KDS II Wheel Alignment Systems

Customized for Aligning All BMW Vehicles

HUNTER Engineering Company

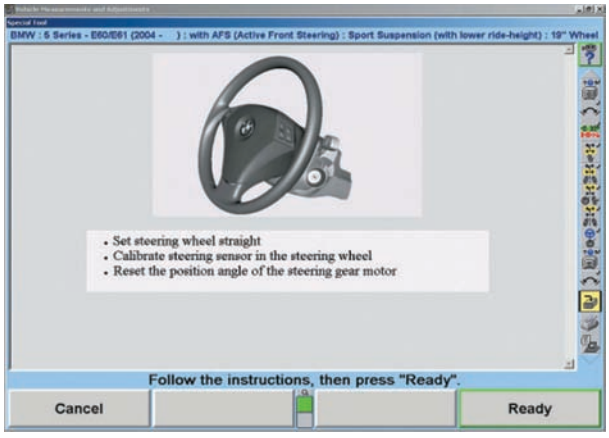
KDS II
Wheel Alignment Systems

Approved Equipment for All BMW Workshops

Hunter has designed the KDS II wheel alignment systems to meet the strict requirements of BMW workshops and provide high-precision alignments on all cars and light commercial vehicles. A customized version of Hunter's WinAlign® alignment software* has been designed to meet the specifications of all BMW Group vehicles, including those equipped with single-joint, spring-loaded front axles and multi-link rear axles with spherical kinematics.

- ***Customized Alignment Software***
  The customized WinAlign alignment software guides the BMW technician through a simple, vehicle-specific alignment process with step-by-step instructions and clear, concise graphics. The workshop is so flexible that it is also possible to move to another part of the program at any time.

- ***Complete BMW Model Support***
  Hunter's customized WinAlign alignment software includes new alignment procedural steps necessary for proper wheel alignments on all BMW models.



KDS II-Plus Wheel Alignment System Provides Picture Perfect® Alignment

Hunter digital imaging alignment sensors use **multi-dimensional** modeling to provide accurate alignment measurements. High-resolution digital cameras* continuously measure wheel target* position and orientation thus providing the same alignment measurements as conventional sensors.

** Patented*

KDS II-Plus Wheel Alignment System Offers:

Speed

- Mount targets
- View measurements

It's that quick!

Durability / Low Long-Term Cost of Ownership

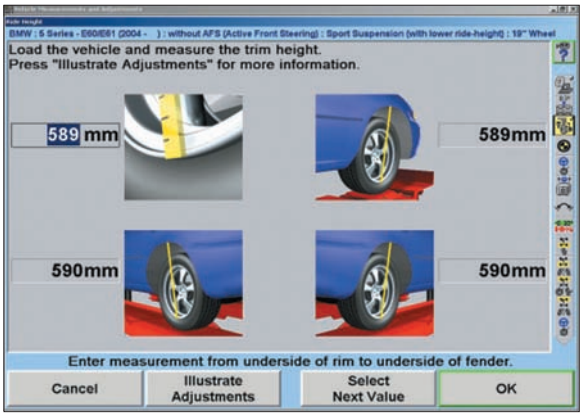
- No electronics at the wheel, no electronic circuitry to damage if targets are dropped
- No moving parts and virtually maintenance-free

Ease of Use

- Wide field of view
- Vehicle can be raised to a comfortable working height for adjustment
- No cables or electronic signals between the targets and the console

Exclusive Electronic Ride Height Feature Provides Exact Measurements in Seconds

Hunter's Electronic Ride Height Measurement System, standard on all KDS II and KDS II-Plus systems, reduces the amount of time it takes to measure and enter data by automating the exact procedures as specified by BMW. Accurate to one millimeter, ride height measurements are instantly displayed.



WinAlign® alignment software uses the ride height measured by the technician to calculate the camber and toe specifications. WinAlign® software also uses the entered ride height and the camber to determine if the traditional loading approach should be used.

The wireless hand-held ride height remote, part no. 20-1885-1, measures ride height and then transmits the measurements to the aligner.

IMPORTANT NOTE:
All BMW models including 3 Series, 5 Series, 6 Series, 7 Series, X3, X5 and Z4 require ride height to be measured.

Without Electronic Ride Height Measurement System, getting measurements is time consuming and prone to error!

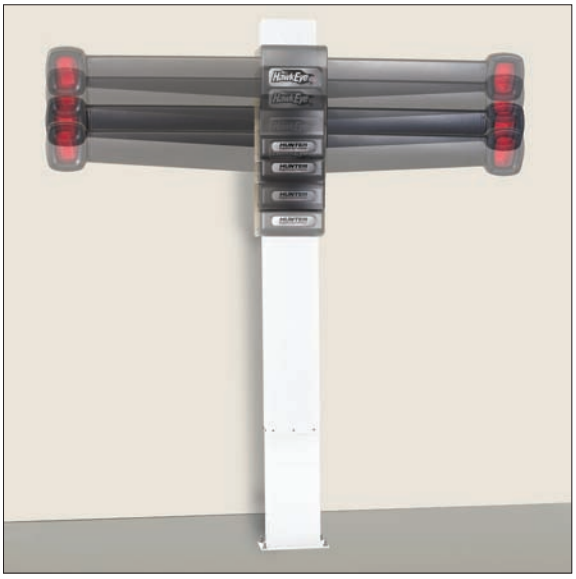
If your aligner is not equipped with Electronic Ride Height Measurement, all ride height measurements must be taken manually and entered manually using a keyboard.

Approved HawkEye™ Sensor Configurations

Digital Imaging Sensors used in the KDS II-Plus Wheel Alignment System provide the same high-speed screen updates as conventional sensors. Four high-resolution digital video cameras* (one per target) continuously monitor targets* at each wheel. Targets have no electronic circuitry to damage if dropped and require no calibration, making them virtually maintenance-free.

