

HawkEye® Alignment Systems

Greater profit and productivity through innovation



Alignment as easy as 1-2-3!

HawkEye® Alignment Systems featuring WinAlign software fully integrate the functions of the console, sensors and lift into one highly efficient alignment system.

A series of automated features and intuitive software tools save time and simplify procedures to make alignment as easy as...

step

1

Select the vehicle



- ✓ Recall specs

step

2

Measure angles



- ✓ Install targets
- ✓ Capture measurements in 40 seconds
- ✓ Review "before" results

step

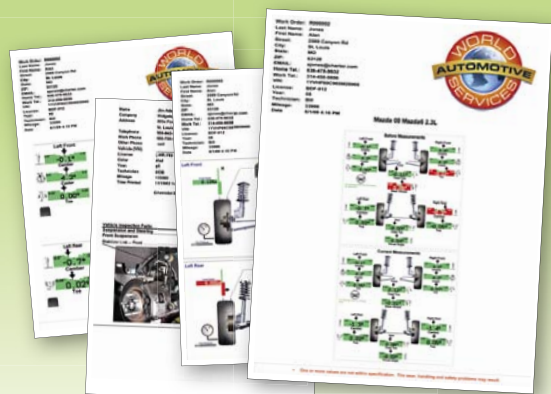
3

Make adjustments



- ✓ Follow the adjustment instructions
- ✓ Print before-and-after results

Present your results!



- ✓ Sell more alignments
- ✓ Generate greater profits

Hunter's latest productivity features!

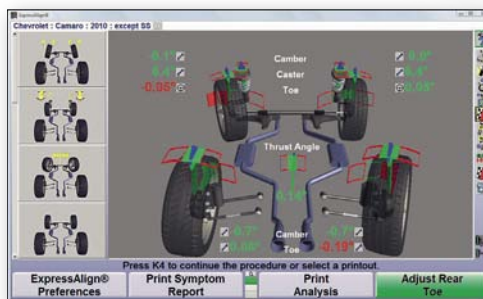


PATENTED



High-resolution cameras!

Four high-resolution cameras provide alignment measurements with pinpoint accuracy.



Simplified adjustments!

Intuitive software features guide every adjustment.

OPTIONAL



Patented integrated steering system reset!

Reset computerized steering systems on a wide variety of vehicles with one simple tool.

EXCLUSIVE



Inflation and no gauges!

Set and record tire pressure automatically without cumbersome hoses and gauges.

EXCLUSIVE



Easy access targets!

Store targets within arm's reach of each wheel for maximum productivity.

PATENTED

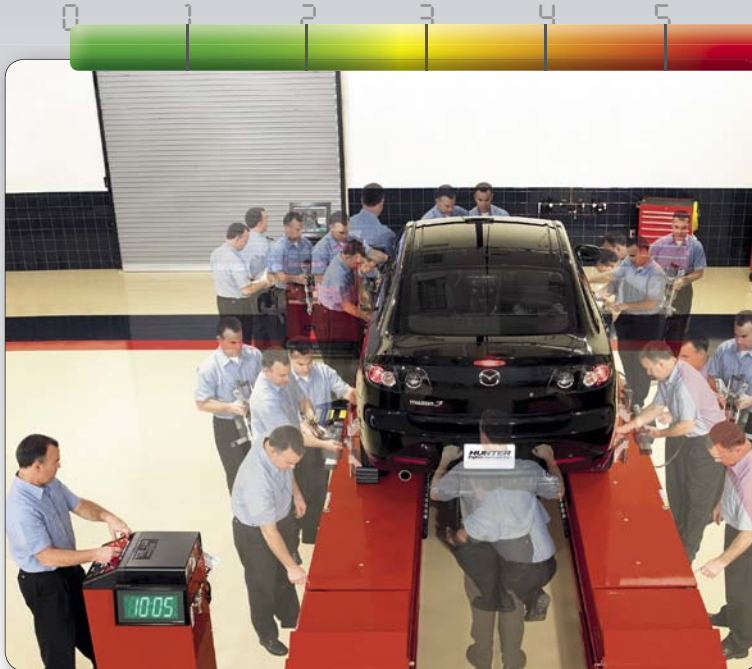


No more lock-pin hassles!

Forget pulling and replacing lock pins by hand.

Previous setups used valuable shop time...

