

AUTEL MAXIALIGN

# IWA500 INTELLIGENT WHEEL ALIGNMENT SYSTEM

The Autel MaxiAlign IWA500 is a purpose-built wheel alignment system engineered to do one thing extremely well: deliver fast, precise, and repeatable alignments. With broad vehicle coverage supporting U.S., Asian, and European models from 1975 to current production, its advanced guided workflow begins with server-based vehicle identification, followed by a comprehensive all-systems pre-scan, undercarriage inspection, and tire tread depth and pressure analysis to ensure optimal alignment conditions. Using a mobile five-camera frame, the IWA500

performs standard alignment measurements (rolling diameter, symmetry values) as well as advanced, precise checks such as bump steer, raised-vehicle analysis, wheel-off adjustment, and MaxiToe—Autel's innovative toe-adjustment feature that ensures a perfectly centered steering wheel without a holder. Fully portable from bay to bay, the IWA500 reduces setup and alignment time, delivers real-time feedback for rapid corrections, and streamlines verification and reporting, making it a high-value, high-throughput alignment solution for professional shops.



## SIMPLIFIED & HIGHLY EFFICIENT WHEEL ALIGNMENT

The IWA500 minimizes unnecessary workflow steps, from vehicle identification through adjustment and final measurement. This enables technicians to complete more alignments per day with greater consistency and confidence, while ensuring every repair is performed correctly.

## INDUSTRY-LEADING VEHICLE COVERAGE

The extensive, continuously updated Autel vehicle database ensures the IWA500 uses the latest OE-sourced alignment specifications across domestic, European, Asian, and emerging EV platforms. This guarantees accurate alignments on nearly any vehicle that enters the shop, and future-proofs your bay as new models arrive.



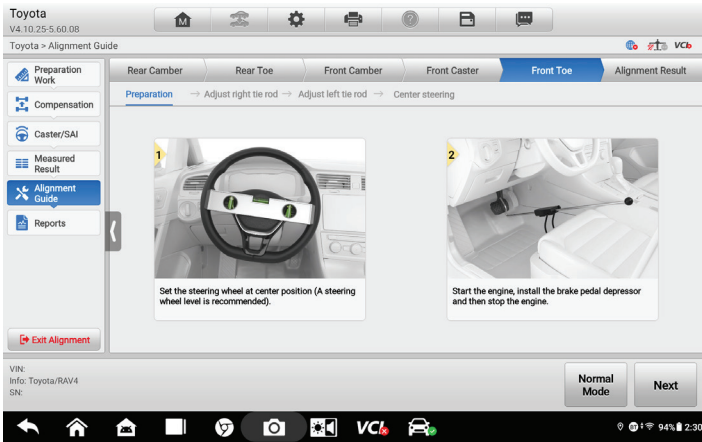
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## GUIDED & INTUITIVE OPERATION FOR EVERY TECHNICIAN

Step-by-step graphical guidance walks technicians through each phase of the alignment process, from setup to final verification. Real-time prompts help prevent errors, shorten the learning curve, and increase throughput—enabling shops to maximize productivity and revenue. Integrated into this guided workflow is MaxiToe, Autel's innovative toe-adjustment feature, which ensures a perfectly centered steering wheel without a steering wheel holder, further simplifying the alignment process and improving workflow consistency.



## INDUSTRY-LEADING ALIGNMENT ACCURACY

The IWA500 delivers repeatable accuracy at an entry-level cost. Its five high-definition, self-calibrating 3D cameras capture measurements with 0.02° accuracy, enabling first-time-correct, OE-spec alignments without the manual steps required by traditional systems. Technicians gain dependable performance, reduced downtime, and consistent results on every vehicle.



## AUTO-TRACKING CROSSBAR HEIGHT

Automated crossbar positioning sets the optimal measurement height, follows the vehicle as the lift moves, and maintains precise target alignment throughout the process. This reduces setup time, prevents camera obstruction, and delivers consistent accuracy on every job.

## COMPREHENSIVE WHEEL ALIGNMENT & MEASUREMENT DATA

The IWA500 provides precise measurements for camber, caster, and toe, paired with enhanced visibility of thrust angle, delivering a complete, professional-level vehicle assessment.

## A STREAMLINED, TABLET-CONTROLLED WORKFLOW

A dedicated Autel tablet unifies wheel-alignment-specific diagnostics, SAS calibration, and wheel alignment into a single, seamless workflow. Technicians can control every step from anywhere in the bay for maximum efficiency and convenience.

## SPECIALIZED ADJUSTMENT FUNCTIONS FOR REAL-WORLD CHALLENGES

- Wheel-Off Mode for improved access on tight suspensions
- Raised-Vehicle Adjustment for limited-clearance designs
- Steering Angle Sensor Relearn to properly complete alignments on modern ADAS-equipped and electronic steering vehicles
- These specialized modes help technicians resolve difficult adjustments quickly, safely, and accurately.

## AUTOMATED VEHICLE ID & SMART SETUP

Auto VID (Vehicle Identification) instantly identifies the vehicle and loads the exact specifications, while graphical setup guidance reduces manual entry and standardizes alignment quality across different technicians.

## COMPREHENSIVE VALIDATION, PROOF, AND REPORTING

The IWA500 generates detailed pre- and post-alignment reports, and OE-spec verification. These reports document the repair, support insurance and audit requirements, and instill confidence in vehicle owners.



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