The HS401FCBMW Fixed Column (shown with WA245BMW cabinet) fits most service bay applications.

The wall-mount HS401WMBMW is designed for straight or herringbone approach bays. This configuration also easily adapts to mount to the ceiling.



HS401LCBMW provides a vertical camera lift design with a full range of motion to achieve additional lift height or to work with the vehicle lowered to the floor.

** Patented*

KDS II Wheel Alignment System With DSP508XF-B Sensors

Enhanced Reliability

- Instantaneous data transfer between sensors and alignment console
- Sturdy construction reduces potential damage to sensor
- "Foolproof" locking mechanism prevents movement after mounting

Ease of Use

- DSP508XF-B cordless sensors remove hassle of connecting cables
- Cordless sensor batteries provide a full day of continuous operation and are "hot-swapable", ensuring measurements are not lost in the event of a power outage or during battery replacement
- Quick, precise measurement readings
- Fast, simple sensor calibration

DSP508XF-B Cordless Sensors* provide high-speed data communication without the problems associated with cable connectivity.

** Patented*

KDS II BMW Equipment Package Options

	Sensor Type			
	KDS II-Plus			KDS II
Console	HS401FCBMW	HS401WMBMW	HS401LCBMW	DSP508XF-B
WA245BMW	KDS-R6	KDS-R6W	KDS-R6L	KDS-R5
WA234BMW	KDS-S6	KDS-S6W	KDS-S6L	KDS-S5
WA224BMW	KDS-W6	KDS-W6W	NA	NA

BMW HS401 Series Hardware and Standard Software

Current WinAlign Software
Electronic Software Authorization Key for BMW software
Two Years of VID Updates
2 years subscription to WebSpecs®
Intel Core 2 Duo Processor - 1.8 GHz (or greater)
2 GB RAM
80.0 GB SATA (or greater)
Single DVD/CD-RW Drive
USB 2.0
Network Module
Wireless Network Module
Windows Vista Business
Digital-Photo
Digital-Video
HP Color Printer

Standard Accessories:

Keyboard
Mouse
Steering Wheel Holder
Brake Pedal Depressor
Handheld Wireless Remote

WA245BMW Console

WA234BMW Console

WA224BMW Console

BMW HS401 Series Sensors Standard Accessories

Handheld Ride Height Measuring Device - Wireless Remote (20-1885-1)
Stainless Steel Low-Friction Turnplates (20-1962-1)
BMW Quick Clamp Adaptor Support Kit (20-1900-1)
BMW Quick Clamp Adaptor with 120 mm Pins (175-348-1) (4 included)

BMW DSP508XF-B Series Sensors Standard Accessories

Handheld Ride Height Measuring Device - Wireless Remote (20-1885-1)
Pair of Electronic Turnplates with Protective Covers (20-1889-1)
DSP500 BMW Quick Clamp Adaptor Support Kit (20-1899-1)
BMW Quick Clamp Adaptor with 120 mm Pins (175-348-1) (4 included)

BMW-Approved Lift Options

Hunter offers two models of high-precision BMW-approved lifts, a compact scissor lift (RX BMW) and a high-capacity 4-post lift (4P BMW). All Hunter BMW lifts are level within 0.5mm and include ultra-low-friction slipplates.

All lifts include:

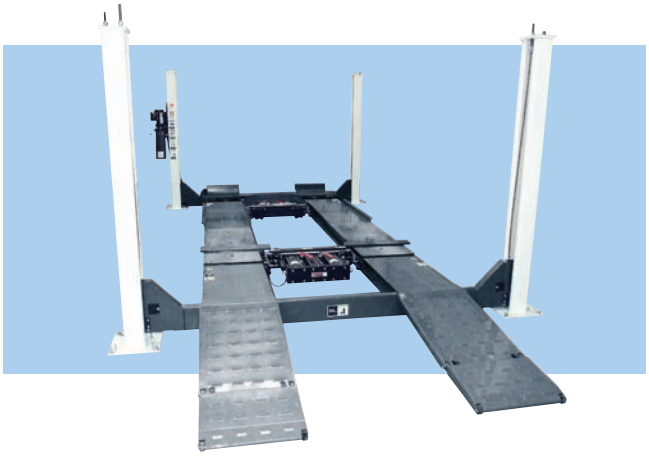
Front Wheel Stops
Two Wheel Chocks
Air Line Kit
Louvered Ramps with built-in Wheel Stops
Two Movable Work Steps

4P BMW

22' 4" overall length
16,000 lbs. (7258kg) capacity
172" max wheelbase capacity
Includes two 8,000 lb. capacity swing jacks

RX BMW

19' 10" length fits in BMW's favored bay (23' - 7m).
9,900-lb. (4500kg) capacity
124" max wheelbase
Includes two 4,500-lb. capacity swing jacks



BMW Wheel Adaptors

Exclusive Easy-to-Use Features Provide Greater Versatility and Extra Durability

Specialized BMW wheel adaptors have new longer tire hooks that easily reach around the tread blocks of BMW vehicles equipped with mud tires or performance tires. The long hooks are also useful on models that have tight gaps between the tire and wheel opening. The lower profile of the long hooks enable them to stay close to the tire.

175-348-1 BMW Wheel Adaptor

Mount quickly and easily to BMW tire/wheel assemblies to speed setup and reduce overall alignment time (quantity 4 standard with KDS II and KDS II-Plus alignment systems).

HUNTER Engineering Company

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WinAlign® alignment software upgrades may require additional and/or upgraded hardware. Because of continuing technological advancements, specifications, models and options are subject to change without notice.

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