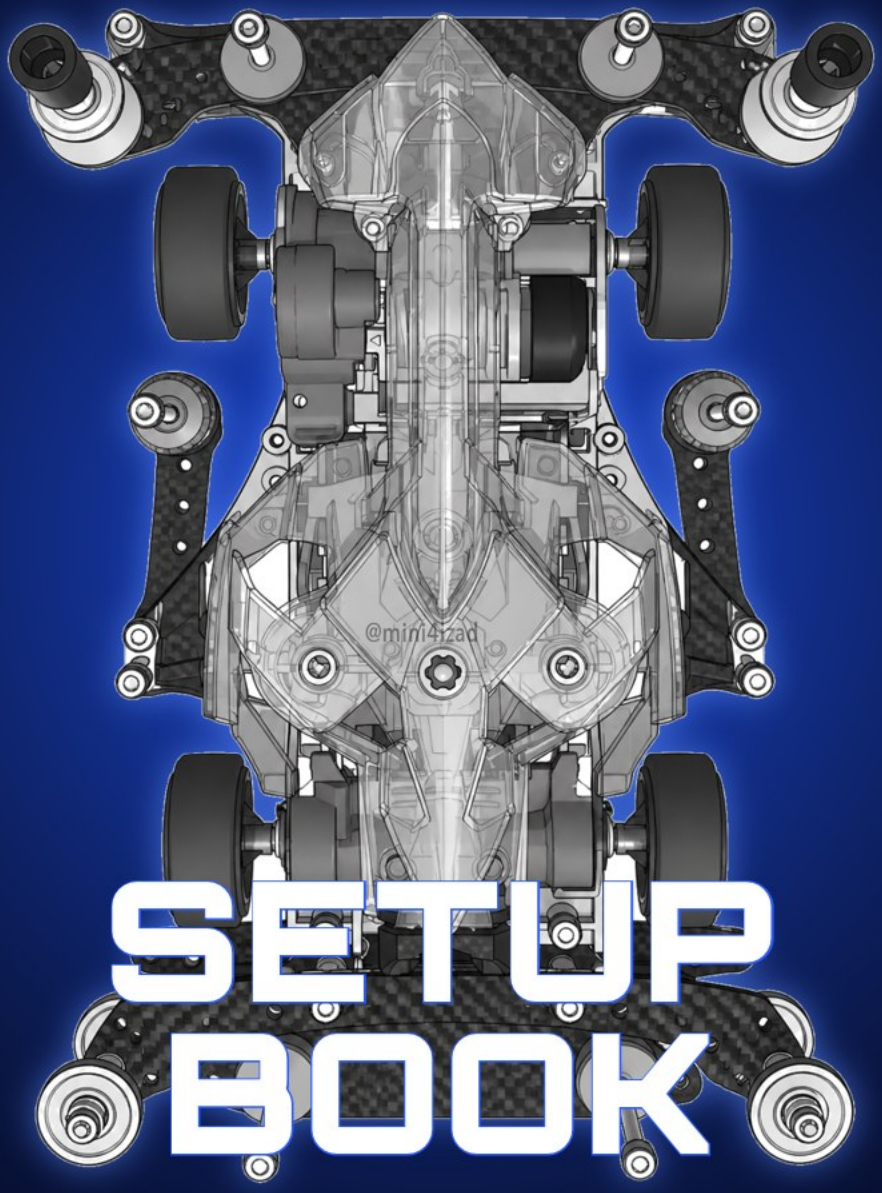


SETUP BOOK

FM-A EDITION

The FM-A, built part by part.

FRONT MOTOR · 1/32 · B-MAX VER5.0

B-MAX セッティングガイド

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Thank you.

Before the parts, a few words.

THE SUPER-II BOOK

The response to the Super-II Setup Book was more than I hoped for. Thank you to everyone who downloaded it, paid what they wanted, and sent corrections. A reader spotted a plate drawn in the wrong order, and that's fixed now, along with a cleaner gear figure. If you already have it, download it again from the same Ko-fi link: ko-fi.com/s/29bd23b7ec.

WHAT'S BETTER IN THIS ONE

This FM-A book is where most of that feedback went. Every part in the build gets a drawing, both roller stacks are worked out to scale on their own pages, the brakes get an options page, and the whole car is floated apart on one page. Tap any page number in the contents, or a "page" reference, to jump straight there.

WHAT THIS BOOK DOESN'T COVER

This is a setup book: plates, rollers, dampers, brakes, wheels and the screws that hold them. It doesn't cover washers, bearings, motors and motor tuning, oil and grease, or batteries and power. The Power page only lists which motors the rules allow.

SPECIAL THANKS

The car in this book is the FM-A setup of **@mrfarhanfpv**, and every drawing of it is traced from his build. Find him on TikTok, and thank you for letting me use it.

ABOUT THE PICTURES

Every drawing is redrawn by me (@mini4izad) with AI help, from photos: @mrfarhanfpv's car, my own parts, and Tamiya's product photos as a reference. None of them are Tamiya images. Logos and printed graphics are left off on purpose, and drawings aren't to scale unless the page says so.

Nothing to cut. Everything to choose.

Take away the cutting and the drilling, and what's left is judgement: which part, which hole, and how you run it on the day.

B-MAX allows Tamiya parts only: Mini 4WD, Radio 4WD and Dangun. Parts keep the shape they came in. There are no lightening holes, no cutting and no home-made chassis. Two small exceptions matter: you may countersink existing holes in plates and the chassis, and you may run the shaft right through the wheel.

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

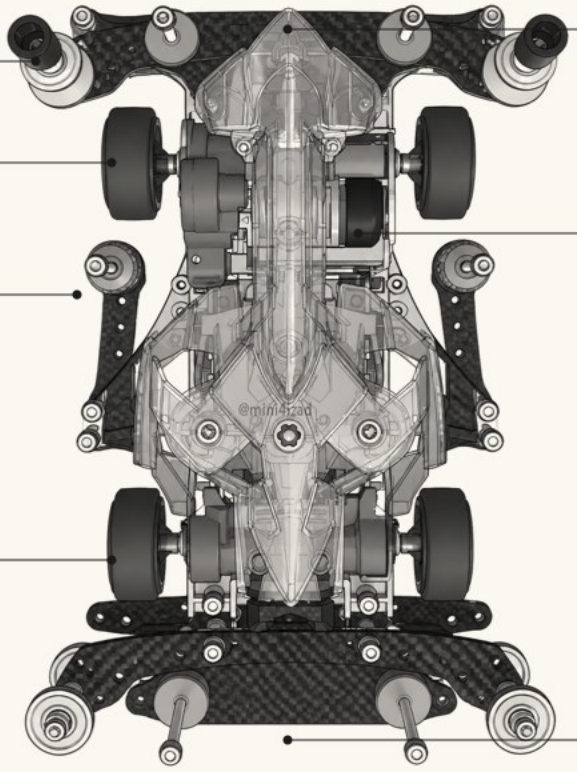
Every part is Tamiya, and regular line wherever a regular part exists. The car in the drawings is the FM-A setup of @mrfarhanfpv, redrawn from his build; where it runs a limited edition, the page names the regular part to buy instead.

Every page answers four things: what the part is, why it's on the car, what the rules let you do to it, and what else racers fit there. Prices are Tamiya Japan list prices with tax, as of 23 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 car, on one page.

The book's 6 sections, mapped onto the car. Follow a label to where its parts bolt on.



