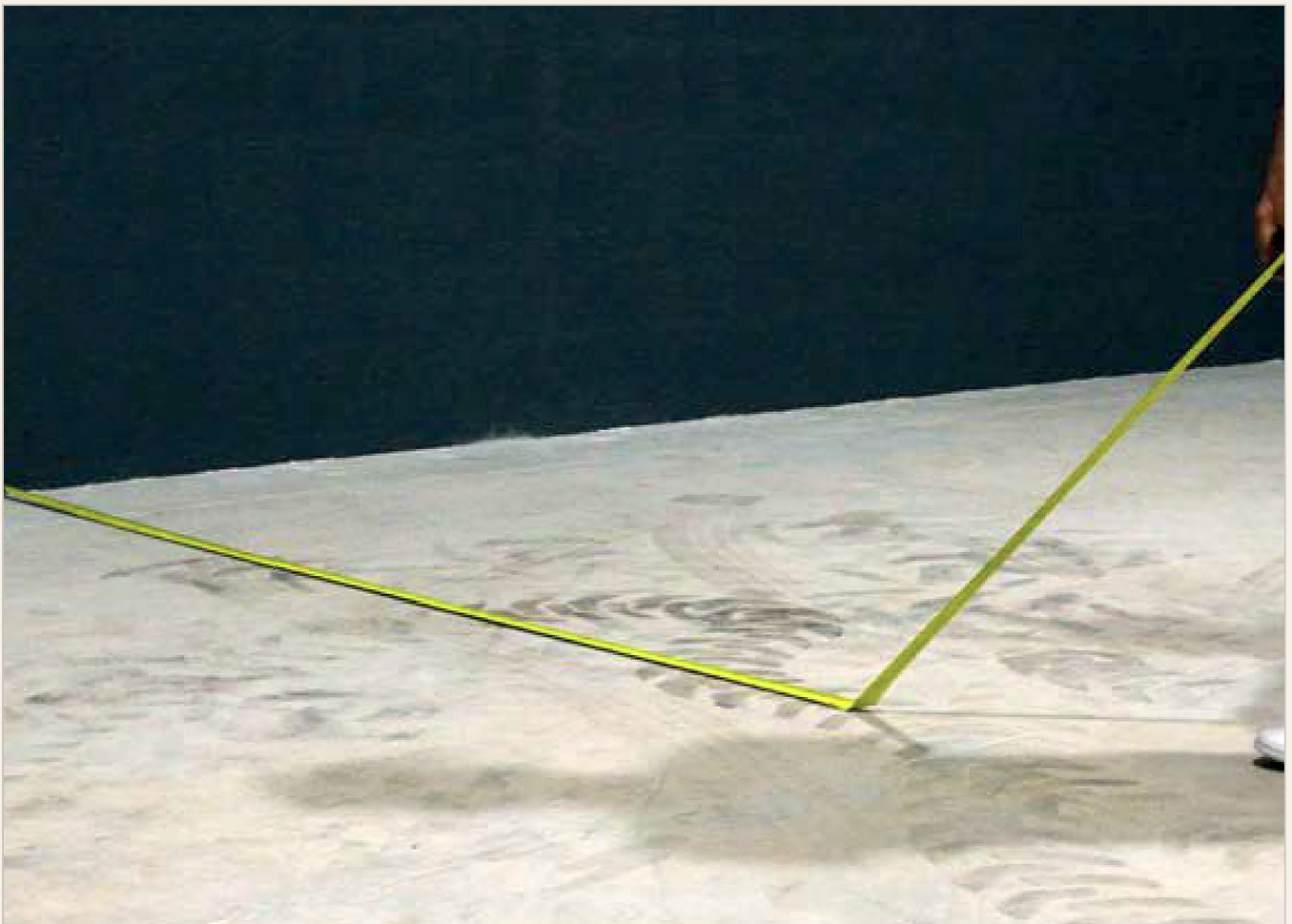
Safety, care and manual operation during a power outage are covered on **page 18**. Read it before the first rotation.

STEP ONE · PREPARATION

OI

 Give the platform *room to turn*.