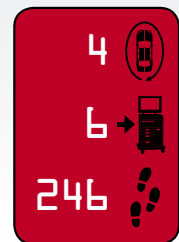
Conventional electronic-sensor system – 10-minute-plus procedure



- ✓ Chock wheels and lift vehicle
- ✓ Jack up front and rear of vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount all 4 sensors, compensate each wheel, and remove pins
- ✓ Lower rear and front of vehicle and jounce
- ✓ Steer to measure caster
- ✓ Print results

10:00+

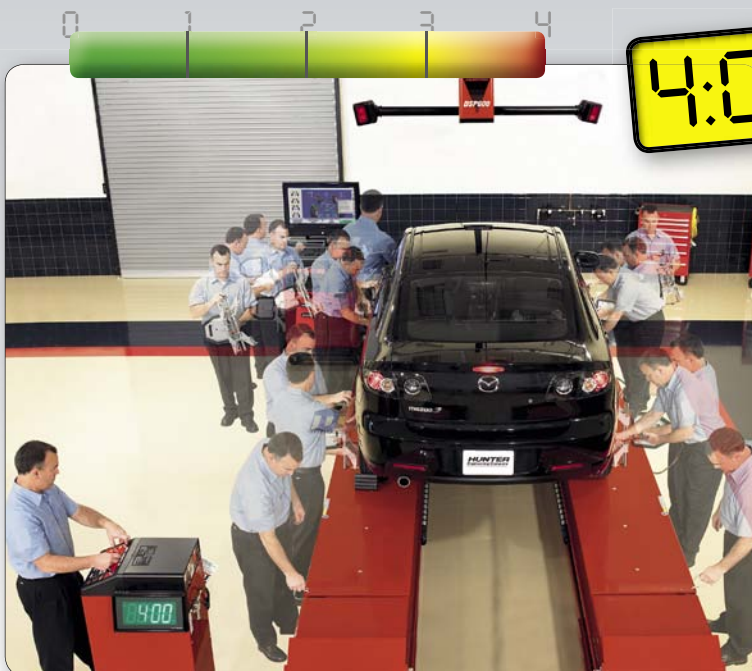
ACTIVITY TRACKER



Older technology requires long set-up times...

10:05 Total

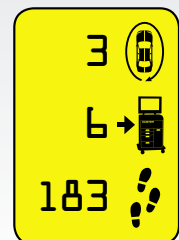
Camera-sensor systems speed up the process



- ✓ Chock wheels and lift vehicle
- ✓ Check air pressure and recall specs
- ✓ Mount targets
- ✓ Roll to compensate
- ✓ Remove pins
- ✓ Steer to measure caster
- ✓ Print results

4:00

ACTIVITY TRACKER



Early camera technology improves efficiency...

4:00 Total

...Today, present your results in just 2 minutes!






Hunter's HawkEye® System and Premium RX Lift capture all readings and produce measurements in 2 minutes!

Hunter's 2-minute procedure

- ✓ Chock wheels and lift vehicle to work height
- ✓ Mount targets and set air pressure
- ✓ Roll forward and back to compensate sensors
- ✓ Recall specs and perform enhanced caster steer
- ✓ Vehicle results print automatically

2:03 Total

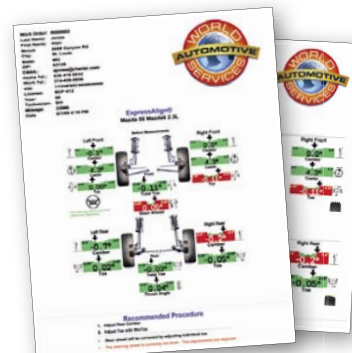
ACTIVITY TRACKER

1	
1	
72	

trip around the vehicle

trip to the console

total walking steps



Fast printouts in 2 minutes!

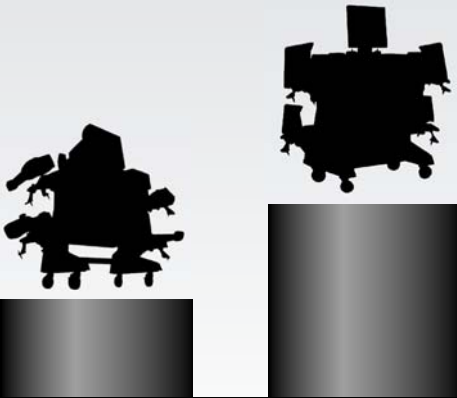
Use detailed printouts featuring your company's logo to sell more work.

