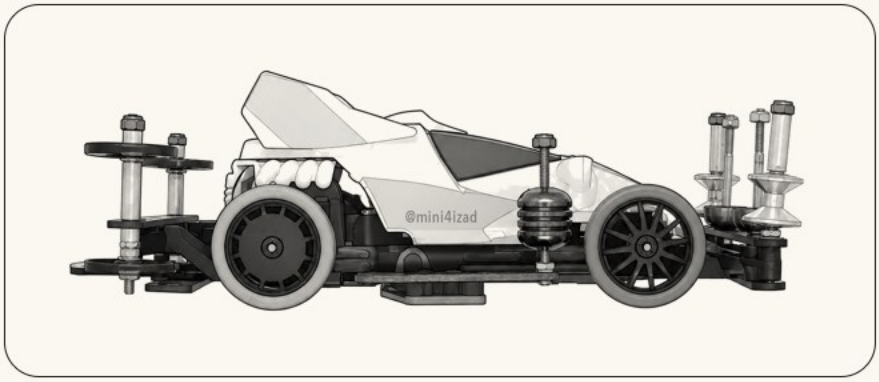


B-MAX SETUP BOOK

The Super-II, built part by part.

B-MAX セッティングガイド

@MINI4IZAD · GARAGE NOTES · V1.1 · UPDATED 25 OCT 2026

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No cuts, just choices · the car at a glance

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No cuts. Just choices.

B-MAX takes the saw out of Mini 4WD. What's left is the part you pick, the hole you put it in, and your head on race day.

The B-MAX rulebook allows only Tamiya parts: Mini 4WD, Radio 4WD and Dangun parts. Almost nothing on the car may change shape. No lightening holes, no cutting, no home-made chassis. The exceptions are small and precise: countersinking existing holes in plates and the chassis, and running the shaft right through the wheel.

So the speed comes from choices. This book walks through one complete car, a Super-II built the way B-MAX racers build them, part by part, in the order you'd fit them.

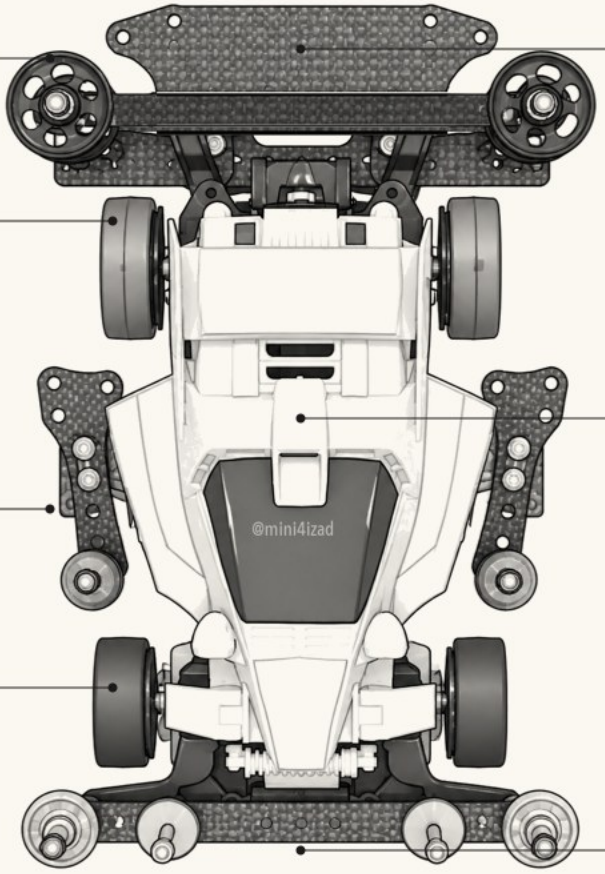
Every part is a Tamiya part, regular line wherever one exists. The car in the drawings is my own Emperor, and where it runs a limited edition, the page names the regular part instead.

Each page gives the part, why it's on the car, what the rules let you do to it, and the common alternatives. Prices are Tamiya Japan list prices with tax, checked on 22 October 2026.

> THE SPIRIT OF B-MAX GP · REGULATION VER5.0, IN OUR WORDS
>
> Inside basically no-modification rules, on a course the organiser designed, every racer competes in the spirit of fair play, with their head and their technique.

The whole build, on one page.

Six sections, front to back of the book. Each label points to where its parts live on the car.



03 · REAR ROLLERS
95582 ×2 sets
upper + lower

05 · REAR TYRE
15542 super hard
26 mm

04 · SIDES
94835 + 95715
15401 heavy dampers

05 · FRONT TYRE
15534 low friction
72 mm shafts

03 · REAR
15497 + 15242 plates
15550 brake + 15492

01 · BASE
Carbon Super-II
19434 / 19435

02 · FRONT
95433 stay · 15193 brake bar
15398 rollers · 15392 dampers

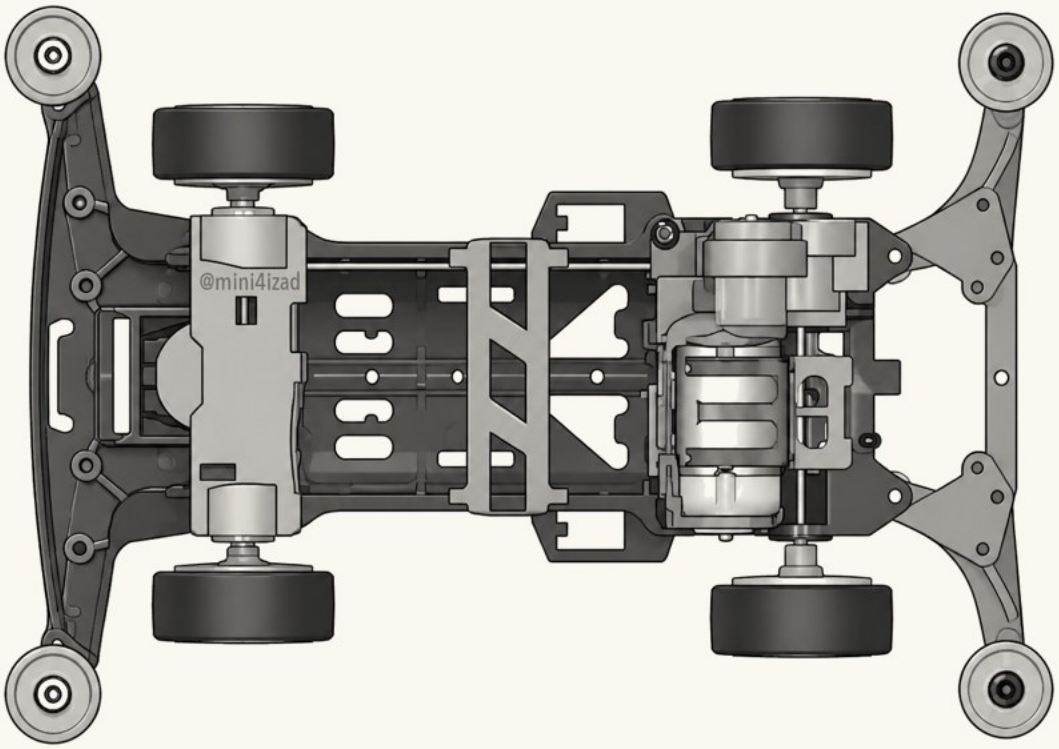
REAR AT THE TOP · FRONT AT THE BOTTOM

FIG. 1 · THE EMPEROR, SUPER-II, TOP VIEW · DRAWING @MINI4IZAD

SECTION 01

THE BASE

シャーシと駆動系



Everything bolts to this. Pick the stiff one, keep the drive clean, and power it inside the rules.