- a Make sure you have **all the necessary components within reach** — check them against the inventory on page 3 before the first screw is turned.
- b Prepare the installation location. Ensure a **minimum clearance of three metres** between the central hub and the wall — a **6 × 6 m floor area** is sufficient for any vehicle to rotate freely.



MARKING OUT · THE CENTRE POINT IS CONFIRMED BY MEASURING FROM THE WALL TO THE HUB POSITION

CHECKPOINT

≥ 3 m from hub centre to the wall · 6 × 6 m floor area.
Confirm both before assembly begins, not after — the disc is Ø 4.3 m, or Ø 5.0 m including the ramps.

ON THE DAY

Two technicians, hand tools. Lay the components out in step order around the marked centre — the whole assembly then flows without a single trip back to the crate.

STEP TWO · ASSEMBLY OF THE CENTRAL HUB

O2

 The bearing is *the heart* of the platform.

a Insert the **bearing** at the designated location on the **central hub**.

b Position the **upper part of the hub** over the bearing.



2A-I · THE TAPERED BEARING SEATED AT THE HUB CENTRE



2A-II · CHECK THAT THE BEARING SITS FULLY HOME



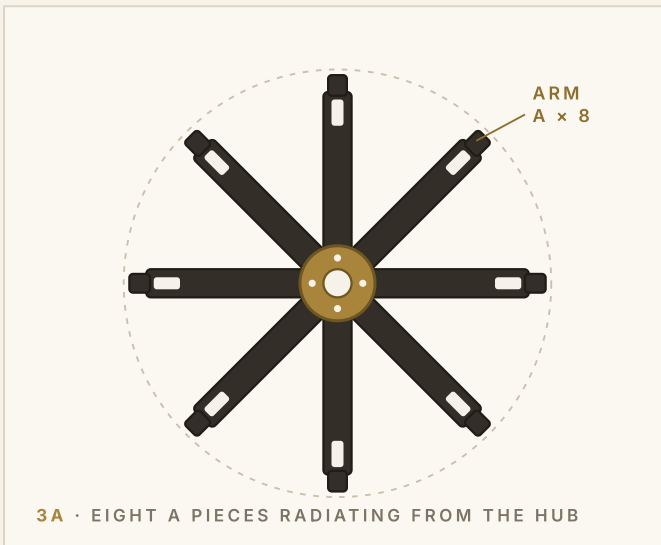
2B · THE UPPER HUB PLATE LOWERED ONTO THE BEARING

STEP THREE · ASSEMBLY OF THE TREAD BANDS · I

03

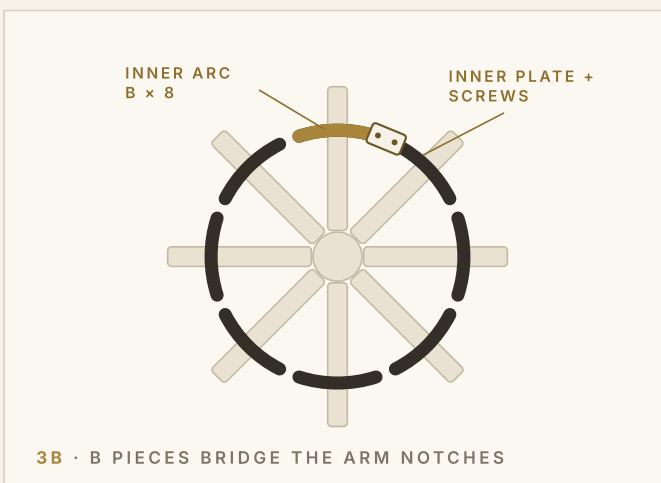
Eight arms, eight arcs — *a perfect circle* takes shape.

- a** Place the **eight arms (A pieces)** around the central hub in the designated slots, **under the base**, and secure them with the **BTR screws**.



3A · ARMS SECURED BENEATH THE BASE WITH BTR SCREWS

- b** Assemble the **eight inner arcs (B pieces)** between the notches of the arms, using the **inner plates** and the provided **crosshead screws**.