When it comes to award-winning software, WinAlign® is unmatched!

The importance of software...



Over 30 years of experience and the largest R&D department in the undercar industry bring you the most profitable and productive software on the market.

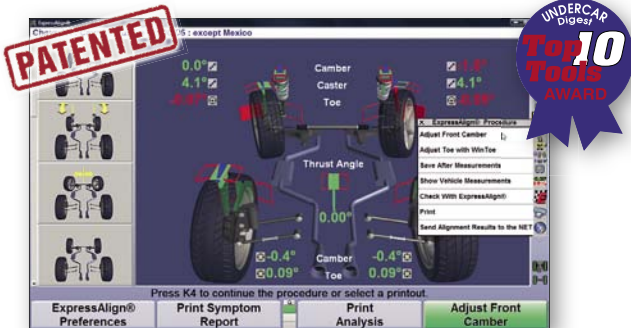


Ordinary systems simply present alignment readings

Ordinary camera systems simply speed up these readings

WinAlign maximizes profit and productivity in your alignment bay

- ▶ The **most extensive** vehicle information database.
- ▶ **Vehicle-specific** procedures guide your technicians with step-by-step instructions.
- ▶ **Patented and award-winning power tools** complete the work accurately the first time, every time.
- ▶ **WinAlign maximizes profit and productivity in your alignment bay.**



ExpressAlign®

Perform every alignment with a streamlined procedure. ExpressAlign analyzes each job and presents the optimal action sequence with the minimum steps required.

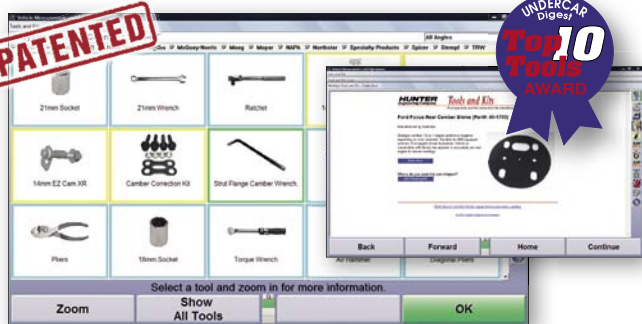


WinToe®

Ensure a straight steering wheel every time without repeated adjustments or using a steering wheel holder.

A timesaver on nearly every alignment

PATENTED

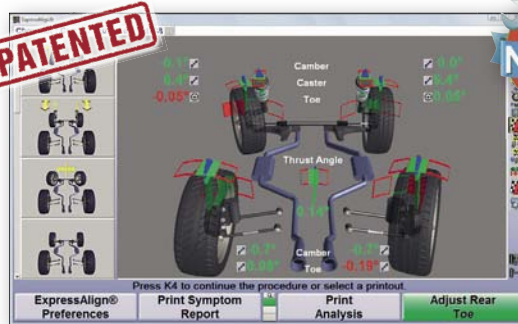


Tools and Kits Database

Save trips back and forth to the tool box. Hunter presents all of the tools and aftermarket correction kits needed for each alignment.

Online ordering supported

PATENTED



Virtual View®

See your alignment job in 3-D using real-time 3-D graphics. Used by experts and novices alike.

Every alignment can be shown in 3-D

PATENTED

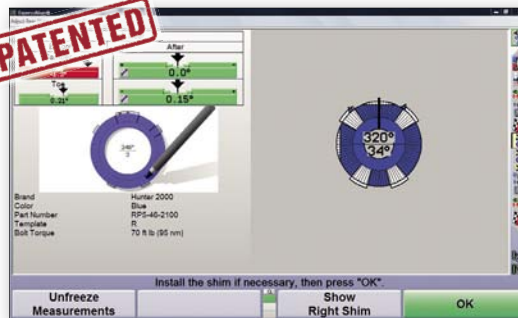


Control Arm Movement Monitor®

Cut adjustment times in half for front-shim, dual-cam or dual-slot vehicles. Step-by-step graphics let you get it right on the first try.

Over 60 million vehicles benefit

PATENTED



Shim-Select® II

Eliminate confusing shim charts and tables. Shim Select II quickly calculates and displays the template you need for proper shim installation.