CHASSIS 06 DRIVETRAIN 07 GEAR OPTIONS 08 POWER 09

Carbon Super-II カーボンスーパーII

Start from a Premium kit, not a standard one. Its chassis is the stiff one.

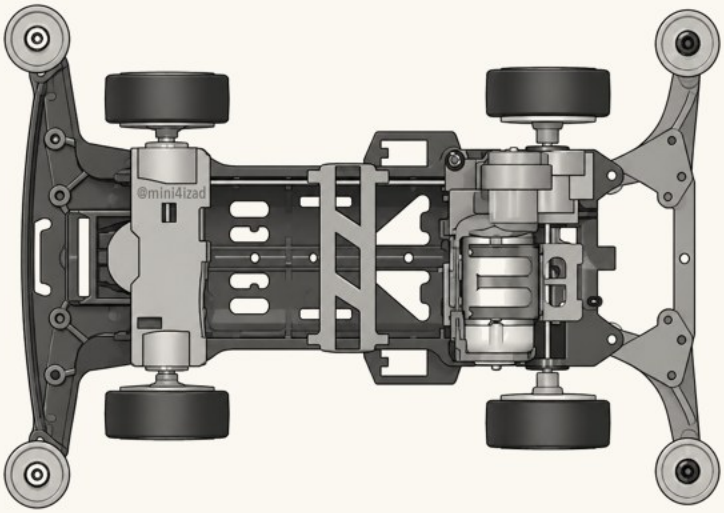


FIG. 2 · SUPER-II CHASSIS, PLAN VIEW · DRAWING @MINI4IZAD

Two Premium kits come on the Carbon Super-II: the Victory Magnum Premium (19434) and the Vanguard Sonic Premium (19435). Tamiya moulds this chassis in carbon-fibre reinforced nylon for rigidity and room to expand; only the battery holder and rear stay are ABS.

It arrives ready for setup work: a turn switch, a rear stay fixed at two points, a screwed-down rear gear cover, and extra mounting holes on the bumper and rear stay. Both kits include 13 mm plastic rollers and the 3.5:1 super-speed gears.

KITS	19434 · 19435
MATERIAL	PA-CF
LENGTH	150 mm
WIDTH	97 mm
GEARS IN KIT	3.5:1
RELEASED	Jun / Jul 2011

B-MAX RULING · §6 · Q&A CHASSIS

Not allowed: lightening holes, cutting, a home-made chassis, or new screw holes.

Allowed: countersinking existing holes, and drilling a screw hole through or opening it to 2 mm.

GARAGE NOTE · @MINI4IZAD

Racers start from these two kits for the PA-CF chassis: harder, and much less likely to break than the ABS Super-II.

Drivetrain 駆動系

Gears, shafts and bearings turn motor power into speed. Clean, smooth, legal.



FIG. 3 · BLACK COUNTER GEAR (4:1), FROM 15236 · DRAWING @MINI4IZAD

The kit already runs the 3.5:1 super-speed ratio; 15432 is that set for the Super-II and Super XX. 15438 adds a gear cover made only for the Super-II, which opens and locks with one lever, plus a reinforced 8T pinion and crown gear, two of each.

15390 is a machined gear shaft with a low-friction fluorine plating. 15519 HG bearings (6 × 2 × 2 mm) fit the drive shafts and counter gear with less play and lower rolling resistance. 15383 F grease carries PTFE particles in a fully synthetic base oil. The counter gear's colour marks the ratio: on single-shaft chassis black is 4:1 (Tamiya's 15236 set), while the kit's 3.5:1 counter is light blue.

GEAR SET	15432 · ¥308
COVER + GEARS	15438 · ¥374
GEAR SHAFT	15390 · ¥176
HG BEARINGS ×4	15519 · ¥1,540
GREASE	15383 · ¥550
BUDGET BEARING	15111 · ¥880

> B-MAX RULING · §6 · Q&A BEARINGS, GEARS
>
> **Required:** drive gears only in their specified combinations; the pinion is set by the chassis.
>
> **Allowed:** ball bearings, and gluing a gear to its shaft. **Not allowed:** anything that can throw grease onto the track.

Gear options ギヤ比の選択肢

Five ratios fit the Super-II. A smaller number means more top speed; a bigger one means more pull for technical courses. The colours tell them apart.

RATIO	COUNTER	SPUR	SET · WHEN TO USE IT
3.5:1 SUPER SPEED	 LIGHT BLUE	 YELLOW	**15432 · ¥308 · IN THIS BUILD** Top speed on fast, flat layouts. The kit's ratio.
3.7:1 HIGH SPEED EX	 GREEN	 YELLOW	**15434 · ¥352** Between the two: a little more pull, still quick.
4:1 HIGH SPEED	 BLACK	 LIGHT BROWN	**15236 · ¥330** Stronger out of corners and up slopes.
4.2:1 HIGH SPEED	 RED	 LIGHT BROWN	**15236 · ¥330** More torque again: technical courses, big climbs.
5:1 POWER	 BLUE	 YELLOW-GREEN	**15456 ONLY** Most torque, lowest top speed. Pairs with fast motors.

All five come in one box: 15456, the AR setting gear set (¥990), which lists the Super-II. Ratio = motor turns per tyre turn. B-MAX: gears only in their specified counter-and-spur pairs. Drawings @mini4izad, from 15456.

Power モーターと電池

B-MAX uses Tamiya's own motor list. On a Super-II that means single-shaft motors.

FAMILY	MOTORS YOU CAN RUN	NOTE
Kit	Normal motor	In the box
Tune	Torque-Tuned 2 · Rev-Tuned 2 · Atomic-Tuned 2	Also the original Tuned versions
Dash	Light-Dash · Hyper-Dash 3 · Power-Dash · Sprint-Dash	Also Hyper-Dash 2
Other	Hyper-Mini	Allowed
PRO	Not for Super-II	PRO motors are for ME, MA and MS

B-MAX confirms that Dash motors are allowed. What it bans is a motor taken apart: parts from a disassembled motor can't be used, and Tamiya treats changing the windings, or marks on the end-cap tabs, as tampering.

15421 gold-plates the Super-II battery terminals. Tamiya says the plating resists oxidation at the contacts, so the electrics need less upkeep.