3B · INNER PLATES JOINED WITH CROSSHEAD SCREWS

CHECKPOINT

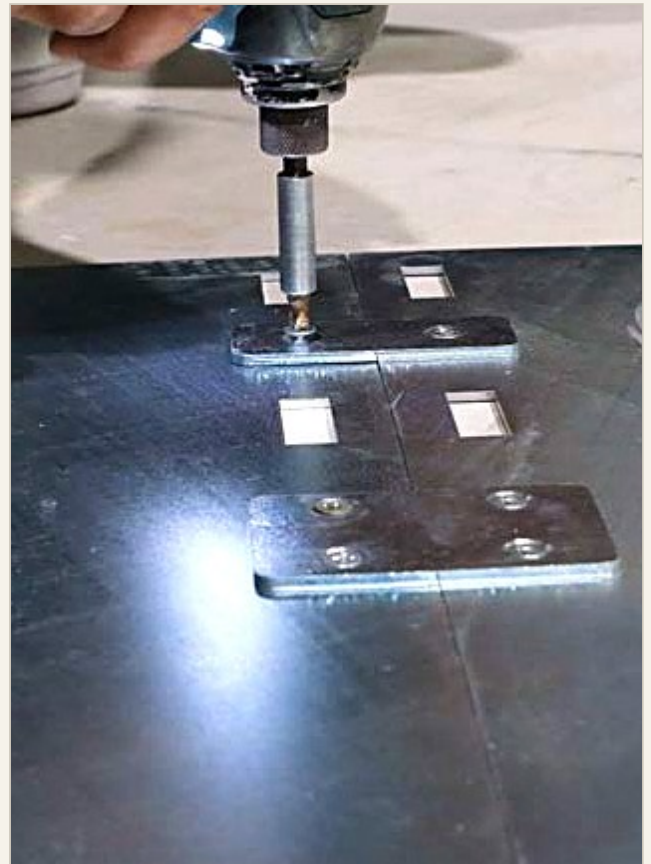
8 arms · 8 inner arcs, every screw fitted. The tread bands are the rails the drive wheels will run on — complete and check this ring before anything is laid on top of it.

STEP THREE · ASSEMBLY OF THE TREAD BANDS · II

03

Orientation decides everything — *holes to the right.*

- c Assemble the **outer arcs (C pieces)** using the **external plates** and the provided crosshead screws. **Pay attention to the orientation:** once flat, the **four screw holes must be on the right side** of each outer arc.
- d Secure the outer arcs together with **two plates** — one with **four holes** and the other with **two holes**.



3D · ADJOINING OUTER ARCS JOINED BY THE 4-HOLE AND 2-HOLE PLATES

IMPORTANT

If the four holes sit on the **left**, the arc is upside down. Reversed arcs will misalign the drive stations in Step 04 — check every piece before screwing it down.

STEP FOUR · INSTALLATION OF THE MOTORS · I

O4

Four motors, placed *in a cross*.

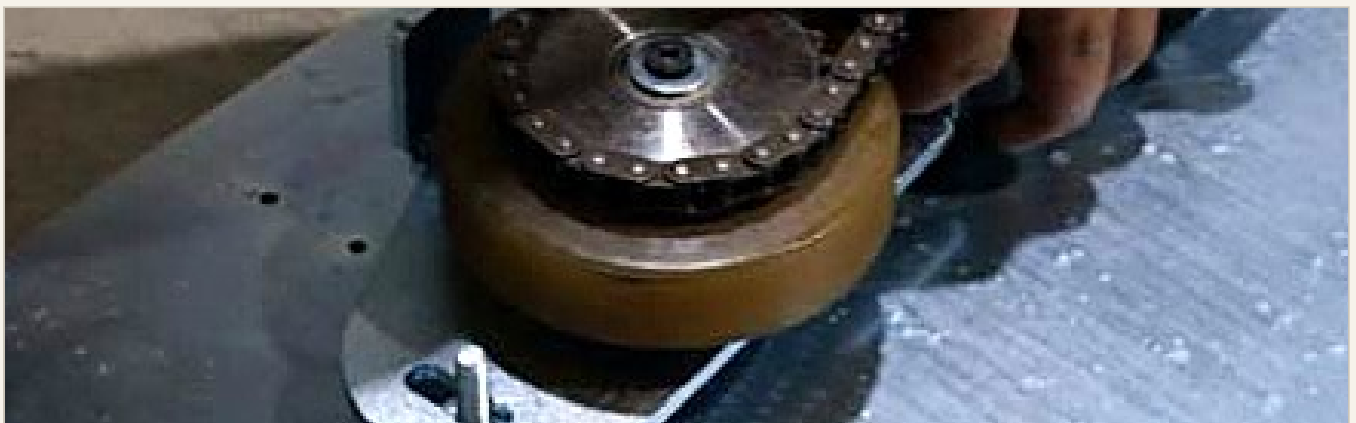
- a** Use the **four 24 V motors**, **four wheel supports** and **four stops**. Position the motors in a **cross arrangement (recommended)** — or grouped in a free-passage (arc) layout where access requires it.
- b** Start by fixing the **wheel supports** to the designated locations on the outer arc, using **four BTR screws** each.