Over 30 million vehicles benefit

PATENTED

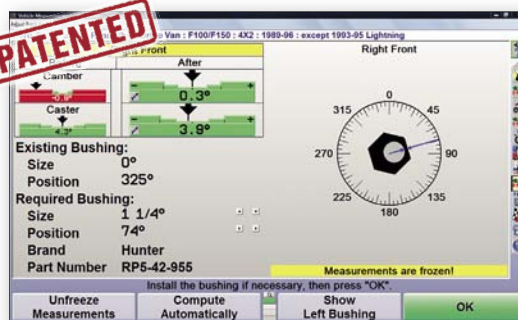


Wheel-Off Adjustment

Speed the alignment process by making adjustments with the wheel removed.*

Available when you need it

PATENTED



Automatic Bushing Calculator®

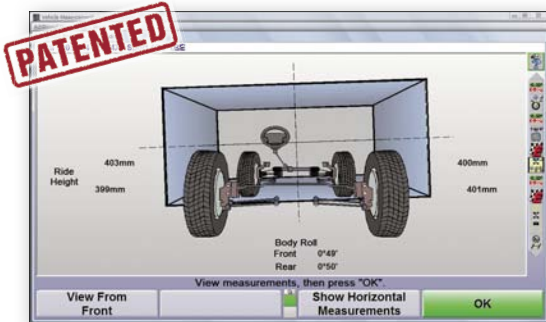
Calculate the proper bushing size and position adjustment without wasting time with a zero bushing.

Over 10 million light trucks and vans benefit

* Requires Wheel-Off Adjustment Kit 20-1978-1.

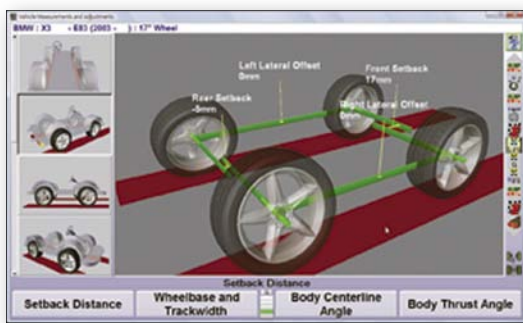
Take your alignment business to the next level!

Perform body shop alignments...



Suspension Body Dimension Audit

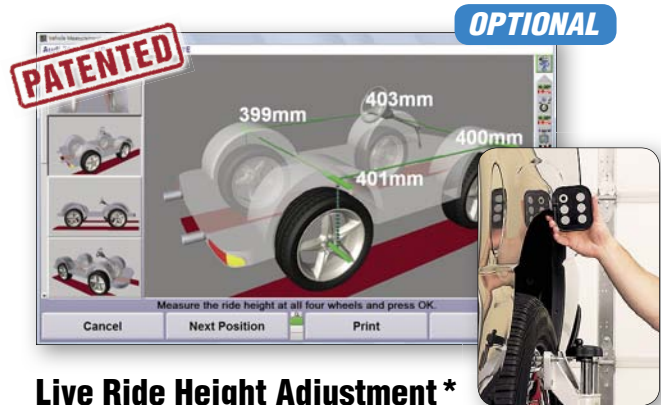
Quickly screen vehicles to determine alignability and collision repair needs.



Symmetry Angle Measurements

Instantly access symmetry angles and setback for your body shop customers.

Perform specialty alignments...



Live Ride Height Adjustment *

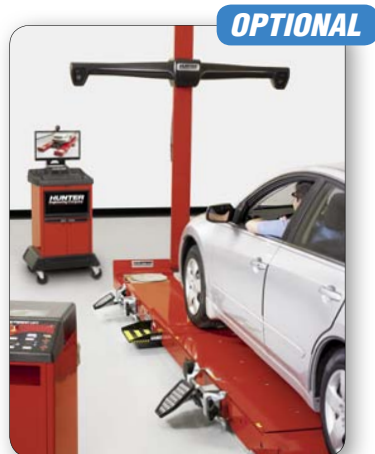
Measure and adjust ride height in real-time.