TERMINALS	15421 · ¥330
SHAFT TYPE	Single
BATTERIES	Tamiya AA ×2

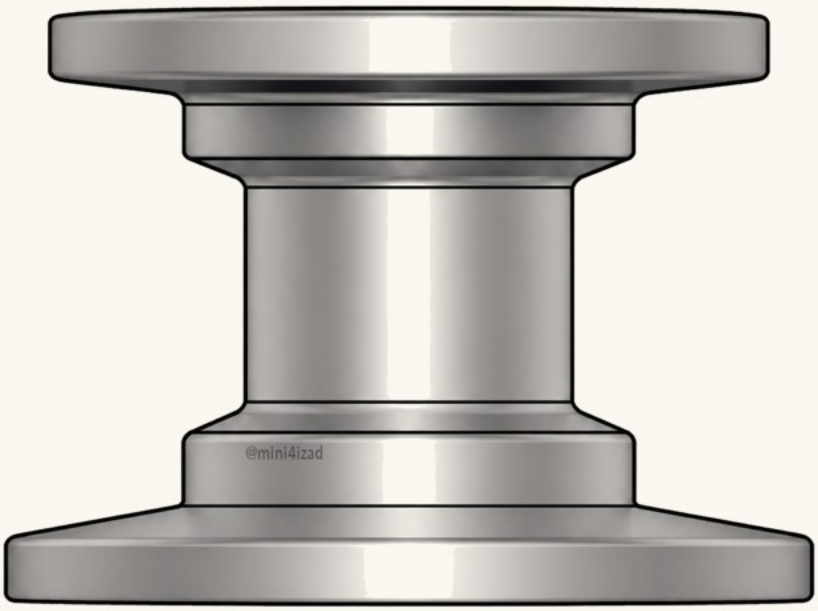
> B-MAX RULING · §6 · Q&A MOTOR
>
> Terminals: kit or grade-up part, fitted as the instructions show. No soldering, no doubled plates. Batteries only in the specified direction.

> EVENT NOTE · TAMIYA MINI 4WD BOOK, 2026
>
> Some events narrow the list. At Japan Cup 2026, the Junior and Trial classes allow only the Normal and Tune-series motors. Check the event rules.

SECTION 02

THE FRONT

フロント



The front meets the fence first. Stiff plate, a double roller that catches the car when it leans, and weight that settles it after a jump.

FRONT PLATES **11** DOUBLE ROLLERS **12** MASS DAMPERS **13**

Front plates フロントステー

Two plates at the front: a curved carbon stay for the rollers on top, a straight bar underneath for the brake.

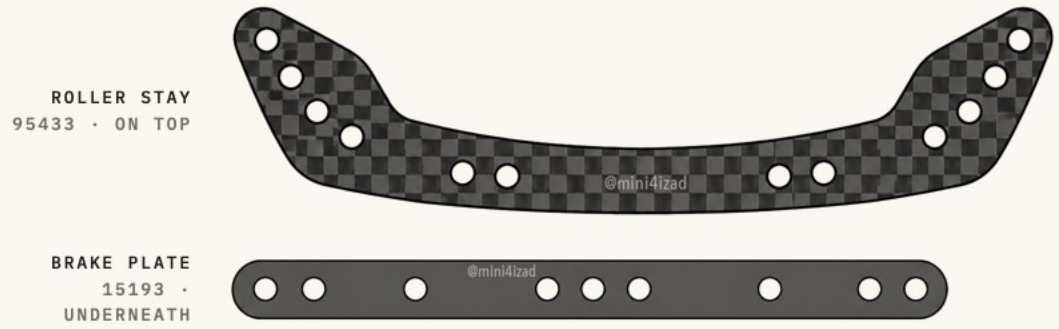


FIG. 4 · 95433 HG CARBON FRONT STAY, FULL-COWL TYPE · 15193 FRP REINFORCING PLATE · DRAWINGS @MINI4IZAD, PRINT LEFT OFF

The roller stay is 95433, Tamiya's HG carbon front stay for full-cowl cars: 1.5 mm carbon, light and stiff, with holes for 9, 13 and 19 mm rollers. Tamiya says it fits a full-cowl car without cutting the body, and the Super-II is on its list. The Emperor runs 95674, a silver 30th-anniversary edition of the same stay.

Under the bumper goes 15193, the straight FRP bar racers call the popsicle stick: 91 mm long, 7 mm wide. On a Super-II B-MAX car it carries the front brake sponge, countersunk and held with 6 mm countersunk screws so nothing hangs below. 15495 is the HG carbon version.

STAY	95433 · ¥1,034
BRAKE BAR	15193 · ¥220
BAR SIZE	91 × 7 mm
HG BAR	15495 · ¥1,210
MATERIAL	Carbon · FRP

B-MAX RULING · §6 · Q&A PLATES

Allowed: carbon plates; glue soaked in to toughen them; plates glued together; countersinking existing holes.

Not allowed: tapered edges, or any plate that wobbles.

GARAGE NOTE · SUPER-II B-MAX BUILD, RIONCH.COM, NOV 2024

The popsicle stick is the Super-II front brake most racers run: cheap, straight, and easy to countersink.

Double rollers 2段アルミローラー

Two rollers in one piece. The bottom one runs the fence; the top one saves the car when it leans.



FIG. 5 · HOW A 13-12 MM DOUBLE ROLLER WORKS

Tamiya machines 15398 as one aluminium piece: a 13 mm roller with a 12 mm roller above it. Normally the 13 mm touches the fence. When the car tilts in a corner, the 12 mm touches instead and stops the car rolling over. Four 520 bearings come in the set.

This is the standard front setup in this book. Racers also run the smaller 9-8 mm version, which Tamiya says weighs under half as much, or lighter and cheaper plastic doubles.

ITEM	15398
SIZES	13 + 12 mm
BODY	Aluminium
BEARINGS	520 ×4
PRICE	¥1,210

VARIATION	ITEM	¥	WHAT CHANGES
9-8 mm double	15403	1,210	Smaller, under half the weight
Lightweight	95379 · 95380	990	About 10% lighter rollers
Plastic double 13-12	15457	286	Low friction, cheapest
Rubber-ring double	15418	1,210	More bite on the fence
9 mm low friction	with a plate set		Not sold on its own

> B-MAX RULING · §6 · Q&A ROLLERS
>
> Rollers only as sold: no adding or swapping rings, no mixing diameters, no new bearing. A roller worn 1 mm or more in diameter counts as modified.

Mass dampers マスダンパー

Free weights on a screw. They push the car back down the moment it lands.