02 · FRONT ROLLERS
13-12 double + 13 mm
15528 tube caps

05 · FRONT TYRE
15541 low friction
24 mm, 3-spoke

04 · SIDES
15459 FRP arms
2 taped bowls a side

05 · REAR TYRE
15543 super hard
24 mm, 3-spoke

02 · FRONT
95433 + 15472 stay
15459 bowl dampers

01 · BASE
FM-A, motor up front
4.2:1 · red A-parts

03 · REAR
95433 + 15472 · 15242
15437 ×4 · 15518 brake

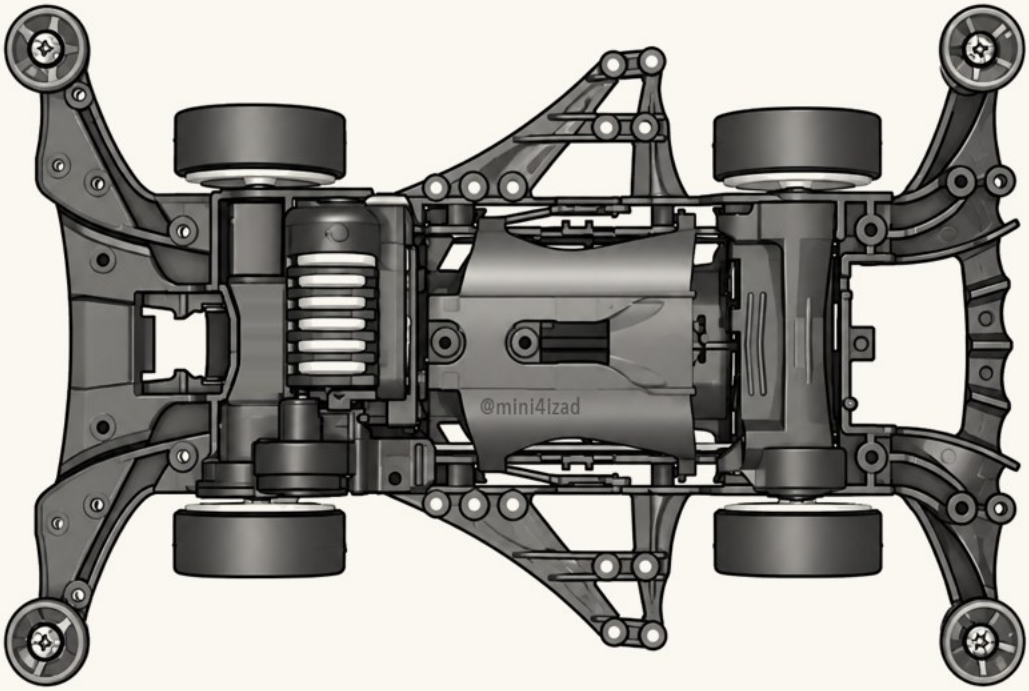
FRONT AT THE TOP · REAR AT THE BOTTOM

FIG. 1 · THE FM-A BUILD, TOP VIEW · AFTER @MRFARHANFPV'S CAR · DRAWING @MINI4IZAD

SECTION 01

THE BASE

シャーシと駆動系



Motor up front, weight forward. The FM-A lands flat and settles where other cars bounce.

CHASSIS 07 DRIVETRAIN 08 GEAR OPTIONS 09 POWER 10

FM-A chassis FM-Aシャーシ

Front-Midship-Aero: the motor sits ahead of the batteries, and that puts the weight forward.

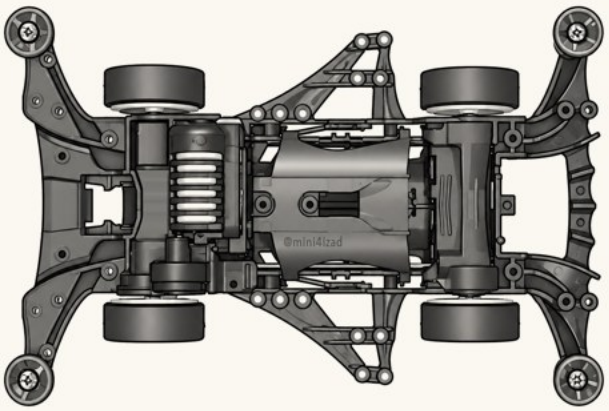


FIG. 2 · FM-A CHASSIS, PLAN VIEW · DRAWING @MINI4IZAD

Tamiya built the FM-A on what it learned from the AR and MA chassis, chasing drive efficiency and clean airflow. With the motor at the front, the centre of gravity sits forward, so the car holds its attitude after a jump and stays composed on layouts full of climbs and drops.

This car runs a black chassis with red A-parts. Those come from the Brocken Gigant Premium (19452), where Tamiya moulds the under panel and skid bar in red low-friction resin. Any FM-A kit is the right start; the red parts are a bonus, not a rule.

LAYOUT	Front motor
SHAFT	Single
LENGTH	150 mm
WIDTH	97 mm
WHEELBASE	83 mm
RED A-PARTS	19452 · ¥1,430

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

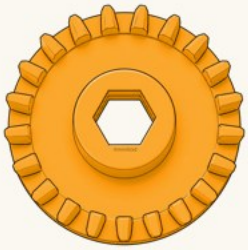
Kits ship with different gears. The Rowdy Bull and the Brocken Gigant Premium come on 3.5:1; the K4 Gambol on 5:1. This car runs 4.2:1, set up on the next two pages.

Drivetrain 駆動系

A red counter gear for pull, an orange crown gear, and a hollow propeller shaft to carry it all to the rear.



COUNTER · RED
4.2:1, FROM 15236



CROWN · ORANGE
94773 · AO-1019

FIG. 3 · THE 4.2:1 COUNTER GEAR AND THE G-2 CROWN GEAR · DRAWINGS @MINI4IZAD

15236 is Tamiya's high-speed counter gear set for single-shaft chassis. It holds both the 4:1 and the 4.2:1 pairs, and this car runs the 4.2:1: red counter, light-brown spur. The same red pair also sits in the FM-A's own setting set, 15516.

With the motor at the front, the FM-A sends drive to the rear axle down a propeller shaft. 15234 is the hollow, lightweight one Tamiya makes for Super X, and it's on the FM-A list. The crown gear is 94773, the AO spare in orange, ten to a bag.

COUNTER SET	15236 · ¥330
CROWN GEAR	94773 · ¥176
PROP SHAFT	15234 · ¥154
ALL 5 RATIOS	15516 · ¥946

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

The FM-A takes five ratios. Lower numbers are for top speed, higher numbers for pull on technical courses, and the gear colours tell you which is which.

RATIO	COUNTER	SPUR	SET · WHEN TO USE IT
3.5:1 SUPER SPEED	 LIGHT BLUE	 YELLOW	**15516 · IN MOST KITS** Flat, fast layouts. Most FM-A kits ship with this one.
3.7:1 HIGH SPEED EX	 GREEN	 YELLOW	**15516** A touch more pull without giving up much speed.
4:1 HIGH SPEED	 BLACK	 LIGHT BROWN	**15516 · 15236** Climbs and corner exits: the middle of the range.
4.2:1 HIGH SPEED	 RED	 LIGHT BROWN	**15516 · 15236 · IN THIS BUILD** Torque for hilly, technical layouts. This car's ratio.
5:1 POWER	 BLUE	 YELLOW-GREEN	**15516 · K4 KITS** Maximum pull. Partner it with a quick motor.

One box holds all five: 15516, Tamiya's FM-A setting gear set (¥946), with a fluorine-coated gear shaft, a carbon-reinforced 8T pinion, bearings and a propeller shaft. It also fits Super X and XX. Read a ratio as motor turns per tyre turn. Under B-MAX, counter and spur gears go only in their specified pairs. Drawings @mini4izad from 15456; 15516 uses the same colour pairs.