+ Over 20 million vehicles require ride height measurement to complete alignment service



WinAlign Tuner

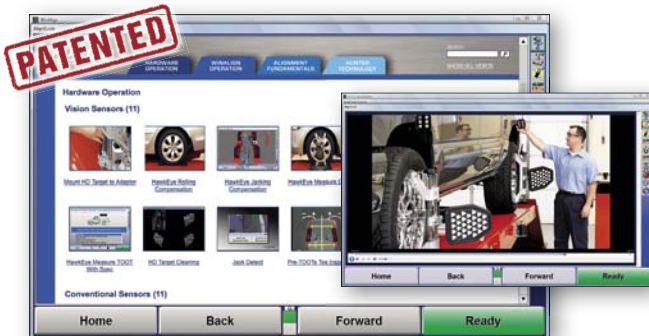
Perform alignments on tuned suspensions and other modified vehicles with tools to monitor tire wear and handling.



Drive-on camera

Safely and easily position a vehicle on a lift with one technician. WinAlign® software supports the use of a drive-on camera, which uses the aligner screen as a guide. (Drive-on camera sold separately.)

Help your customers make informed decisions!



WinAlign® Video Library

400+ videos cover all aspects of wheel alignment today.

- ✓ Educate your customers
- ✓ Find answers to unusual problems
- ✓ Extend your service and profit opportunities
- ✓ Strengthen technician competency



Point & Click Inspection Photos

5,000+ vehicle-specific photos and illustrations to assist your shop.

- ✓ Show your customers their hidden repair needs
- ✓ Guide your technicians to the proper inspection points
- ✓ Extend your service and profit opportunities



The latest specs available online

Download, access and communicate alignment service information through the Internet.

- ✓ WebSpecs®.NET specification database*
- ✓ ShopResults.NET® online service*
- ✓ UnderCarInfo.NET subscription*



WinAlign® printouts help sell work

Explain needed parts and repairs and show completed work to customers using detailed, color-coded printouts.

- ✓ **Clear and detailed printouts help you communicate and build rapport with your customers and sell more alignments**

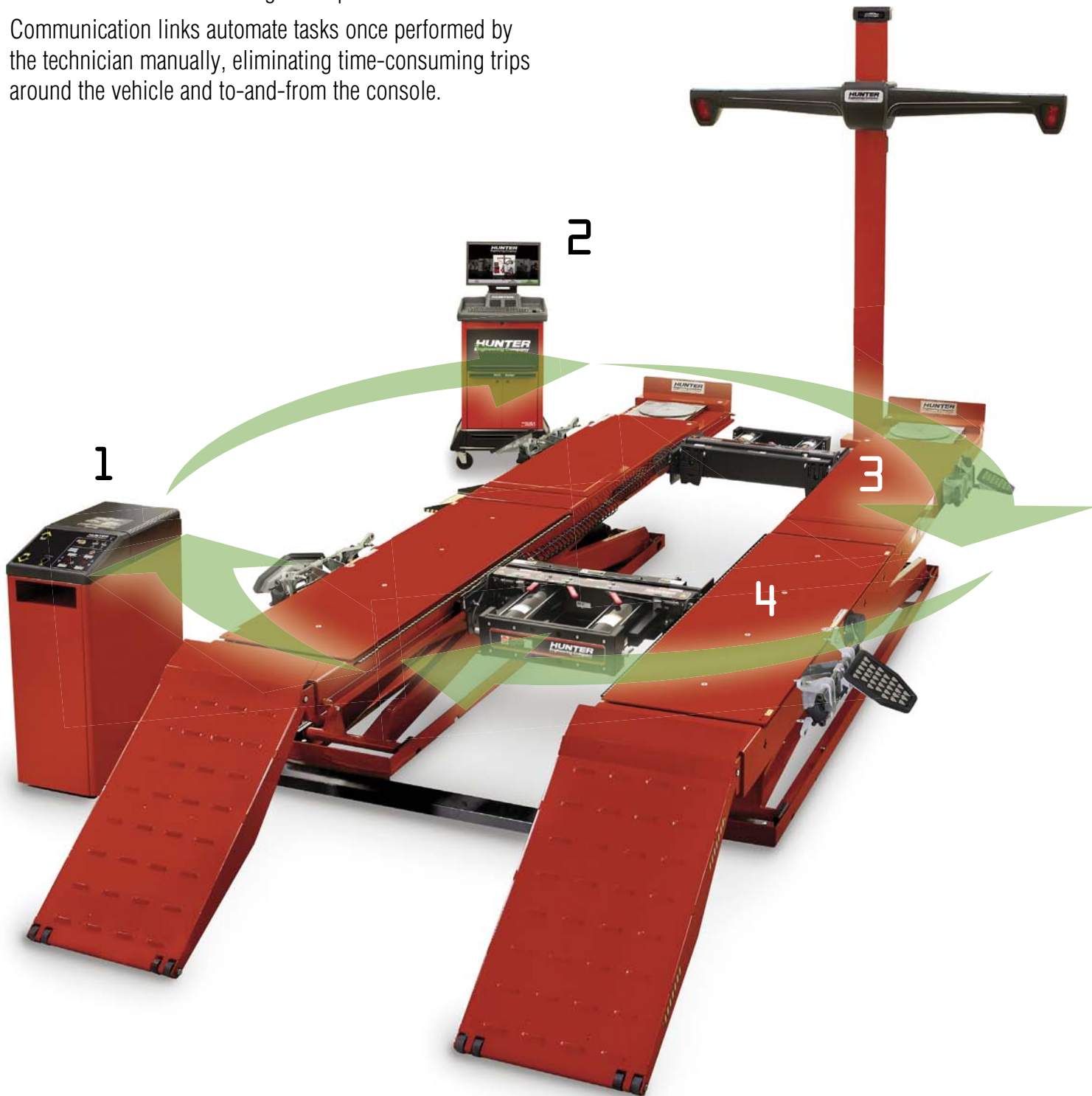
* Two-year free subscription for WebSpecs.NET, one-year free subscription for ShopResults.NET and UnderCarInfo.NET.