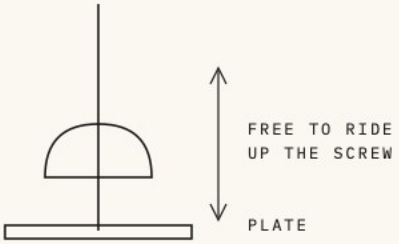


FIG. 6 · A MASS DAMPER RIDES UP THE SCREW AND DROPS BACK

Tamiya's 15392 set is two 4.7 g weights with two lengths of long screws. The weight sits loose on its screw: when the car lifts off at a lane change or a table-top, it lags behind, then lands on the plate and kills the bounce. It mounts on the front or rear bumper.

On this car the domes sit on the front plate, and the heavy 15401 weights go on the sides. That split is a racer's advice; the table shows the other shapes.

ITEM	15392
WEIGHT	4.7 g ×2
PRICE	¥396
MOUNT	Front or rear

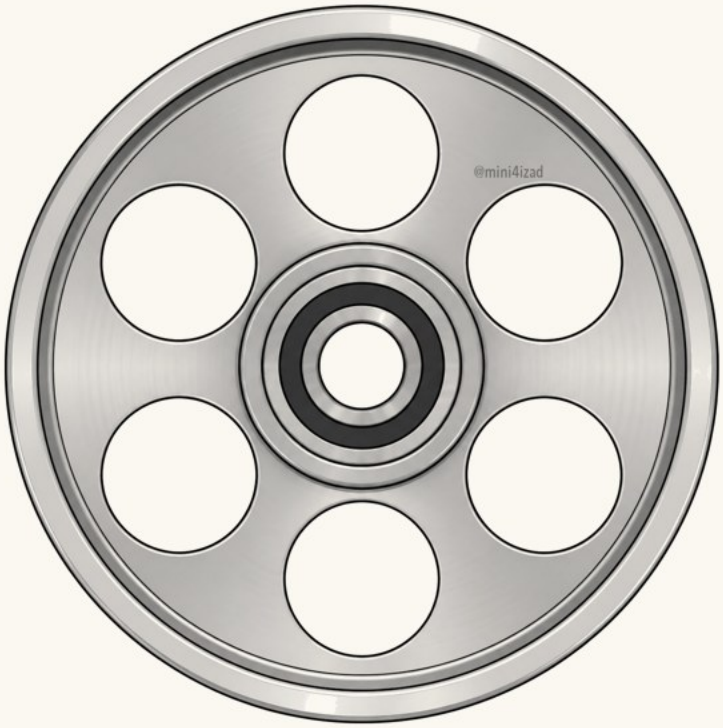
TYPE	ITEM	WEIGHT	USE
Standard	15392	4.7 g	Front plate on this car
Heavy	15401	8.8 g	Sides; travel adjustable
Bowl / cylinder	in 15459	3.4 / 4.2 g	AR side set
Slim	15501	1.5 / 3 g	Tight spaces
Square block	15427	8.3 g	Fixed or damper
Adjustable	95324	2.5 g ×6	Change the stack

> B-MAX RULING · §6 · Q&A MASS DAMPERS
>
> No enlarging a damper's hole; a hole worn 3 mm or more counts as modified. A ball-link damper falling off mid-run isn't a disqualification.

SECTION 03

THE REAR

リヤ



Two plates, four big rollers, and a brake. The rear decides how the car comes off a slope.

PLATES 15 PLATE OPTIONS 16 ROLLERS 17 ROLLER OPTIONS 18 BRAKE 19

Rear plates リヤステー

Two plates stacked: a straight carbon bar on top for the rollers, the SXX plate below.



FIG. 7 · 15497 HG CARBON PLATE FOR 13/19 MM ROLLERS · 15242 SUPER X FRP MULTI REINFORCING PLATE · DRAWINGS @MINI4IZAD

The upper plate is 15497, a straight carbon bar that puts 13 or 19 mm rollers at full width. The Emperor runs a limited Tamiya Korea edition of the same shape; 15497 is the regular one, and 15530 is the same shape in FRP, two for ¥264.

Below it sits 15242, the Super X FRP multi reinforcing plate, the SXX plate. Tamiya makes it to stiffen the bumper so the rollers keep working through big hits, and lists the Super-II. 95600 is the HG carbon version. A Super-II B-MAX build stacks the rear as countersunk screw, SXX plate, brake plate, 3 mm spacer, then the roller stay.

UPPER	15497 · ¥1,320
LOWER	15242 · ¥220
HG LOWER	95600 · ¥924
FRP UPPER	15530 · ¥264

B-MAX RULING · §6 · Q&A PLATES

Plates must be fixed solid; no wobble. Glued stacks and glue-soaked plates are allowed; tapered edges are not.

GARAGE NOTE · @MINI4IZAD

The Emperor's lower plate is a Japan Cup 2025 limited edition (Tamiya lists 95178, an HG carbon multi reinforcing plate). For the guide, the standard parts are 15242 in FRP or 95600 in carbon.

Plate options プレートの選択肢

What else bolts on where this build's plates go. Every one is on Tamiya's Super-II fit list.

FRONT ROLLER STAY



95433 · IN THIS BUILD
HG carbon front stay, full-cowl
Curved to clear a full-cowl body; 9/13/19 mm holes.



15498
HG carbon wide front stay 1.5 mm
Wider wings. Some bodies need trimming. ¥1,034.



15548
HG carbon wide front plate 2 mm
Stiffer; swaps into the 15469 slide damper later. ¥1,078.



15394
FRP multi wide stay
Budget FRP; 9/13/19 mm at width, front or rear. ¥286.

FRONT BRAKE BAR



15193 · IN THIS BUILD
FRP reinforcing plate
The popsicle stick. Cheap, easy to countersink. ¥220.



15495
HG carbon multi plate 1.5 mm
Same job in carbon: bends less. ¥1,210.

REAR ROLLER STAY



15497 · IN THIS BUILD
HG carbon bar for 13/19 mm
Straight bar. FRP twin: 15530, ¥264.



15499
HG carbon wide rear stay 1.5 mm
The wide one-piece rear stay. ¥1,078.



15549
HG carbon wide rear plate 2 mm
9/13/17/19 mm holes; ready for the 15467 rear slide damper. ¥1,078.



15430
FRP multi wide rear stay
Budget FRP rear stay. ¥330.

REAR LOWER PLATE · BRAKE STAY



15242 · IN THIS BUILD
Super X FRP plate (SXX)
Stiffens the bumper. ¥220.



95600
HG carbon Super X plate
The SXX plate in carbon. ¥924.



15550 · IN THIS BUILD
HG carbon brake stay 1.5 mm
Big sponge area, clear of the rollers. ¥1,078.



15518
FRP rear brake stay set
FRP, with a 2 mm white sponge. ¥418.

19 mm rollers 19mmローラー

Four big lightweight aluminium rollers: an upper and a lower on each corner.