Power モーターと電池

B-MAX follows Tamiya's motor list; for an FM-A, that means the 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 FM-A	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.

On the FM-A the motor change is quick: take off the under panel and the motor drops out from below, with the counter gear left where it is. 15237, the Super X gold terminal, names the FM-A too; gold plating keeps the contacts from oxidising.

TERMINALS	15237 · ¥330
SHAFT TYPE	Single
MOTOR ACCESS	From below
BATTERIES	Tamiya AA ×2

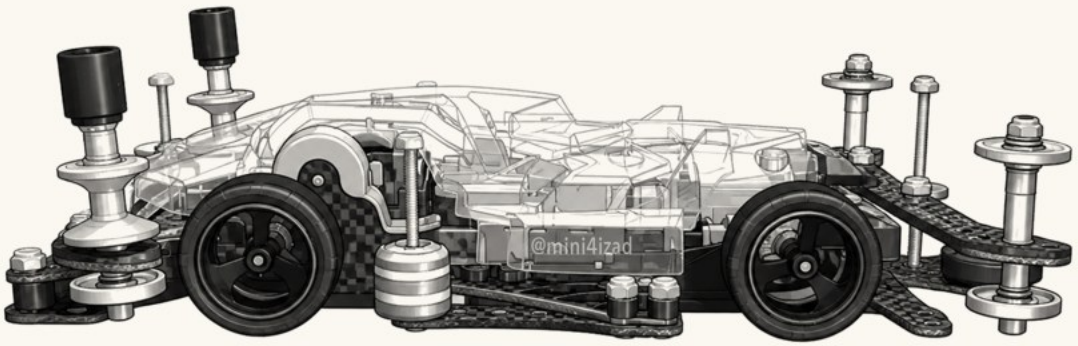
> B-MAX RULING · §6 · Q&A MOTOR
>
> Terminals: kit or grade-up part, fitted as the instructions show. No soldering, no doubled plates. Batteries only in the specified direction.

> EVENT NOTE · TAMIYA MINI 4WD BOOK, 2026
>
> Events can be stricter than B-MAX. Japan Cup 2026 limits its Junior and Trial classes to the Normal and Tune motors. Read your event's rules before race day.

SECTION 02

THE FRONT

フロント



Four plates, two tiers of rollers under black caps, and two brass bowl weights. The first thing to touch the fence.

FRONT PLATES 12 ROLLERS 13 MASS DAMPERS 14 PLATE OPTIONS 15

Front plates フロントステー

A carbon stay doubled with its FRP twin, a rear stay used as a front base under them, and straight bars below the bumper.

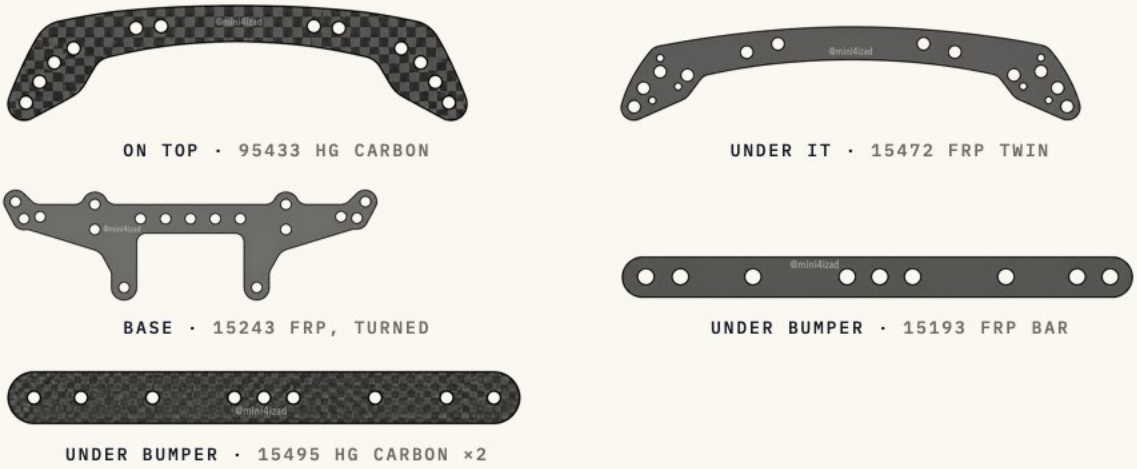


FIG. 4 · THE FRONT PLATES, TOP VIEW · DRAWINGS @MINI4IZAD, PRINT LEFT OFF

The roller stay is 95433, Tamiya's 1.5 mm HG carbon stay for full-cowl cars, with holes for 9, 13 and 19 mm rollers. Tamiya lists it for the FM-A, MA and AR. Under it sits 15472, the same outline in FRP: the pair bolt together into one thick, stiff stay.

Below the bumper go the straight bars racers call popsicle sticks: 15193 in FRP and two of 15495, its 1.5 mm carbon version. The lowest 15495 carries the front brake sponge. This car's stay is a limited Tamiya Korea print (92427); 95433 is the regular part with the same shape.

STAY	95433 · ¥1,034
FRP TWIN	15472 · ¥286
BASE	15243 · ¥242
FRP BAR	15193 · ¥220
HG BAR ×2	15495 · ¥1,210

GARAGE NOTE · PLATES SWAP ENDS

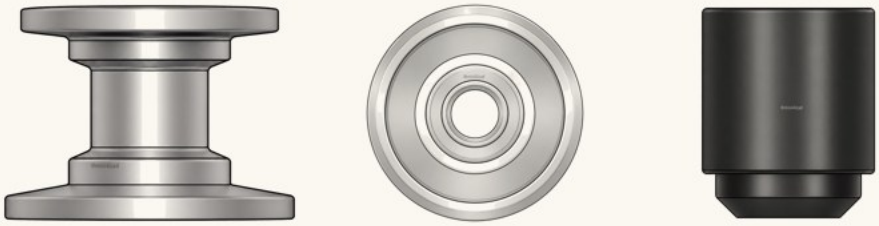
Under the stay pair sits 15243, Tamiya's Super X FRP rear roller stay, turned round and bolted to the FM-A's lowest front holes, straight edge forward. Plates aren't tied to one end: if the holes line up and nothing hangs into the wheel zones, a "rear" stay can do a front job.

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.

Rollers ローラーとスタビ

Three parts on each front corner: a double roller, a plain 13 mm under it, and a black tube on top.



DOUBLE · 13-12 MM
15398

BELOW · 13 MM
15437 RINGLESS

ON TOP · TUBE
15528 BLACK STABILISER

FIG. 5 · A FRONT CORNER, PART BY PART · DRAWINGS @MINI4IZAD (THE DOUBLE ROLLER IS SHOWN FROM THE 95581 DRAWING)

The double roller turns two diameters into one part: the 13 mm tier runs the fence, and when the car leans the 12 mm tier takes over before it can roll. On this car it's 15398, the regular aluminium double; 95379 is a lighter version, about 10% lighter.

Beneath it sits 15437, a ringless 13 mm aluminium roller with a bearing, only 2.5 mm thick, a pair at about 1.7 g. On top, 15528 hi-mount tube stabilisers: 8 × 10 mm ABS tubes that ride the fence above the rollers and keep the nose from climbing it.