FIA Fully Integrated Alignment



FIA streamlines the entire alignment process.

Communication links automate tasks once performed by the technician manually, eliminating time-consuming trips around the vehicle and to-and-from the console.



PATENTED

1



RX Scissor Lift console

- ✓ Raising the vehicle triggers the sensors to look for wheel targets
- ✓ Control PowerSlide® and Inflation Station settings on the lift console



H *Optional AlignLights turn on automatically at alignment height*

PATENTED

2



WinAlign® console

- ✓ Centralized control of entire system
- ✓ Communicate directly with lift to set tire pressure and automatically operate turnplates and slipplates
- ✓ Guide the technician through the alignment process



H *Measurements are taken automatically once fourth target is installed*

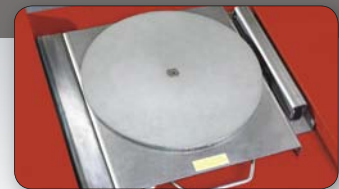
PATENTED

3



PowerSlide® system

- ✓ Slipplates and turnplates automatically lock and unlock at appropriate times
- ✓ No more struggles with lock pins



H *Auto-locking turnplates and slipplates save trips around the vehicle*

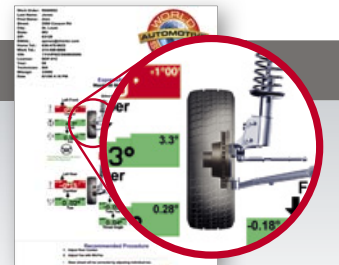
PATENTED

4



Inflation Station

- ✓ Automatically inflate all four tires simultaneously
- ✓ Record starting and final pressure
- ✓ Hose recoils to keep work area clear



H *Software tracks before and after tire pressures for the customer's printout*

CodeLink® – The new last step in alignment service

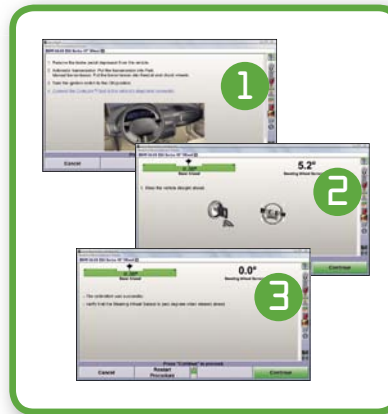
CodeLink® directly "links" the vehicle OBD-II to the aligner to reset steering system sensors, as required by the manufacturer.