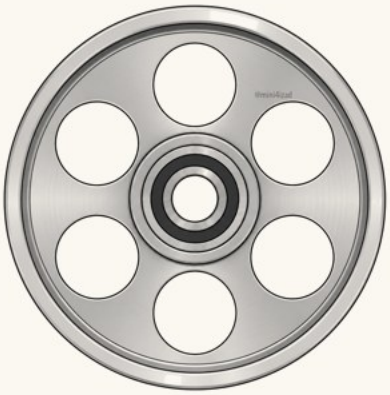


FIG. 8 · 95582 HG LIGHTWEIGHT 19 MM ALL-ALUMINIUM BEARING ROLLER · DRAWING @MINI4IZAD

95582 is Tamiya's HG lightweight 19 mm all-aluminium roller in gold. Six holes and a reshaped body cut the aluminium weight by about 30% against the solid version, and a 520 ball bearing is pressed into each roller. The rear runs two tiers per side, so the build takes two sets.

The same lightweight roller comes in other colours; the Emperor wears the black one, 95498. The solid 15464 is the cheaper regular-line choice, and the tapered 95436 is shaped to help the car drop back onto the track after riding the fence.

ITEM	95582
SIZE	19 mm
BEARING	520
WEIGHT	~30% lighter
PRICE	¥1,078 a set
SETS	2

VARIATION	ITEM	¥	WHAT CHANGES
Solid 19 mm	15464	880	Regular line, heavier
Other colours	95498 (black)	1,078	Same roller, different colour
Tapered 19 mm	95436	880	Helps it drop back onto the track
Plastic-ring 19 mm	15251	814	More grip on the fence

> B-MAX RULING · §6 · Q&A ROLLERS
>
> Same roller rule as the front: only as sold, no new bearing, no mixed diameters.

Roller options ローラーの選択肢

The rear corners take more than one answer. Size, material and ring change how the car meets the fence.

19 MM, HG ALUMINIUM



95582 · IN THIS BUILD

HG lightweight 19 mm

Six holes, about 30% lighter aluminium. ¥1,078.



15464

HG 19 mm, solid

Cheaper and heavier; the regular line. ¥880.



95436

HG 19 mm tapered

Shaped to drop the car back onto the track after it rides the fence. ¥880.

19 MM, NON-HG AND RINGED



15404

19 mm 5-spoke + rubber ring

Budget aluminium, rings in the set: more bite on the fence. ¥726.



15251

19 mm with plastic ring

Plastic ring over an aluminium body. ¥814.

SMALLER DIAMETER



15522

HG 17 mm

Smaller and lighter. Needs 17 mm holes, e.g. 15549. ¥836.



15437

13 mm aluminium, ringless

A pair weighs about 1.7 g. Fits 15497's 13 mm holes. ¥770.



15418

13-12 mm double, rubber ring

One piece; the rubber-ringed tier grips when the car leans. ¥1,210.



15551

13 mm plastic, bearing type

Light plastic body with a bearing. ¥814.

B-MAX: rollers only as sold. A ring counts only on a roller sold with it; you can't add, swap or mix.

Brake ブレーキ

A sponge under a stay that touches the track on slopes and jumps, and scrubs off speed.



FIG. 9 · 15550 HG CARBON BRAKE STAY 1.5 MM · DRAWING @MINI4IZAD

Tamiya shapes 15550 for a large sponge area that stays clear of the rollers, with plenty of holes for mass dampers. It fits front or rear, and the Super-II is on its list. The sponge goes on its underside, so it only touches the track where the course climbs or drops.

15492 is the strong white sponge in 1, 2 and 3 mm. The 1 mm sheet fits tight gaps. For a softer brake, use 15512 (mild blue) or the three-compound 15441.

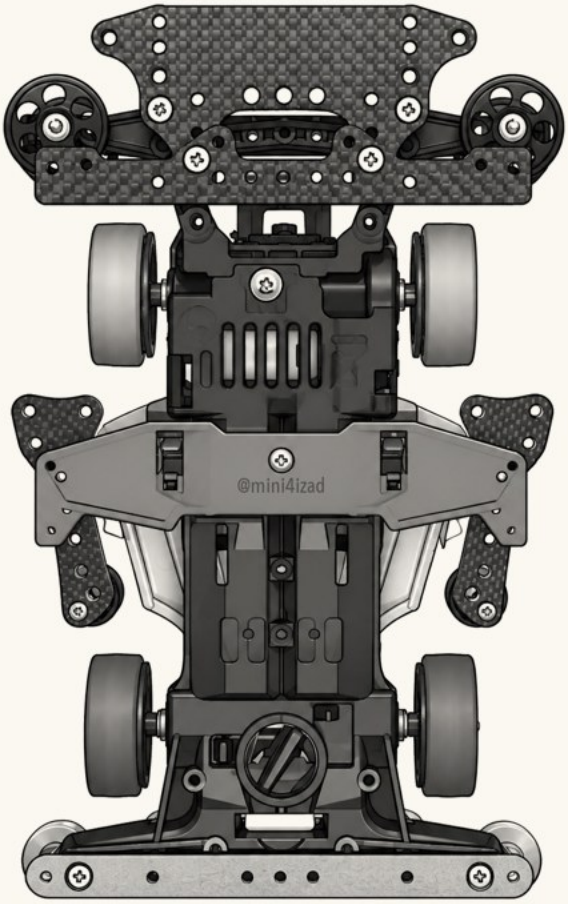
STAY	15550 · ¥1,078
SPONGE	15492 · ¥484
THICKNESS	1 / 2 / 3 mm
FRP STAY	15518 · ¥418

> B-MAX RULING · Q&A BRAKE · TAMIYA REGULATION
>
> You may cut brake sponge. Don't heat-form it: B-MAX calls that dangerous. With brakes fitted, the car still needs 1 mm of ground clearance.

SECTION 04

THE SIDES

サイド

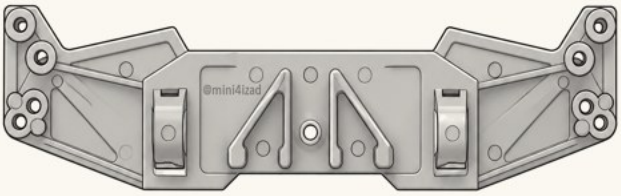


Side stays carry weight out wide, where it calms the car without touching the wheels.

SIDE STAYS **21** SIDE DAMPERS **22**

Side stays サイドステー

Two parts: a plastic mount that clips under the chassis, and a pair of arms bolted to it.



MOUNT · 94835
AO EX SIDE STAY, UNDER THE CHASSIS



HG ARM · 95715
CARBON 1.5 MM, ONE OF A PAIR



FRP ARM · 15459
AR SIDE SET, ONE OF A PAIR

FIG. 10 · THE SIDE-STAY PARTS, TOP VIEW · DRAWINGS @MINI4IZAD, PRINT LEFT OFF

The mount is 94835, the AO EX Side Stay. It's the side-stay part from the Shining Scorpion Premium kit, sold on its own, and it fits Super-I and Super-II. The arms bolt onto its ends.

The HG arm is 95715, the Asia Challenge release of Tamiya's HG carbon side stays for the AR chassis: 1.5 mm carbon, light, and barely flexing. The original, 95601, is out of production and expensive now. The FRP choice is 15459, the AR chassis side mass damper set, which comes with its own bowl and cylinder dampers.