DOUBLE	15398 · ¥1,210
LIGHTER	95379 · ¥990
13 MM	15437 · ¥770
TUBE STABI	15528 · ¥264
TUBES	8 × 10 mm ×3

VARIATION	ITEM	¥	WHAT CHANGES
9-8 mm double	15403	1,210	Smaller, under half the weight
Plastic double 13-12	15457	286	Low friction, cheapest
Rubber-ring double	15418	1,210	Grips the fence when it leans

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.

SEE ALSO

How a front corner goes together on one screw, from the cap head to the tube on top: page 31.

Mass dampers マスダンパー

Light at the front, heavier at the back: every weight on this car comes out of one set, 15459.



FRONT · BOWL
3.4 G EACH

REAR · CYLINDER
4.2 G EACH

SIDES · 2 BOWLS
TAPED WITH 15463

FIG. 6 · THE THREE DAMPER SETUPS ON THIS CAR, ALL FROM 15459 · DRAWINGS @MINI4IZAD

15459, the AR chassis side mass damper set, comes with two kinds of brass weight: a bowl (3.4 g) and a cylinder (4.2 g), two of each. Each one sits loose on its screw, so when the car lifts at a jump it trails behind, then lands on the plate and kills the bounce.

This car puts the light bowls at the front, on 30 mm countersunk screws fitted from under the plates so the heads sit flush. The heavier cylinders go on the rear brake stay, and the sides carry two bowls each, stacked and wrapped in tape so they move as one weight. That's six bowls and two cylinders: three sets of 15459.

SET	15459 · ¥682
BOWL	3.4 g
CYLINDER	4.2 g
IN A SET	2 + 2
ON THIS CAR	3 sets
SCREW	30 mm countersunk

TYPE	ITEM	WEIGHT	USE
Bowl	15459	3.4 g	Front here; two taped per side
Cylinder	15459	4.2 g	Rear brake stay here
Standard dome	15392	4.7 g	A step heavier
Heavy	15401	8.8 g	The heaviest round weight

> 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.

Front plate options プレートの選択肢

The other plates that fit where this build's plates sit, all on Tamiya's FM-A fit list.

FRONT ROLLER STAY



95433 · IN THIS BUILD
HG carbon front stay, full-cowl
Clears a full-cowl body; 9/13/19 mm holes. ¥1,034.



15472 · IN THIS BUILD
FRP wide front stay, full-cowl
Same outline in FRP; doubled under 95433 here. ¥286.



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
Thicker, and ready for a slide damper later. ¥1,078.



15394
FRP multi wide stay
Budget FRP; works at either end. ¥286.



15243 · IN THIS BUILD
Super X FRP rear roller stay
A rear stay used as the front base on this car. ¥242.

UNDER THE BUMPER



15495 · IN THIS BUILD
HG carbon multi plate 1.5 mm
Two on this car; the lower one holds the brake. ¥1,210.

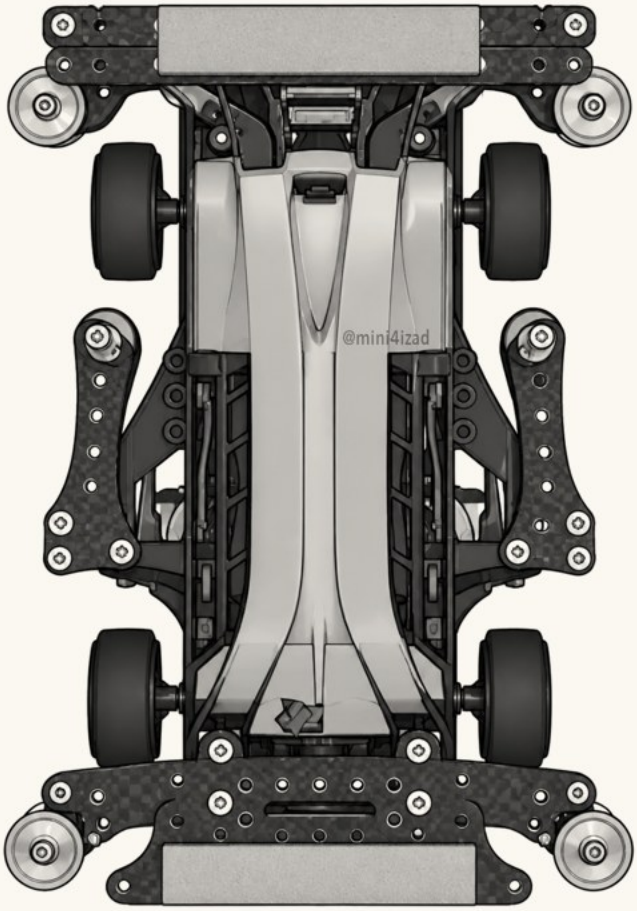


15193 · IN THIS BUILD
FRP reinforcing plate
The FRP popsicle stick. ¥220.

SECTION 03

THE REAR

リヤ



The same carbon-and-FRP stay again, four small rollers, and a taped brake underneath.

REAR PLATES 17 ROLLERS 18 BRAKES 19 BRAKE OPTIONS 20 PLATE OPTIONS 21

Rear plates リヤステー

The front stay pair turned round for the tail, with the Super X plate underneath.

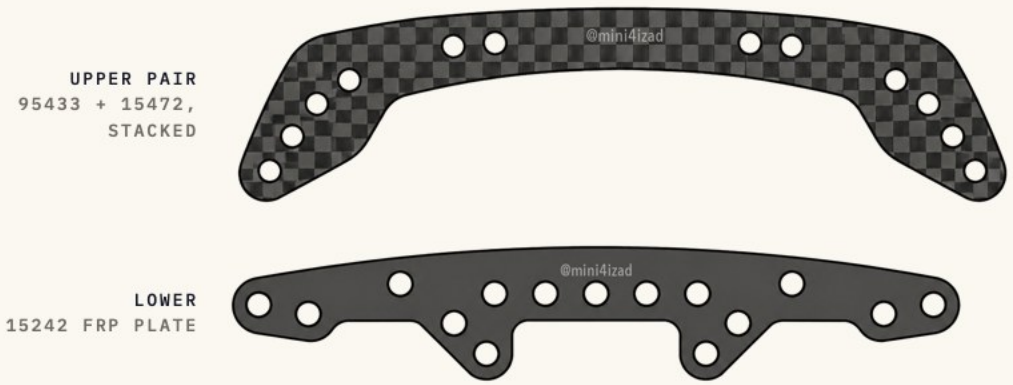


FIG. 7 · REAR PLATES, TOP VIEW · 15472 SITS UNDER 95433 AS AT THE FRONT · DRAWINGS @MINI4IZAD

This car mirrors its front at the back: a 95433 carbon stay bolted over a 15472 FRP twin, two layers of the full-cowl outline that put the rollers out at full width. Using one stay design at both ends keeps the spares box short.

Under the rear bumper goes 15242, the Super X FRP multi reinforcing plate, which stiffens the bumper against hard hits. Tamiya's own list for it names Super X, XX, Super-II, MS and VS; on the FM-A it's a builder's choice, and 95600 is its carbon version.

UPPER	95433 · ¥1,034
UPPER TWIN	15472 · ¥286
LOWER	15242 · ¥220
HG LOWER	95600 · ¥924

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 · @MINI4IZAD

Doubling a carbon stay with its FRP twin is cheap stiffness: the FRP costs ¥286 and the pair bends far less than either plate alone.

Rear rollers リヤローラー

Small and light: four 13 mm ringless aluminium rollers, two on each corner.

