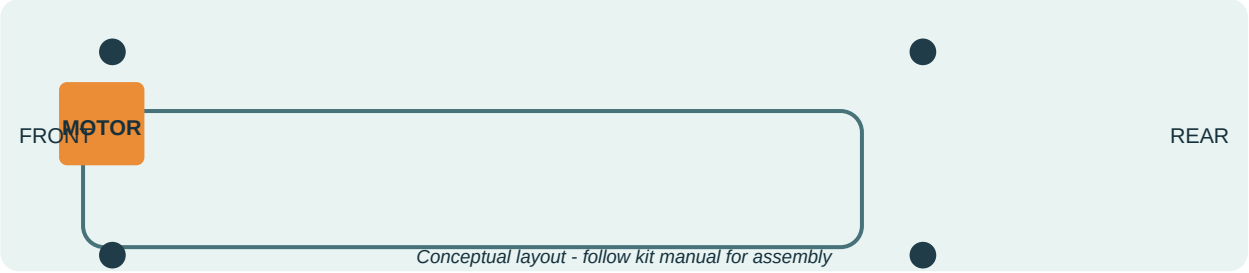
# FM-A CHASSIS
# B-MAX build guide

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:** Rowdy Bull 18707. **Layout:** front-mounted single-shaft; **wheelbase:** 83 mm; **reference-kit gearing:** 3.5:1. Distinctive hardware: front motor, underside access and molded skid. Other kits using this chassis may ship with different gears, wheels or tyres.

## 02 Starting parts and optional upgrades

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| Base kit | Rowdy Bull 18707; 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: 15514 FM-A 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.** Confirm the underside motor-access panel and battery cover are secured as the manual shows; measure clearance under the front skid on a flat surface.

**2.** Keep the kit 3.5:1 gear pair together. Install the single-shaft motor in the front cradle and verify the rear axle turns freely with the underpanel closed.

**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.** Use 15514 as the first plate/damper trial on factory holes. Check front overhang and braking clearance against the 83 mm wheelbase before seeking more front mass.

**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 jump that pitches nose-down, compare front brake contact and speed first. On a lane-change climb, test one front roller setting at a time while retaining clearance.

**Possible cause to inspect:** A scraping front skid can be a clearance or assembly issue; measure ground clearance with race batteries fitted.

| | |
|---|---|
| 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 | Rowdy Bull 18707 | 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.