MOUNT	94835 · ¥220
HG ARMS	95715 · varies
FRP ARMS	15459 · ¥682
ORIGINAL HG	95601 · gone

> GARAGE NOTE · @MINI4IZAD
> The arms' official fit lists don't name the Super-II. They go on through the EX side stay.

Side dampers サイドマスダンパー

Heavy weights at the ends of the arms, out wide where they calm the car without touching the wheels.

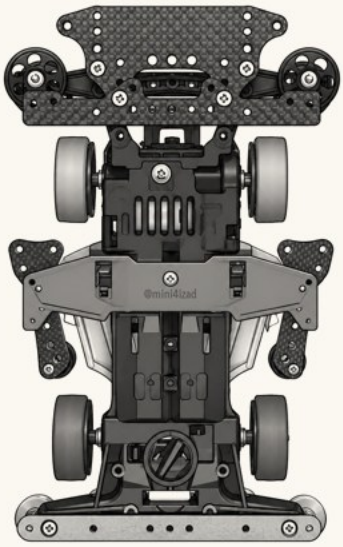


FIG. 11 · ON THE CAR: EX SIDE STAY ACROSS THE MIDDLE, ARMS OUT TO EACH SIDE · EMPEROR UNDERSIDE · DRAWING @MINI4IZAD

Seen from below, the EX side stay sits across the middle of the chassis and the arms reach out on both sides. At their ends go 15401 heavy mass dampers, 8.8 g each.

A hex nut and spacer set how far each weight can travel; lock the nut and it becomes a fixed weight instead. The split on this car, light domes at the front and heavy weights on the sides, is a racer's advice.

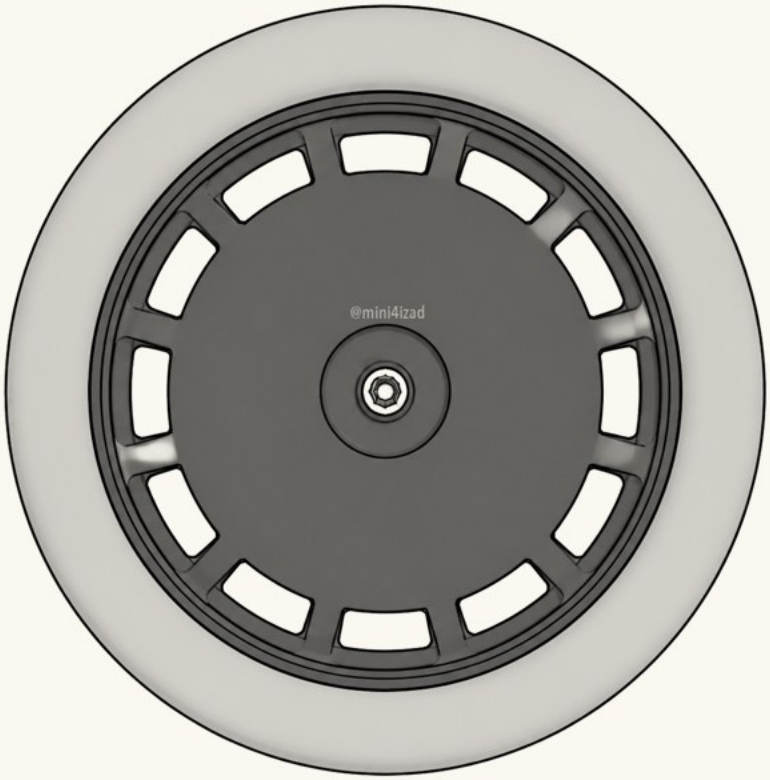
DAMPERS	15401 · ¥396
WEIGHT	8.8 g ×2
LIGHTER	15392 · 4.7 g

> B-MAX RULING · §6 · NO-GO ZONE
>
> No parts except the body inside the wheel zones beside the tyres. Anything that can touch a wall must be fixed to the car or a fixed plate; only dampers and slide dampers may move.

SECTION 05

WHEELS & TYRES

タイヤとホイール



The cheapest big change on the car. Grip front, hard rear, and a shaft that can't pull out.

TYRES **24** WHEEL OPTIONS **25** SHAFTS **26**

Tyres タイヤ

Low-friction at the front to turn in. Super hard at the rear to carry speed.



FIG. 12 · TYRE HARDNESS, TAMIYA'S SCALE · WHERE EACH CHOICE SITS

Front: 15534, low-friction 26 mm low-profile tyres on carbon-reinforced wheels. Tamiya says they grip even less than super hard, and that fitting them at the front sharpens how the car turns in.

Rear: 15542, super-hard 26 mm low-profile on the Y-spoke wheel. It loses little speed in corners and bounces less on landing, and it's what most racers run. The Emperor runs the silver hard tyre from 95412 instead, here on a dish wheel. Hard or super hard is a track choice: it's how racers tune straight-line speed.

FRONT	15534 · ¥440
REAR	15542 · ¥396
VARIATION	95412 · ¥352
SIZE	26 mm low-profile

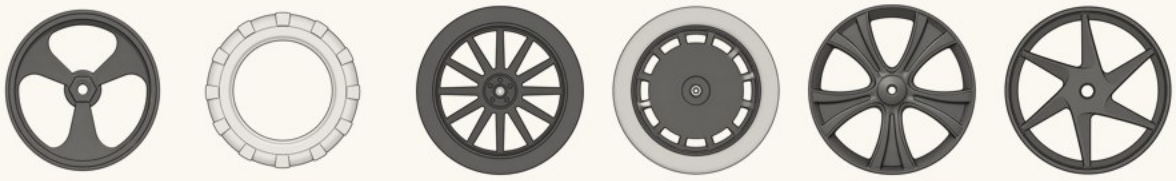
B-MAX RULING · Q&A TYRES · TAMIYA REGULATION

Not allowed: cutting or sanding tyres. **Allowed:** mixing tyre and wheel sizes. Tyres stay 22 to 35 mm across and 8 to 26 mm wide.

Wheel options ホイールの選択肢

Diameter is the big lever. Smaller sits lower and climbs better; larger is faster on long straights.

SMALL · **ABOUT 24 MM** MEDIUM · **ABOUT 26 MM**



3-SPOKE SWEPT WHEEL · WHITE LUG TYRE · 12-SPOKE + DARK TYRE · DISH 12-SLOT + WHITE TYRE · 5 SPLIT-SPOKE WHEEL · 6-SPOKE STAR WHEEL

FIG. 13 · WHEELS AND TYRES FROM MY OWN BOX, BY SIZE · DRAWINGS @MINI4IZAD

ITEM	SIZE	TYRE	WHEEL	WHEN TO USE IT	¥
15541	24 mm	Low friction, narrow	Carbon 3-spoke	Lower and steadier: twisty courses, climbs	440
15534	26 mm	Low friction, low-profile	Carbon fin	Front of this build: turns in	440
15542	26 mm	Super hard, low-profile	Carbon Y-spoke	Rear of this build: carries speed	396
95412	26 mm	Hard, low-profile, silver	Carbon Y-spoke	Hard, not super hard: tunes straight speed	352
15544	31 mm	Low friction, low-profile	Carbon dish	Long straights, top speed	440

All five list the Super-II. 15543 (24 mm super hard) and 15545 (26 mm hard, grey) are listed for Super X/XX and FM-A only. Tyre size range under the rules: 22 to 35 mm.