4B-I · WHEEL-SUPPORT STUD FIXED TO THE OUTER ARC

WHY THE CROSS

Opposed drive stations share the load evenly around the ring. Choose the **free-passage (arc)** layout only when one side of the platform must stay completely clear.



4B-II · A DRIVE STATION IN POSITION ON THE OUTER ARC

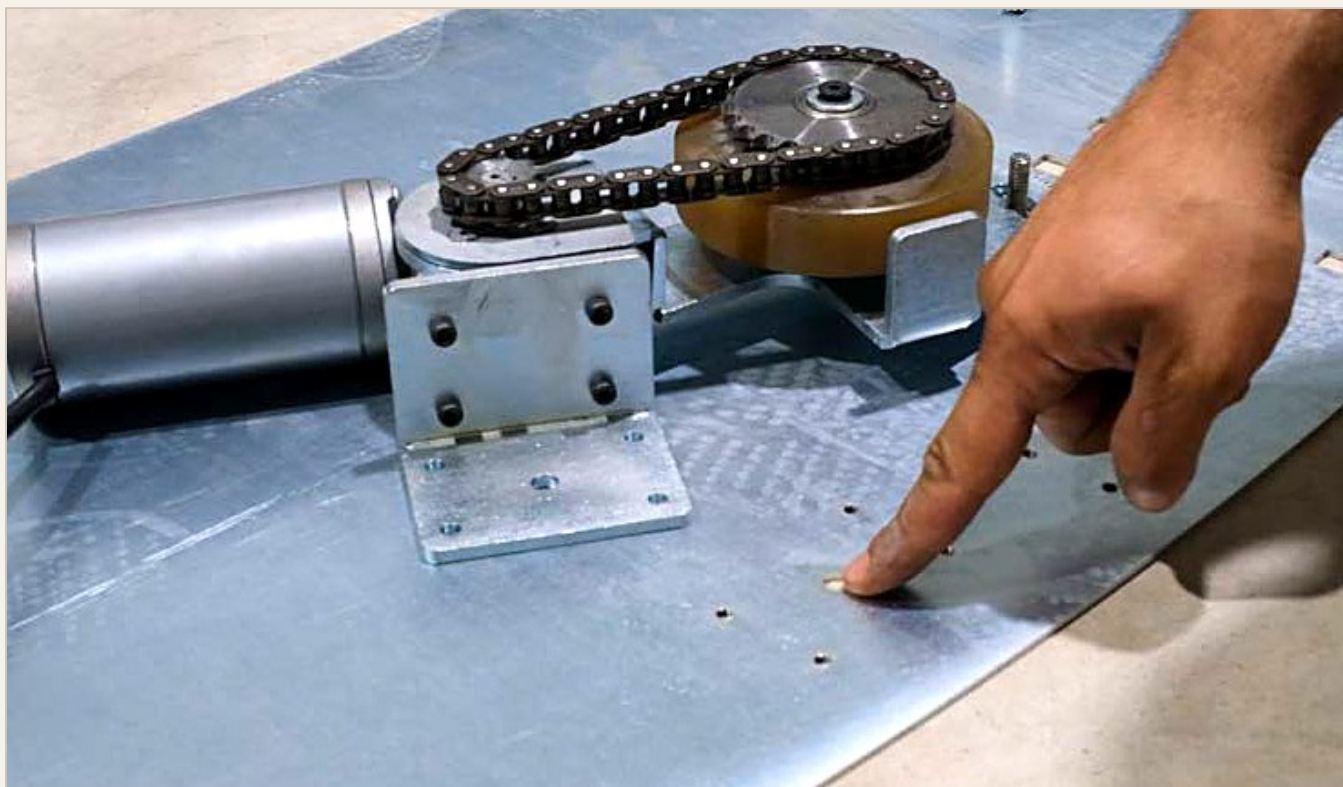
STEP FOUR · INSTALLATION OF THE MOTORS · II

