IKUISTA

TECHNICAL USE & COMPATIBILITY REVIEW

Technical content remains subject to verification.

01. Frame protection films, tapes and stickers
Verify adhesive and finish compatibility, installation fluids and removal methods. Investigate coating delamination, chemical damage and removal marks. Confirm approved products and any heat or solvent restrictions.

02. Cleaners, polishes and surface coatings
Verify material compatibility, concentration and contact time. Review solvents, degreasers and aftermarket coatings. Investigate chemical attack or finish damage rather than assuming every cleaning product is suitable.

03. Repainting, sanding and paint removal
Obtain technical review of stripping, abrasion, heating and repainting. Investigate material loss, heat damage and concealed defects. Confirm permitted repair methods and any applicable temperature limits.

04. Structural alterations
Require manufacturer review before drilling, filing, welding, bonding, thread modification or composite repair. Assess structural weakening and local stress changes. Establish model-specific restrictions.

05. Replacement component compatibility
Verify forks, headsets, bottom brackets, cranks, axles, wheels, brakes, adapters and seatposts. Confirm dimensions, interfaces and load limits. Investigate interference, incorrect fit and abnormal loading.

06. Fasteners and assembly methods
Confirm component-specific torque, sequence, tools, lubricants and assembly compounds. Investigate over-tightening, loosening and thread damage. Do not substitute generic torque values for verified specifications.

07. Seatposts and clamps
Confirm minimum insertion, any maximum insertion limit, clamp position, diameter and torque. Investigate local crushing, slipping and cracking. Verify requirements for both the frame and the fitted seatpost.

08. Cockpit and fork steerer
Confirm cutting instructions, spacer arrangement, expander compatibility and clamping requirements. Investigate steerer damage and incorrect assembly. Obtain limits for the actual fork and cockpit combination.

09. Tyres, rims and tubeless systems
Confirm tyre/rim compatibility, pressure limits and installation methods. Review rim tape, valves and sealant compatibility. Investigate loss of retention, rim damage and installation-related failures.

10. Tyre clearance

Confirm actual tyre dimensions and required clearances for each model. Consider debris accumulation and operating conditions. Investigate frame abrasion or contact rather than relying only on the nominal tyre size.

11. Bags, mudguards, racks, stands and locks
Confirm attachment points, contact protection and accessory load limits. Review straps and clamps on frame tubes. Investigate rubbing, crushing and local overload from an accessory or its attachment.

12. Child seats and trailers
Obtain model-specific compatibility confirmation, including adapters and axles. Confirm attachment and total system load limits. Investigate loads introduced at the frame, axle and mounting points.

13. Transport carriers, packaging and workstands
Confirm approved support and clamping locations and the transport method. Investigate clamp pressure, impacts, movement and abrasion in transit. Define appropriate packaging and inspection procedures.

14. Indoor trainers
Confirm trainer type, axle and adapter compatibility and mounting method. Review side loading and sweat exposure. Investigate mounting damage and corrosion. Establish cleaning and inspection instructions.

15. Intended use category
Confirm the intended use of each model. Review jumps, drops, racing and off-road riding against that category. Do not apply a blanket restriction without checking the bicycle’s actual design and stated intended use.

16. Rider, luggage and system loads
Confirm total system and component-specific limits, including accessories. Define clearly what each stated weight limit includes. Investigate actual loading and the failure mechanism before attributing damage to overload.

17. Crashes, impacts and falls
Define inspection and removal-from-service procedures following impact. Consider visible and hidden damage. Investigate the impact history and whether further riding caused additional damage.

18. Washing and storage
Confirm suitable washing, drying and storage methods. Review pressure washing, immersion, road salt, prolonged moisture and heat exposure. Investigate water ingress, corrosion and material or finish damage.

19. Maintenance requirements
Confirm service items, intervals and inspection criteria for the actual components. Investigate whether an omitted service contributed to the failure. Missing paperwork alone does not establish the technical cause.

20. Wear parts

Define inspection and replacement criteria for chains, sprockets, pads, tyres, bearings and other wear parts. Distinguish ordinary wear from premature failure and consequential damage caused by continued use.

21. Continued riding after warning signs
Prepare stop-use and contact instructions for cracks, looseness, brake faults and other safety concerns. Investigate the initial fault separately from any additional damage caused by continued riding.

22. Electrical conversions and modifications
Obtain technical review of motors, batteries, wiring and mounting changes. Investigate altered loads, heat and structural modifications. Do not assume an unverified conversion is compatible with the bicycle.

23. Repairs and third-party servicing
Confirm correct parts, tools, methods and competence requirements. Investigate workmanship and its relationship to the reported damage. Third-party servicing alone does not identify an installation defect.

24. Noises and cosmetic observations
Investigate the cause of creaks, surface changes and other observations. Do not automatically classify a symptom as cosmetic or harmless. Establish inspection methods and acceptance criteria before publication.