72 mm shafts 72mmシャフト

Long hex shafts that run right through the wheel, so it can't walk off at speed.



KIT · SHAFT STOPS INSIDE DRILLED · 72 MM GOES THROUGH

FIG. 14 · KIT SHAFT VS A 72 MM SHAFT THROUGH A DRILLED WHEEL

Racers drill the wheels through and run 72 mm hex shafts so the wheel can't pull off at high speed. B-MAX allows this specifically: the shaft going through the wheel is one of its few permitted changes.

15417 is Tamiya's 72 mm reinforced shaft, steel with more carbon than the kit shaft, in black nickel, and Tamiya says it resists bending at speed. Its official list names Super X and XX. The AO pack 10314 gives ten plain 72 mm hex shafts.

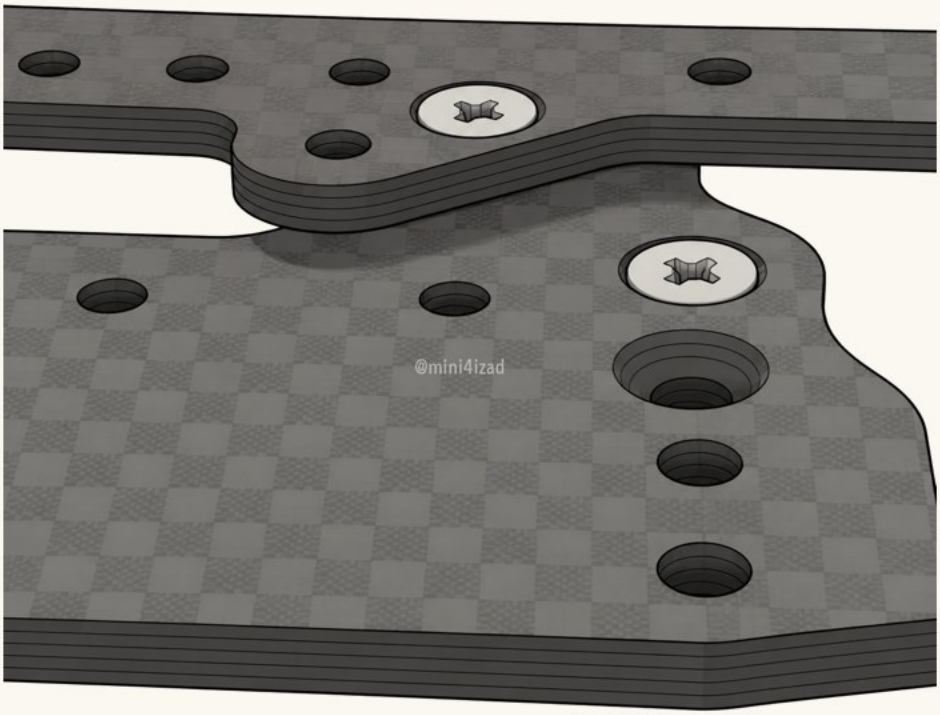
ITEM	15417 ×4
LENGTH	72 mm
PRICE	¥220
AO PACK	10314 · ¥286

> B-MAX RULING · §6
>
> The shaft may pass through the wheel. Nothing else about the wheel may change shape.

SECTION 06

HARDWARE

ビス・ナット



The small parts that hold the car together, and the rules that hide in them.

SCREWS **28** NUTS, SPACERS, CAPS **29**

Screws ビス

Long stainless screws for the roller stacks. Countersunk screws for anything under the car.



FIG. 15 · COUNTERSUNK SCREWS SIT FLUSH IN A CARBON PLATE · DRAWING @MINI4IZAD

Countersunk screws have flat heads. Countersink the plate, and the head sits flush, so nothing hangs below the car to hit the track. That also lets the brake sit lower. Tamiya says to cut the countersink with its 2 mm bit, 74130, in a rotary tool.

The long stainless screws carry the roller stacks and stabilisers. Screw sets A and B cover the short screws and nuts.

STAINLESS	15508 · ¥440
40 MM	15407 · ¥264
COUNTERSUNK	15510 · ¥330
COUNTERSUNK	15527 · ¥308
SETS A / B	15232 · 15233
BIT	74130

SET	LENGTHS	¥
15508 Stainless	15 · 20 · 25 · 30 mm	440
15407 Set D	40 mm stainless	264
15510 Countersunk	10 ×4 · 12 ×6 · 20 ×2 · 25 ×4 · 30 ×4	330
15527 Countersunk	6 · 8 · 15 mm, ×10 each	308
15232 / 15233	Screw sets A and B	154 each

> B-MAX RULING · §6 · Q&A
>
> Countersinking existing holes in FRP or carbon plates and the chassis is allowed. New holes are not.

Nuts, spacers, caps ナット・スペーサー

The finishing parts. Two of them are written into the rules.

PART	ITEM	¥	JOB
2 mm aluminium lock nut, red ×5	15493	550	Tops every roller stack. Blue: 15500
Aluminium spacer set	15473	286	12 · 6.7 · 6 · 3 · 1.5 mm. Plastic: 15506
Ball stabi caps, monochrome	15385	220	Covers bare thread; rubber tube included
Quick-release body catch	15406	198	Holds the body on

Every long screw on this car ends in a red aluminium lock nut, with aluminium spacers setting each roller's height. Tamiya's ball caps screw onto a bare thread, and with long screws they make stabiliser poles.

Two of these are rules, not choices. A thread sticking out of the car must be covered, by a ball cap or a rubber pipe. And B-MAX requires a body catch.

NUTS	15493 · ¥550
SPACERS	15473 · ¥286
CAPS	15385 · ¥220
CATCH	15406 · ¥198

> B-MAX RULING · §6 · TAMIYA REGULATION
>
> The body must be mounted with a body catch. No shapes that could damage the track or hands; cover any exposed screw thread.

Putting it together. 組み立て

The bare Carbon Super-II, with every plate lifted off where it bolts on. Rear stack at the top, numbered in fitting order; front at the bottom.