04

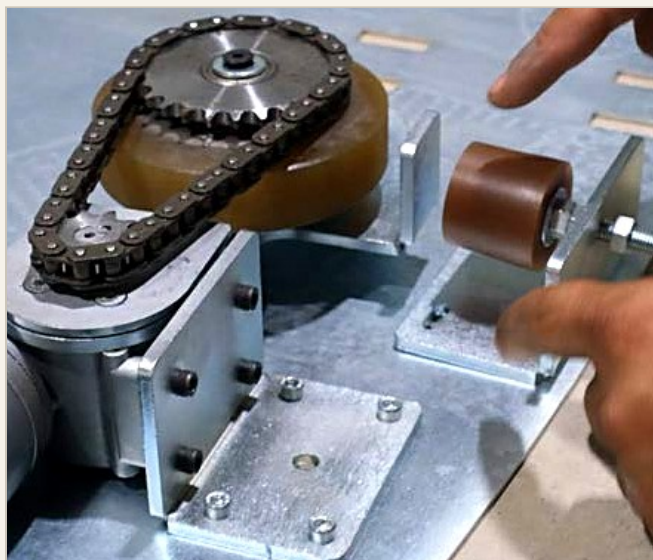
 Motor, then stop — *four BTR screws* each.

c Next, secure the **motors** to the designated locations on the outer arc using **four BTR screws**.

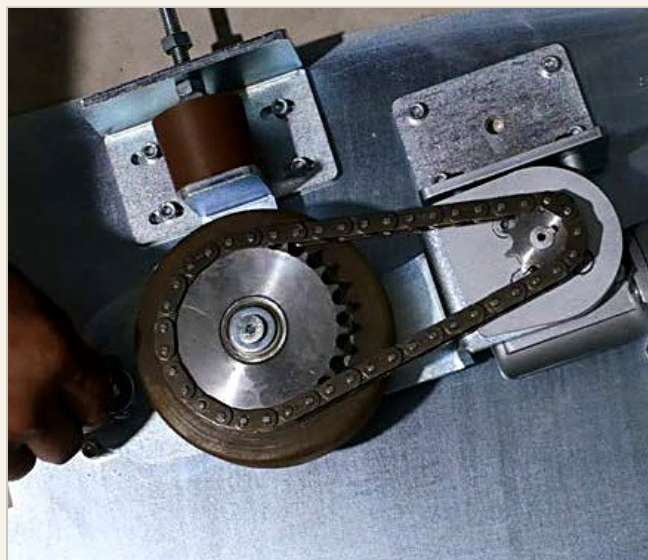
d Finally, attach the **stops** to the designated locations on the outer arc using **four BTR screws**.



4C · THE DRIVE MOTOR ALIGNED OVER ITS MOUNTING HOLES



4D-I · THE RUBBER STOP BESIDE ITS DRIVE STATION



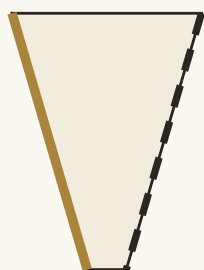
4D-II · COMPLETED STATION — MOTOR, WHEEL AND STOP

STEP FIVE · ASSEMBLY OF THE PLATFORM · I

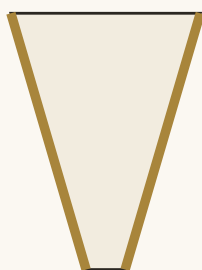
05

 Eleven panels. *Three kinds of edge.*

- a The platform consists of **eleven panels**: **nine male-female**, **one male-male** and **one female-female**. Identify all three types before starting.
- b Begin with the **male-female panels**. Secure them to the **central hub** using the provided BTR screws.