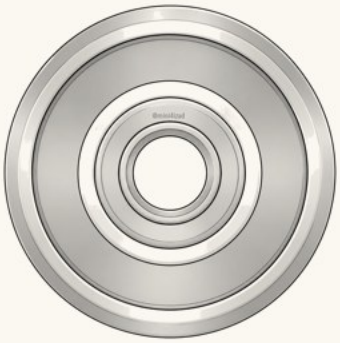


FIG. 8 · 15437 13 MM ALL-ALUMINIUM BALL-RACE ROLLER, RINGLESS · DRAWING @MINI4IZAD

15437 is Tamiya's 13 mm all-aluminium roller with no ring, a bearing pressed in, and very little mass: a pair weighs about 1.7 g. Two sets give four, an upper and a lower tier on each rear corner, all on 30 mm cap screws.

Small rollers are a deliberate choice on a front-heavy car. The tail stays light and turns in freely, and the 13 mm holes are already in the 95433 stay. Bigger 19 mm rollers hold a line better on fast sweepers but add weight at the end where this car wants none.

ITEM	15437
SIZE	13 mm
WEIGHT	~1.7 g a pair
PRICE	¥770 a set
SETS	2 (+1 front)
SCREW	30 mm cap

VARIATION	ITEM	¥	WHAT CHANGES
HG 19 mm, solid	15464	880	Bigger and steadier, heavier
HG lightweight 19 mm	95582	1,078	Big but light, six holes
13 mm plastic, bearing	15551	814	Lighter body, softer on the fence

B-MAX RULING · §6 · Q&A ROLLERS

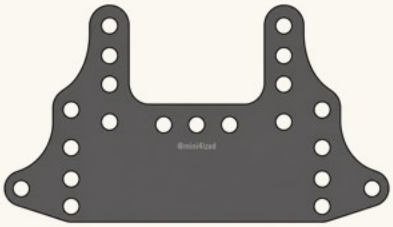
Same roller rule as the front: only as sold, no new bearing, no mixed diameters.

SEE ALSO

Both rear rollers, the stay and the spacers on one screw, floated apart and assembled: page 30.

Brakes ブレーキ

Strong at the back, mild at the front, and the rear sponge wrapped in Tamiya's own tape.



REAR STAY
15518 FRP



REAR SPONGE
15492 WHITE



WRAPPED IN
15463 TAPE

FIG. 9 · THE REAR BRAKE, PART BY PART · DRAWINGS @MINI4IZAD

The rear brake is 15518, Tamiya's FRP rear brake stay set, with the strong white sponge from 15492 (1, 2 and 3 mm sheets). On this car the sponge is wrapped in 15463, Tamiya's 10 mm blue multipurpose tape, which holds it on and evens out the bite. Tamiya says the tape is allowed at its official races.

The front brake is milder on purpose: 15512, the blue sponge, under the lowest 15495 bar. A strong rear and a soft front lets the car scrub speed on a drop without the nose snatching.

REAR STAY	15518 · ¥418
REAR SPONGE	15492 · ¥484
TAPE	15463 · ¥396
FRONT SPONGE	15512 · ¥484
FRONT PLATE	15495 (lower)

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.

RACER LORE · THE PINK BRAKE

The pink brake: 15492 used to be red, and racers still call that sponge the pink brake. Tamiya switched it to white in January 2023 and says the material is unchanged, but the old red sheets sold out and still change hands for more. 95566 was a 2020 limited 1 mm red sheet with a finer foam.

Brake options ブレーキの選択肢

This car runs strong white at the back and mild blue at the front. Here's the whole range, strongest to weakest.

STRONG



15492 · IN THIS BUILD

Brake sponge set, white

1 · 2 · 3 mm. High friction: the rear of this car. ¥484.



15441

Grey, from the 3-type set

About 2 mm. The strongest of the three. ¥550 the set.



15492 OLD · 95566

The pink brake (red)

The old red 15492, and the 2020 limited fine-foam 1 mm. Out of production.

MEDIUM AND MILD



15441

Black, from the 3-type set

About 2 mm. Medium braking.



15512 · IN THIS BUILD

Brake sponge set, mild blue

1 · 2 · 3 mm. Less bite than white: the front of this car. ¥484.



15441

Green, from the 3-type set

About 2 mm. The weakest of the three.

Thickness and height matter as much as colour: a thicker or lower sponge touches the track sooner. Change one thing at a time. B-MAX: you may cut sponge, never heat-form it, and keep 1 mm of ground clearance.

Rear plate options プレートの選択肢

Other stays and brake stays for the tail. Each row starts with what this car runs.

REAR ROLLER STAY



95433 · IN THIS BUILD
HG carbon full-cowl stay
This car's choice at both ends, over 15472. ¥1,034.



15497
HG carbon bar for 13/19 mm
A straight bar at full width. FRP twin: 15530. ¥1,320.



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



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

LOWER PLATE · BRAKE STAY



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



15518 · IN THIS BUILD
FRP rear brake stay set
FRP, sponge included. ¥418.

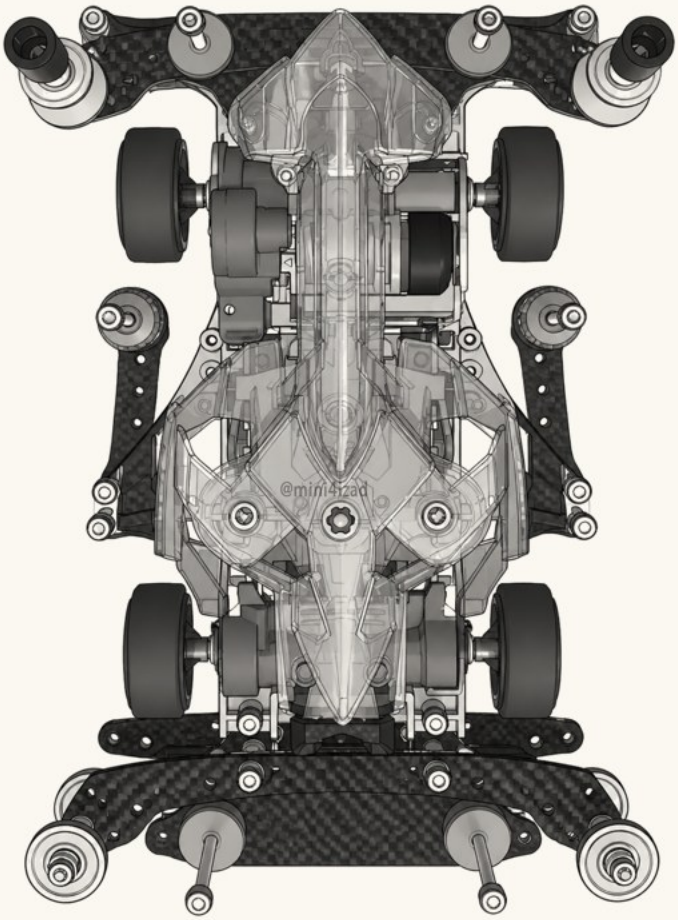


15550
HG carbon brake stay 1.5 mm
Bigger sponge area, clear of the rollers. ¥1,078.

SECTION 04

THE SIDES

サイド



AR-pattern FRP arms off the FM-A's aero side stays, with taped pairs of weights out wide.

SIDE ARMS AND DAMPERS 23

Side arms サイドステー

The FM-A takes the AR's side arms straight on: no adapter, just two screws a side.