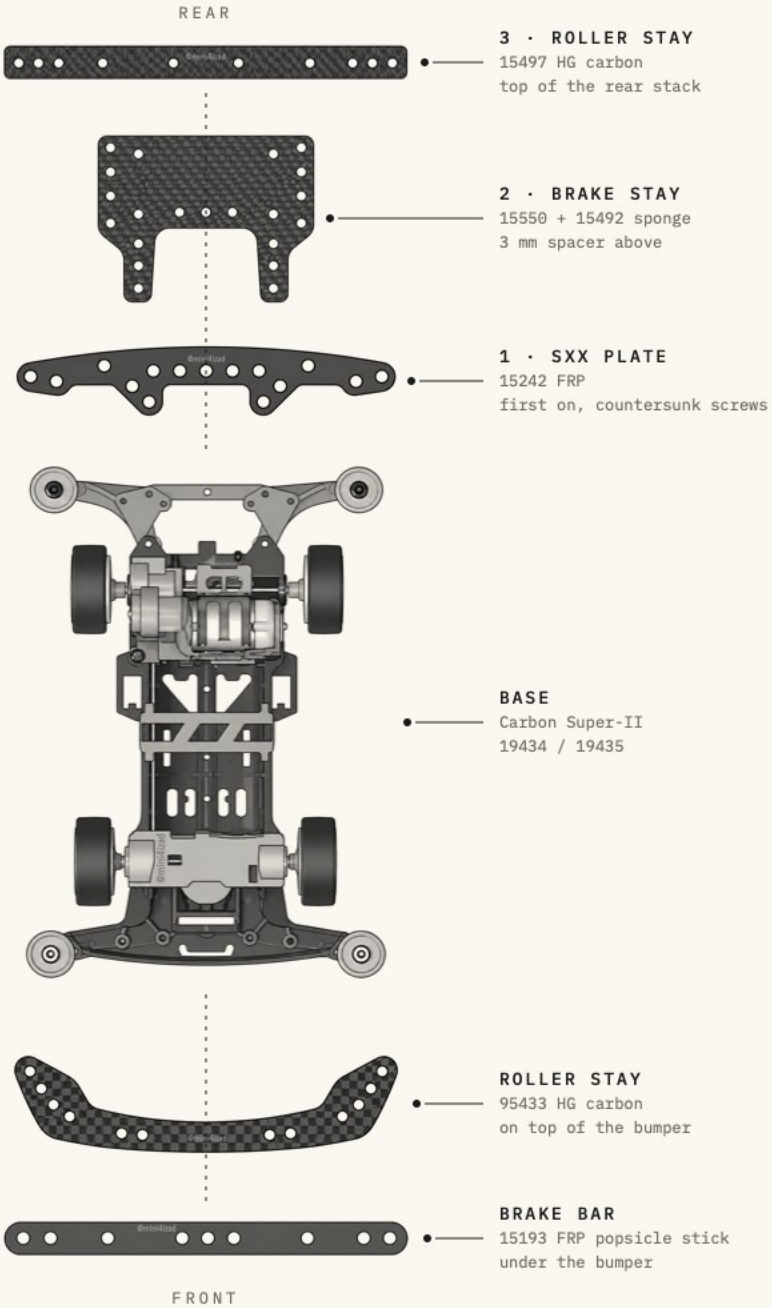


FIG. 16 · FLOATING VIEW, TOP DOWN · NOT TO SCALE · DRAWINGS @MINI4IZAD

Everything on the car.

Tamiya Japan list prices with tax, 22 October 2026. Shop prices vary.

ITEM	PART	SECTION	¥
19434	Victory Magnum Premium (or 19435 Vanguard Sonic Premium)	Base	kit
15432	Super Speed Gear Set (Super XX & Super-II)	Base	308
15438	Reinforced Gears w/ Easy Locking Gear Cover	Base	374
15390	Fluorine Coated Gear Shaft (Straight)	Base	176
15519	HG Round-Hole Ball Bearings ×4	Base	1,540
15383	Mini 4WD F Grease	Base	550
15421	Super-II Gold Terminal	Base	330
95433	HG Carbon Front Stay 1.5 mm (Full-Cowl Type)	Front	1,034
15193	FRP Reinforcing Plate Set (popsicle stick)	Front	220
15398	Double Aluminium Rollers 13-12 mm	Front	1,210
15392	Mass Damper Set	Front	396
15497	HG Carbon Reinforcing Plate for 13/19 mm Rollers	Rear	1,320
15242	Super X FRP Multi Reinforcing Plate (SXX)	Rear	220
95582	HG Lightweight 19 mm Aluminium Ball-Race Rollers (Gold)	Rear	2,156 (2×)
15550	HG Carbon Brake Stay 1.5 mm	Rear	1,078
15492	Brake Sponge Set 1/2/3 mm White	Rear	484
94835	AO EX Side Stay	Sides	220
95715	HG Carbon Side Stays for AR 1.5 mm (Asia Challenge)	Sides	varies
15401	Mass Damper Set (Heavy)	Sides	396
15534	Low Friction 26 mm Low-Profile + Carbon Wheel	Wheels	440
15542	Super Hard 26 mm Low-Profile + Y-spoke Wheel	Wheels	396
15417	72 mm Black Reinforced Shafts ×4	Wheels	220
15508	Stainless Screw Set 15/20/25/30 mm	Hardware	440
15407	Screw Set D (40 mm)	Hardware	264
15510	Stainless Countersunk Screws 10-30 mm	Hardware	330
15527	Stainless Countersunk Screws 6/8/15 mm	Hardware	308
15232	Screw Set A	Hardware	154
15233	Screw Set B	Hardware	154
15493	2 mm Aluminium Lock Nut (Red ×5)	Hardware	550
15473	Aluminium Spacer Set	Hardware	286
15385	Ball Stabi Cap (Monochrome)	Hardware	220
15406	Quick-Release Body Catch Set	Hardware	198
	Grade-up parts, before the kit and side arms		**15,972**

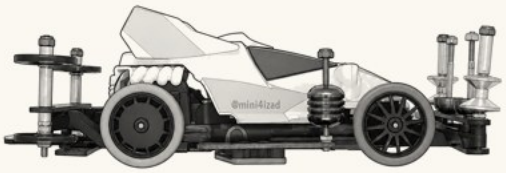
Where this comes from.

Rules. Basic-MAX GP Competition Regulations ver5.0 and the official Q&A, basic-max.com, published 13 May 2026, in force 1 June 2026. Tamiya Mini 4WD Official Competition Regulations, tamiya.com, as of 5 January 2026. The companion book, ***B-MAX GP Rules v5.0 Illustrated***, covers every rule.

Parts. Tamiya Japan product pages for every item listed, read 22 October 2026: names, specifications, fit lists and prices. The 2026 Tamiya Mini 4WD book for tyre hardness and the Japan Cup motor note. Tamiya Malaysia (tamiya.com.my) for 94835 and 95601.

The car. My own Emperor on a Carbon Super-II, photographed and redrawn as vector art (@mini4izad). Garage notes are what racers around me actually run.

Unofficial. Not affiliated with TAMIYA Inc. or the Basic-MAX GP Committee. Rules change: check basic-max.com and your event's rules before you race.



V1.1 · UPDATED 25 OCT 2026