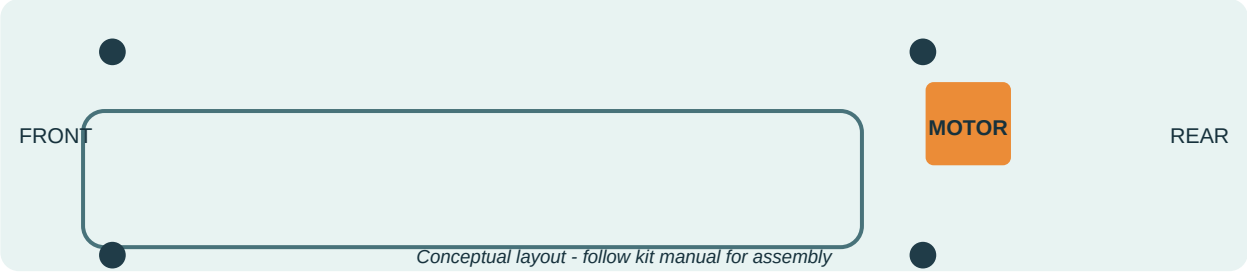
AR CHASSIS
B-MAX build guide

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: Aero Avante 18701. **Layout:** rear-mounted single-shaft; **wheelbase:** 82 mm; **reference-kit gearing:** 4.2:1. Distinctive hardware: low battery placement, underside panel and six kit rollers. Other kits using this chassis may ship with different gears, wheels or tyres.

02 Starting parts and optional upgrades

Base kit	Aero Avante 18701; retain its matched kit gears, wheels, tyres, body and mounting hardware.
Motor	15486 Atomic-Tuned 2. 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: 15450 AR 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. Keep the low-mounted batteries and underpanel unobstructed; confirm the panel latches before testing.

2. Use the kit's matched 4.2:1 gears, confirmed by Tamiya USA for item 18701. Check free rotation, the rear diffuser over the drivetrain and the separate battery underpanel.

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. Begin with the six included low-friction rollers, then trial-fit the 15450 FRP and damper hardware on stock holes. Log cornering and landing results separately.

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: On a slope, compare brake contact with battery weight held constant. Low battery placement does not excuse a loose underpanel or a too-low rear stay.

Possible cause to inspect: A sudden drag after a landing often comes from the underside panel or gear cover seating; inspect before changing ratio.

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.

Kit-specific gearing / hardware evidence

06 Sources and limits

Tamiya chassis catalogue | Aero Avante 18701 | 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.