MALE – FEMALE × 9



MALE – MALE × 1

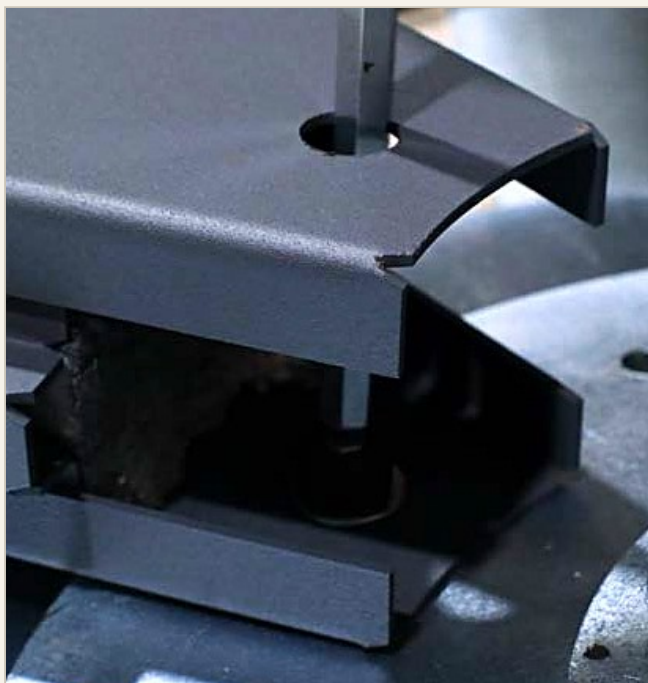


FEMALE – FEMALE × 1

KEY · SOLID GOLD = MALE EDGE · DASHED DARK = FEMALE EDGE



5B·I · A MALE-FEMALE PANEL OFFERED UP TO THE HUB



5B·II · THE INTERLOCKING EDGES DRAWN TOGETHER

STEP FIVE · ASSEMBLY OF THE PLATFORM · II

05

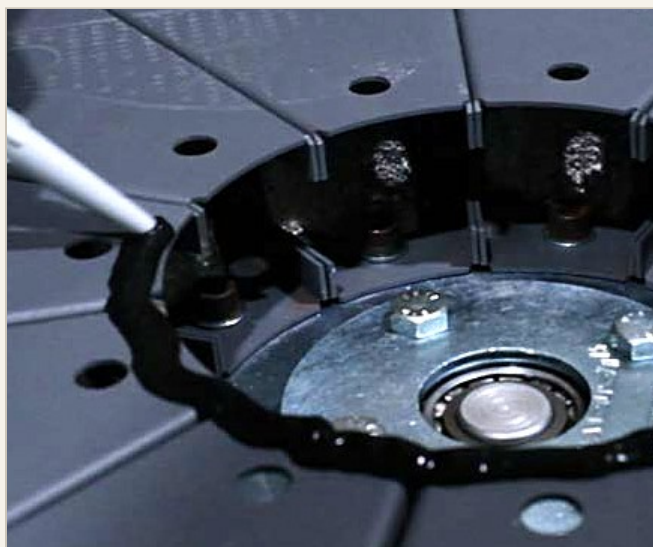
 Close the circle, *crown the hub*.

c Continue with the **male–male panel**. Finish last with the **female–female panel** — it closes the ring.

d Next, glue the **hub cover** in place using a **silicone of your choice**.



