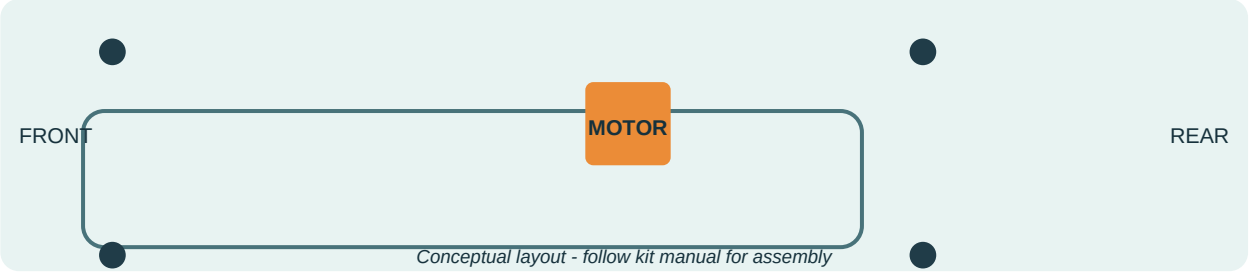
MS CHASSIS
B-MAX build guide

An experienced racer's starting recipe, assembly sequence and track-test worksheet. Use the exact kit manual and the event's latest rule notice at inspection.



Conceptual layout - follow kit manual for assembly

01 Platform and race premise

Reference kit: Avante Mk.II 18614. **Layout:** midship dual-shaft; **wheelbase:** 80 mm; **reference-kit gearing:** 4:1. Distinctive hardware: three-piece nose, center and tail units. Other kits using this chassis may ship with different gears, wheels or tyres.

02 Starting parts and optional upgrades

Base kit	Avante Mk.II 18614; retain its matched kit gears, wheels, tyres, body and mounting hardware.
Motor	15489 Atomic-Tuned 2 PRO. Pinions are sold separately: use the correct kit-specified plastic pinion(s), fitted to the manual's depth.
Rollers	Start with kit plastic rollers. Optional: 15408 13 mm plastic rollers with long stabilizing poles; fit to existing mounts and check height. After baseline runs, 15437 aluminum ball-race rollers are a B-MAX trial, subject to width and mounting checks.
Axle support	Retain kit supports. Optional 15523: 620 plastic bearings for wheel shafts; its 520 pieces are for PRO counter gears. Do not force an incompatible seat.
Plate / dampers	Optional: 15435 Mini 4WD Basic Tune-Up Set. Check the set instructions; omit parts needing prohibited chassis processing. Check body clearance and dimensions.

Purchase check: Tamiya compatibility listings do not guarantee body clearance or local class approval. Confirm the exact package and all fasteners before racing.

03 Assembly order

1. Join the nose and tail units squarely to the center section, then check both axles are parallel.

2. Assemble the kit's 4:1 gear pair without mixing counter/spur pieces. Spin the drivetrain with each unit installed in turn to isolate drag introduced by a joint.

3. Install the kit wheels and uncut tyres in equal front/rear size. Verify every wheel is fully seated, then measure ground clearance with race batteries installed.

4. Fit axle supports and rollers in their correct seats/mounts. Secure screws without bending stays; spin rollers and remeasure width and height. Keep shaft ends covered.

5. Trial-fit 15435 on the three-piece chassis. Its compatibility warning allows for installations needing modification; omit any part needing prohibited chassis work. Inspect unit joints after impacts.

6. Run several full laps on the intended course. Record lap completion, ejection point, jump attitude and motor/battery combination before changing one variable.

04 Track tuning and fault isolation

Test suggestions, not measured performance claims: For repeated jump exits, first compare the landing with a lower-speed motor, then move legal damper mass one position at a time. Check the nose joint after each crash.

Possible cause to inspect: A new wobble after an impact may come from a partially unseated nose or tail unit, even when the rollers look straight.

Baseline	Record 3-5 clean runs, course layout, motor, batteries, kit ratio, tyres and roller holes.
Corner / lane change	Move or change one permitted roller variable; recheck width, free rotation and body/track clearance.
Slope / jump	Compare motor speed first, then one permitted brake or damper setting. Preserve the required ground clearance.
Drivetrain	If speed fades or noise rises, stop and inspect axle seating, gear pair and cover fit before using a faster ratio.

05 Inspection gate

1. Confirm the event uses Basic-MAX GP v5.0 and note its local amendments; apply Tamiya competition dimensions, mass, battery and safety checks.

2. No chassis cutting or new holes. V5 permits countersinking existing chassis/plate holes; its FAQ permits screw-hole breakthrough and 2 mm enlargement. Keep this baseline unprocessed.

3. Use the v5 restricted-zone diagram when locating dampers and plates. Plates must be firmly fixed; brakes/skids may contact the track but must not damage it. Use prescribed roller and gear combinations.

4. Secure a decorated body with its catch. Interference cuts: within 3 mm of interference. Tyre/roller diameter wear of 1 mm or more, or damper holes reaching 3 mm, fails the detailed rules. Do not split the body.

06 Sources and limits

Tamiya chassis catalogue | Avante Mk.II 18614 | Tamiya competition rules | Tamiya gear matching chart | Tamiya setup guide

Basic-MAX GP v5.0. Rules and product availability can change. This guide is an editorial build hypothesis, not an official rule interpretation or a certified parts list. Event scrutineers make the final decision.