FRP ARM · 15459
ONE OF A PAIR



AT THE TIP
2 BOWLS, TAPED

FIG. 10 · THE SIDE ARMS AND THEIR DAMPERS · DRAWINGS @MINI4IZAD, PRINT LEFT OFF

The FM-A's side stays are shaped like a wing section, and the AR chassis arms bolt to them directly. 15459, the AR chassis side mass damper set, gives you the FRP arms and their weights in one box, and Tamiya lists it for the FM-A.

At each arm tip sit two bowl weights stacked and wrapped in 15463, Tamiya's blue multipurpose tape, so the pair moves as one heavier weight (about 6.8 g), out wide of the wheels where it calms a landing.

FRP ARMS	15459 · ¥682
WEIGHTS	2 bowls a side
PAIR	about 6.8 g
TAPE	15463 · ¥396

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.

RULES CHECK · TAPED DAMPERS

B-MAX ver5.0 doesn't mention taping or stacking mass dampers. Rule 13 lets dampers move as they're designed to, and Tamiya says its 15463 tape is allowed at official races, but it's the scrutineer's call: check with your organiser before race day.

SECTION 05

WHEELS & TYRES

タイヤとホイール



Small 24 mm tyres on 3-spoke wheels: low and quick to turn, with a hard rear to carry speed.

TYRES 25 WHEEL OPTIONS 26 SHAFTS 27

Tyres タイヤ

Same 24 mm narrow tyre size at both ends; low friction at the front, super hard at the back.



FIG. 11 · TYRE HARDNESS, TAMIYA'S SCALE · WHERE THIS CAR'S TYRES SIT

Front: 15541, Tamiya's small-diameter low-friction narrow tyres, 24 mm, on black carbon-reinforced 3-spoke wheels. Low friction slides rather than grips at the fence, so the nose turns in cleanly.

Rear: 15543, the super-hard version of the same 24 mm narrow tyre on the same 3-spoke wheel. The car runs 95635, a special edition of that set that names the FM-A; 15543 is the regular one. A 24 mm tyre sits the car low, which helps on climbs and in tight sections.

FRONT	15541 · ¥440
REAR	15543 · ¥396
CAR RUNS	95635 · ¥396
SIZE	24 mm narrow
WHEEL	Carbon 3-spoke

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

Change the diameter and you change the car: small sits low and climbs well, large runs faster on long straights.

SMALL · ABOUT 24 MM



3-SPOKE SWEPT + LUG TYRE



15543 · SUPER HARD

MEDIUM · ABOUT 26 MM



12-SPOKE + DARK TYRE



DISH 12-SLOT + WHITE TYRE



5 SPLIT-SPOKE WHEEL



6-SPOKE STAR WHEEL

FIG. 12 · WHEELS AND TYRES, BY SIZE · DRAWINGS @MINI4IZAD

ITEM	SIZE	TYRE	WHEEL	WHEN TO USE IT	¥
15541	24 mm	Low friction, narrow	Carbon 3-spoke	Front of this build: clean turn-in	440
15543	24 mm	Super hard, narrow	Carbon 3-spoke	Rear of this build: holds speed	396
15534	26 mm	Low friction, low-profile	Carbon fin	Taller all-rounder, front	440
15542	26 mm	Super hard, low-profile	Carbon Y-spoke	Taller all-rounder, rear	396
15545	26 mm	Hard, low-profile, grey	Carbon dish	Hard, not super hard	352

15541, 15534, 15542 and 15545 are on Tamiya's FM-A list; 15543 is listed for Super X/XX, and its special edition 95635 for the FM-A. Tyre size range under the rules: 22 to 35 mm.

72 mm shafts 72mmシャフト

Longer than the FM-A's stock axles, so they can pass right through drilled wheels.

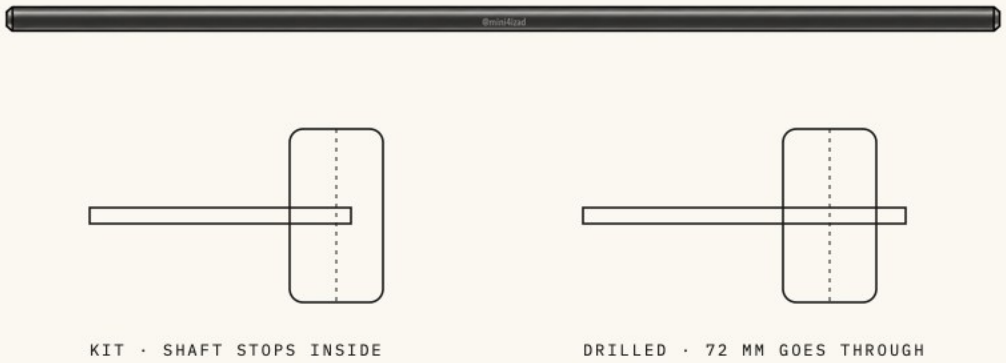


FIG. 13 · THE 72 MM SHAFT, AND WHY IT GOES THROUGH THE WHEEL

Out of the box the FM-A runs 60 mm axles; Tamiya's FM-A list carries 60 mm shafts (15416, 15348, 15440). This car fits 72 mm instead, through wheels drilled clean through, so a wheel can't walk off the end at speed. B-MAX names the through-shaft as one of its few allowed changes.

15417 is the black reinforced 72 mm shaft, four to a pack, with more carbon in the steel than a kit shaft so it resists bending. Its official list names Super X and XX; on the FM-A it only works with the drilled wheel.

ITEM	15417 ×4
LENGTH	72 mm
PRICE	¥220
STOCK FM-A	60 mm

> 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



Nothing on this car is stronger than the screw holding it on.

SCREWS 29 REAR STACK 30 FRONT STACK 31 NUTS, SPACERS, CAPS 32

Screws ビス

Two screws do the heavy work here: 30 mm countersunk for the dampers, 30 mm cap screws for the rollers.



COUNTERSUNK · 30 MM
15510

CAP SCREW · 30 MM
15454

FIG. 14 · THE TWO 30 MM SCREWS, DRAWN TO THE SAME SCALE · DRAWINGS @MINI4IZAD

The dampers stand on 30 mm countersunk screws from 15510, a stainless set with four of each length from 10 to 30 mm. A countersunk head sits flush once the plate is countersunk with Tamiya's 2 mm bit (74130), so nothing hangs below the car to catch the track.

The rollers hang on 15454 cap screws: black, about one and a half times as stiff in bending as the stainless screws, by Tamiya's figure, with a hex socket head and a 1.5 mm key in the box. They're threaded only near the tip, which matters for the spacer count on the next page.

COUNTERSUNK	15510 · ¥330
30 MM IN SET	×4
CAP SCREWS	15454 · ¥594
LENGTHS	25 / 30 mm ×5
BIT	74130

B-MAX RULING · §6 · Q&A

Countersinking existing holes in FRP or carbon plates and the chassis is allowed. New holes are not.

GARAGE NOTE · @MINI4IZAD

Short screws, nuts and washers for the rest of the car come from the kit and screw sets A and B (15232, 15233).

The roller stack: rear

One rear 30 mm cap screw, floated apart and put back together.