5C · THE FINAL PANELS DROPPED INTO SEQUENCE AROUND THE DECK



5D-I · THE HUB APERTURE BEFORE THE COVER IS BONDED



5D-II · HUB COVER PRESSED ONTO ITS SILICONE BED

06

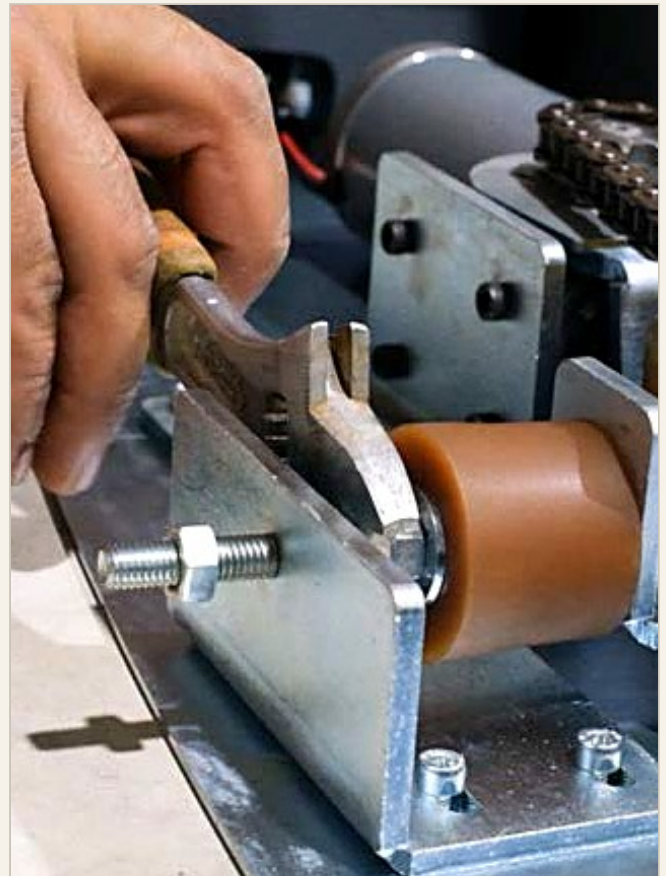
STEP SIX · MOTOR ADJUSTMENT

Five turns to *balanced tension*.

- a Press the **rubber stop** against the wall of the panel. Then tighten the stop using a **13 mm wrench**, making **five complete turns**.
- b Repeat on all four motors to achieve balanced tension around the ring.



6A·I · THE STOP PRESSED HOME AGAINST THE PANEL WALL



6A·II · FIVE FULL TURNS WITH THE 13 MM WRENCH

CHECKPOINT

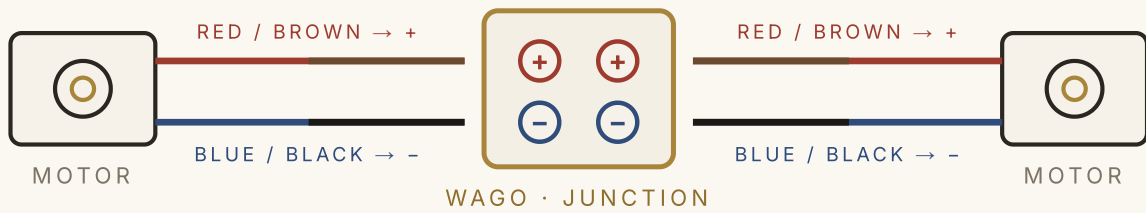
13 mm × 5 turns × 4 stations. Equal preload at every station is what keeps the rotation silent and the drive wheels wearing evenly. If one wheel slips or squeals later, return to this step first.

STEP SEVEN · WIRING

07

Red to *plus*, blue to *minus*.

- a Connect the motors using the provided **flexible cable** and **Wago connectors**. Connect the **red or brown** conductor to the **positive** pole of each motor, and the **blue or black** conductor to the **negative** pole.



7A · POLARITY AT EVERY DRIVE STATION

- b Ensure the cables run inside **sleeves** and the connectors sit in a **junction box** — everything held in place with **cable-tie mounts and ties**.

IMPORTANT

Reversed polarity reverses the wheel. A station wired backwards will fight the other three. Double-check every Wago before closing the junction box.



7B · SLEEVED CABLES MEETING THE WAGOS INSIDE THE JUNCTION BOX

STEP EIGHT · INSTALLATION OF THE ASCENT RAMPS

08

 Reinforced where *the vehicle climbs.*

- a Place the **reinforced ramps** at the **main passage area** — the line along which the vehicle drives on and off.
- b Use the **standard (non-reinforced) ramps** at the **motor stations**.
- c Ensure each ramp is properly positioned by checking the **cable passage** and the **anti-lifting notches**.