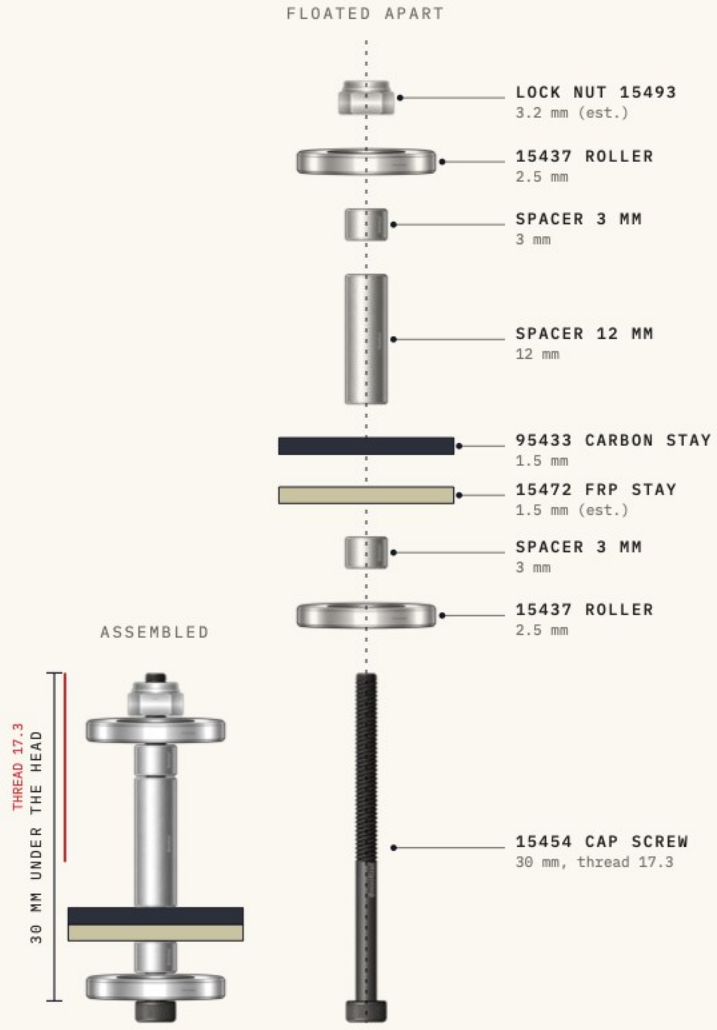


FIG. 15 · REAR CORNER, SIDE VIEW, TO SCALE · EST. = ESTIMATED · DRAWINGS @MINI4IZAD

From the head up: a 15437 roller under the stay, a 3 mm spacer, then the stay pair, the 15472 FRP twin with the 95433 carbon on top of it. Above the stay go a 12 mm and a 3 mm spacer, the second 15437, and a red lock nut on top.

The two spacers above the stay set the gap between the rollers, so the upper one meets a leaning car higher on the fence.

The stack comes to about 29.2 mm, which leaves about 0.8 mm of thread past the nut. The 15437 is 2.5 mm thick, measured with calipers by TOYz BAR; the FRP thickness and the spacer choice are estimates, so measure your own car.

SCREW	15454 · 30 mm cap
STACK	about 29.2 mm
SPACERS	3 · 12 + 3 mm
ROLLERS	15437 ×2
NUT	15493 red lock nut

The roller stack: front

One front 30 mm cap screw: two rollers, the stay, and the tube stabiliser on top.

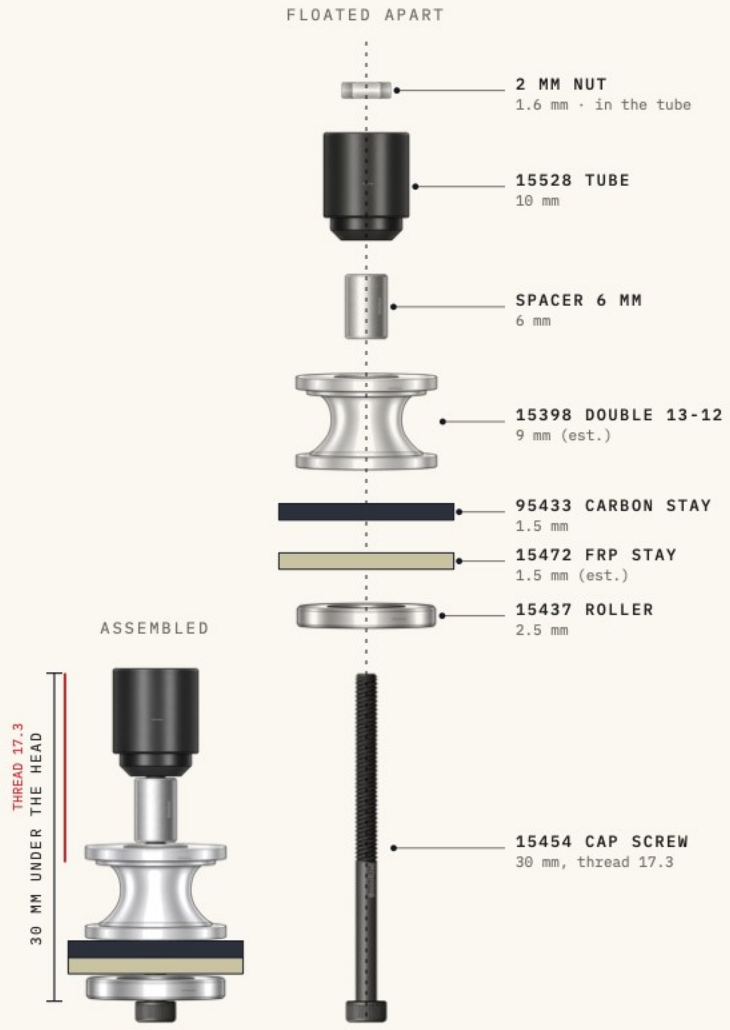


FIG. 16 · FRONT CORNER, SIDE VIEW, TO SCALE · EST. = ESTIMATED · DRAWINGS @MINI4IZAD

From the head up: a 15437 roller under the stay, the 15472 and 95433 pair (carbon on top), then the 13-12 mm double roller above it. A 6 mm spacer lifts the 15528 tube clear of the double roller.

The plain 2 mm nut goes on last and locks the stack from the top, down inside the tube, out of sight; the tube hides it and the screw tip.

About 30.5 mm in all, so the screw tip stays just inside the top of the tube. The 15437 is a caliper figure (2.5 mm, TOYz BAR); the double roller's height and the spacer are estimates: check yours.

SCREW	15454 · 30 mm cap
STACK	about 30.5 mm
ROLLERS	15437 · 15398
SPACER	6 mm
TUBE	15528, nut inside

Nuts, spacers, caps ナット・スペーサー

The last parts on the car, and two of them are rules, not choices.

PART	ITEM	¥	JOB
2 mm aluminium lock nut, red ×5	15493	550	Tops every roller screw
Aluminium spacer set	15473	286	12 · 6.7 · 6 · 3 · 1.5 mm
Ball stabi caps, monochrome	15385	220	Covers a bare thread
Quick-release body catch	15406	198	Holds the body on

Each long screw here finishes in a red aluminium lock nut, and aluminium spacers set the height of every roller. Tamiya's ball caps screw onto bare thread; on long screws they become stabiliser poles.