**8A** · REINFORCED RAMP — MAIN PASSAGE ONLY**8B** · STANDARD RAMP — MOTOR STATIONS**8C** · THE SLEEVED CABLE SEATED IN ITS PASSAGE, NOTCHES ENGAGED

STEP NINE · INSTALLATION OF THE CONTROL PANEL

09

 One wall, one metre, *220 volts*.

a The control panel is connected to a **220 V power supply**. Mount it on a wall at a **minimum height of one metre**.

b Connect the **motor cables** to the control panel.



9A · THE PANEL LEVELLED AND OFFERED UP TO THE WALL



9B·I · KEYED MOTOR CONNECTOR — SOCKET SIDE



9B·II · PLUG SEATED AND LOCKED

STEP TEN · SPEED ADJUSTMENT

IO

 Turn the red knob until *the beeping stops*.

- a Before using the remotes, press the **'1' button below the LCD screen** to enter motor-speed adjustment.
- b Adjust the speed using the **red knob**.
- c Adjust **until the beeping stops**, then return the '1' button **to zero**. The speed is now **saved on the remotes** as well.

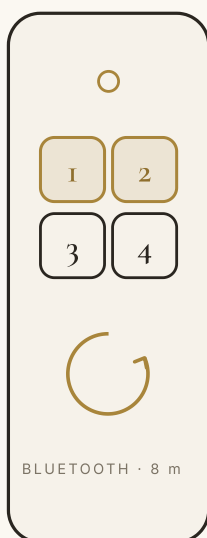
**10A** · THE LCD WITH THE '1' BUTTON AND KNOBS BENEATH**10B** · FINE-SETTING THE ROTATION SPEED ON THE RED KNOB**CHECKPOINT**

Silence means set. The beep is the panel asking for a valid speed; when it stops, the value is locked and mirrored to both remote controls automatically.

STEP ELEVEN · USING THE REMOTE CONTROLS

II The showroom, *in your hand*.

The two provided remotes operate via **Bluetooth up to 8 metres**. To stop the platform, press the **same button used to start** the rotation — and always **wait for a complete stop** before starting a reverse rotation.



THE REMOTE · FOUR BUTTONS, ONE HABIT

BUTTON MAP

'1' — continuous rotation, clockwise	↻
'2' — continuous rotation, anticlockwise	↺
'3' · '4' — small increments right or left, to fine-tune the photo composition	±

OPERATING RULE

Stop with the button that started it. Then let the platform come fully to rest before reversing direction — momentum, not the motors, sets the pace of a five-tonne stage.



IN SERVICE · ONE PRESS, AND THE COMPOSITION COMES TO YOU

READ BEFORE THE FIRST ROTATION

Respect the platform, and it will serve *for decades*.

DAILY OPERATION

i Drive the vehicle onto the platform along the **originally planned access line**. The reinforced ramps are placed for that line — keep to it.

ii Maintain a **slow and steady speed** without sudden stops, to avoid leaving rubber marks or skidding on the ramps.

iii **Avoid driving wet vehicles onto the platform**, or using it when puddles are present. Clean with a damp cloth as needed.

iv **Keep clear of moving parts** while the platform is in operation.

v **Children and unauthorised persons** must not use the platform without supervision.

POWER OUTAGE · MANUAL USE

i The platform can be used **manually**: loosen the motor stops and **move the wheels away from the panel wall** — the platform will rotate freely.

ii Once power is restored, **return the motors to their initial position**.

INSPECTION & SERVICE

i Perform a **regular visual inspection** of all components for signs of damage or wear.

ii Follow the **safety instructions supplied with your equipment**, and refer to the manual specific to your model.

iii In case of any issue or doubt, **contact YilPlat customer service** — we would rather answer a small question than repair a large one.

We hope this manual helps you install, use and maintain your car turntable safely — enjoy every rotation.

ENQUIRIES & AFTER-SALES

A question during installation? *One message away.*

Photograph the step you are on and send it with your question — our technical team answers **within one working day**, in the language of your dealer network.

MANUFACTURING HQ

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