Two of these the rules require. Any thread sticking out of the car has to be covered, by a ball cap or a rubber pipe, and B-MAX insists on 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

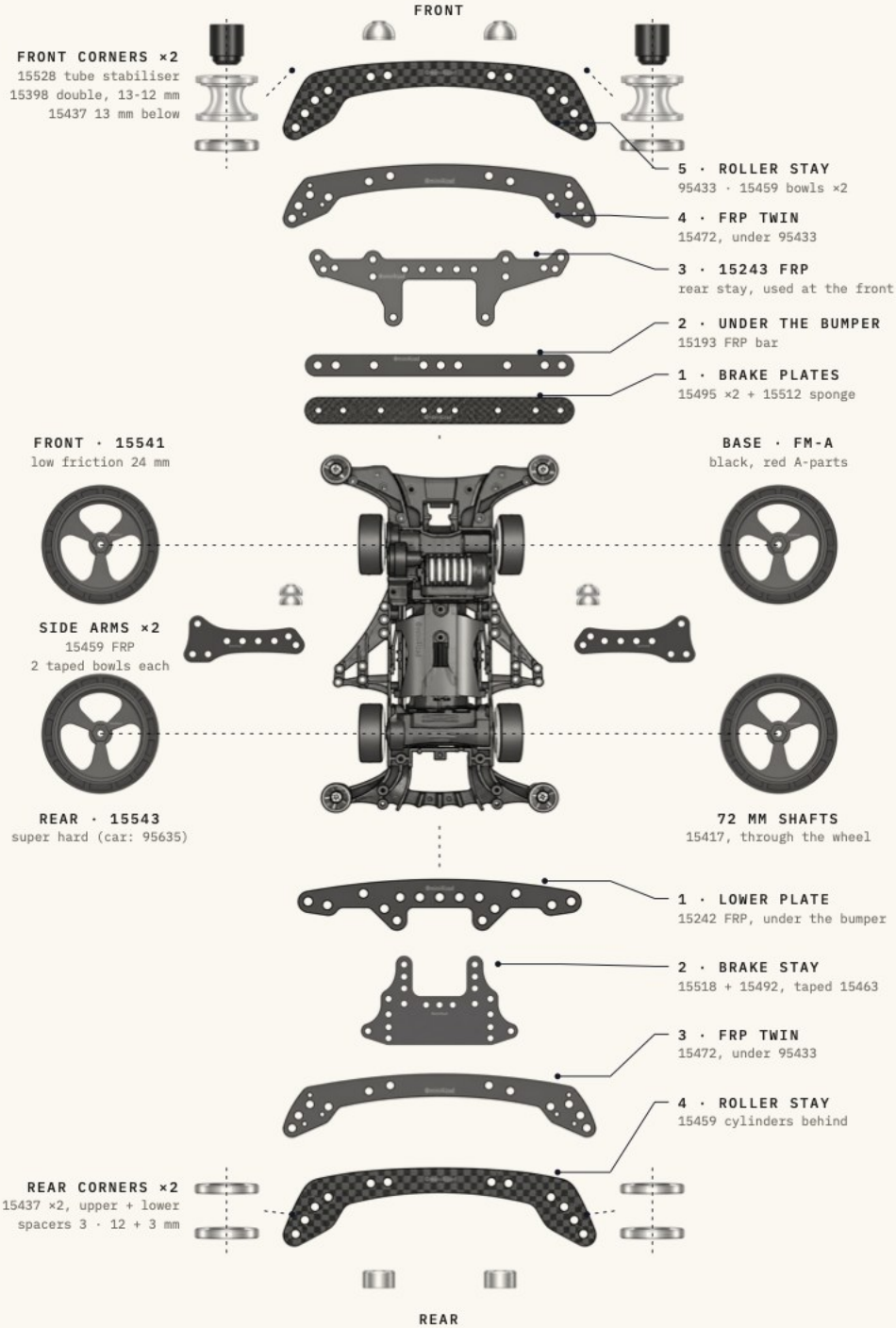


FIG. 17 · THE WHOLE CAR, FLOATED APART · TOP DOWN, FRONT UP · NOT TO SCALE · DRAWINGS @MINI4IZAD

Every part, in one list.

Tamiya Japan list prices with tax, 23 October 2026. Shop prices vary.

ITEM	PART	SECTION	¥
FM-A kit	Any FM-A kit (red A-parts: 19452 Brocken Gigant Premium)	Base	kit
15236	High Speed Counter Gear Set (4:1 / 4.2:1)	Base	330
94773	AO-1019 G-2 Crown Gear (orange ×10)	Base	176
15234	Super X Hollow Lightweight Propeller Shaft	Base	154
15237	Super X Gold Terminal	Base	330
95433	HG Carbon Front Stay 1.5 mm (Full-Cowl Type), front + rear	Front · Rear	2,068 (2×)
15472	FRP Wide Front Stay (Full-Cowl Type), front + rear	Front · Rear	572 (2×)
15243	Super X FRP Rear Roller Stay (used at the front)	Front	242
15193	FRP Multi Reinforcing Plate Set	Front	220
15495	HG Carbon Multi Reinforcing Plate 1.5 mm	Front	2,420 (2×)
15398	Double Aluminium Rollers 13-12 mm	Front	1,210
15437	13 mm All-Aluminium Ball-Race Rollers (Ringless)	Front · Rear	2,310 (3×)
15528	Hi-Mount Tube Stabilizer Set (Black)	Front	264
15242	Super X FRP Multi Reinforcing Plate	Rear	220
15518	FRP Rear Brake Stay Set	Brakes	418
15492	Brake Sponge Set 1/2/3 mm (White)	Brakes	484
15463	Mini 4WD Multipurpose Tape (10 mm, Blue)	Brakes	396
15512	Brake Sponge Set, Mild 1/2/3 mm (Blue)	Brakes	484
15459	AR Chassis Side Mass Damper Set (arms + bowl/cylinder weights)	Front · Rear · Sides	2,046 (3×)
15541	Low Friction 24 mm Narrow + 3-Spoke Wheel	Wheels	440
15543	Super Hard 24 mm Narrow + 3-Spoke Wheel (car: 95635)	Wheels	396
15417	72 mm Black Reinforced Shafts ×4	Wheels	220
15510	Stainless Countersunk Screws 10-30 mm	Hardware	330
15454	2 mm Cap Screw Set (25 / 30 mm)	Hardware	594
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		**17,578**

THE TOTAL IN OTHER CURRENCIES

JPY	USD	EUR	MYR	PHP	IDR
¥17,578	112	100	457	7,110	2,023,000

About, at European Central Bank rates, 22 Oct 2026. A rough guide: shop prices and rates move. These are Japan list prices: the same parts usually cost more elsewhere once import, shipping and local shop margins are added, so treat the totals as a starting point.

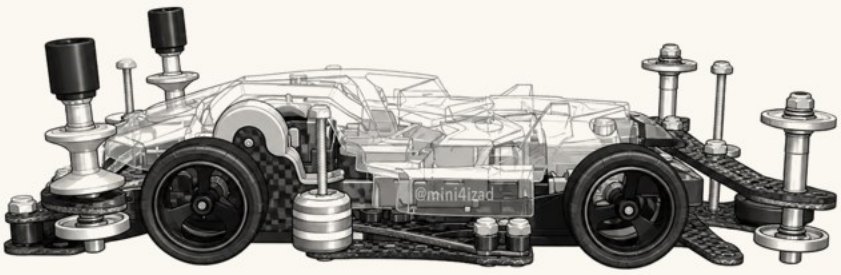
Where this comes from.

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. Every rule is covered in the companion book, ***B-MAX GP Rules v5.0 Illustrated***.

Parts. Tamiya Japan product pages and its FM-A chassis parts list (417 items), read 23 October 2026: names, specifications, fit and prices. Tamiya Malaysia (tamiya.com.my) for 95379 and 95635. Screw dimensions measured on Tamiya's product photos. The 2026 Tamiya Mini 4WD book for the Japan Cup motor note.

The car. The FM-A setup of @mrfarhanfpv, redrawn as vector art from photos of his build (@mini4izad). The spacer page is an estimate from part sizes, not a measurement of his car.

Unofficial. Not connected with TAMIYA Inc. or the Basic-MAX GP Committee. Rules get revised: check basic-max.com and your event's rules before race day.



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