Simple and efficient

- ✓ Automatically identifies candidate vehicles
- ✓ Incorporates reset steps into the alignment
- ✓ Uses aligner screen to display instructions
- ✓ Updates automatically with system software upgrades
- ✓ Dedicated alignment tool



One tool replaces multiple OEM scan tools

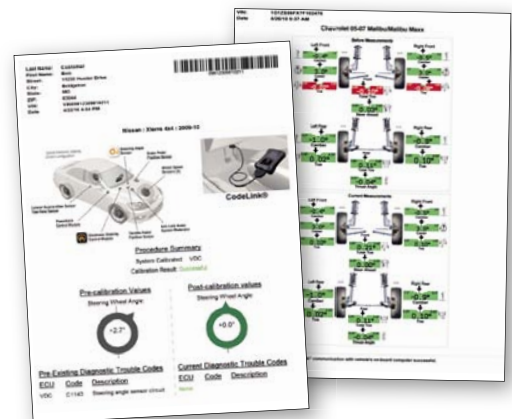


Simplified reset instructions replace confusing OEM procedures

Finishes the job right

- ✓ No other reset tool matches CodeLink's patented integration with the alignment procedure
- ✓ Guarantees precision with exact steering system sensor thresholds
- ✓ Reduces errors that result in customer comebacks

Printed documentation confirms that steering system reset was completed properly



Choose the right alignment console for your shop!



WA470E

Compact Premium
cabinet shown with optional
24-in. (610 mm) widescreen
LCD monitor.

Approximate dimensions:
H x W x D
68.5 x 32 x 25-in.
(1740 x 813 x 635 mm)
(with LCD monitor installed)



WA320E

Wall-Mount
cabinet shown with optional
24-in. (610 mm) widescreen
LCD monitor.

Approximate dimensions:
H x W x D
42.5 x 30.5 x 24-in.
(1080 x 775 x 610 mm)
(with LCD monitor installed)



WA370E

Compact Standard
cabinet shown with optional
24-in. (610 mm) widescreen
LCD monitor.

Approximate dimensions:
H x W x D
68.5 x 32 x 25-in.
(1740 x 813 x 635 mm)
(with LCD monitor installed)



CM with WA370E

Cabinet-Mount Compact Premium
cabinet shown with optional 24-in.
(610 mm) widescreen LCD monitor.

Approximate dimensions:
H x W x D
108 x 105 x 25-in.
(2743 x 2667 x 635 mm)



WA360E

Compact Economy
cabinet shown with optional
24-in. (610 mm) widescreen
LCD monitor.

Approximate dimensions:
H x W x D
68.5 x 32 x 25-in.
(1740 x 813 x 635 mm)
(with LCD monitor installed)

Choose the right sensor package for your shop!



Fixed-column configurations fit most service bay applications.



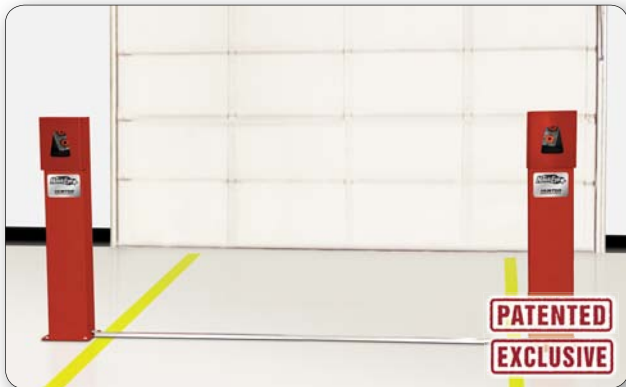
Motorized or manual moveable-camera configurations provide a full range of vertical travel for additional lift height.



Wall- and ceiling-mount configurations are perfect when space is at a premium.



Cabinet-mounted configuration is mobile to service multiple alignment bays and provides a full range of travel for additional lift height.



Manually operated vertical camera configuration provides a full range of travel for additional lift height.



Floor-mounted overhead configurations are ideal for drive-through bays or to accommodate unique applications.

HawkEye® alignment sensor and adaptor specifications



Specifications	Weight of assembly	5 kg (11 lbs.)
	Profile of assembly	457 mm (18 in.)
	Installation time per wheel	10-15 seconds
	Rolling compensation style	Back then forward
	Camera resolution	2,608 x 1,952 (pixels per camera) 20,000,000 (pixels total)
	Track width	2032 mm (80 in.)
	Wheelbase	5334 mm (210 in.)
	Distance to wall*	1676 - 2718 mm (66 - 107 in.)
	Suggested distance*	2514 mm (99 in.)
	Short-bay distance (see site info)*	1676 mm (66 in.)

Secondary Measurements	S.A.I. and included angle	✓
	Setback	✓
	Maximum steering angle	To lock
	PATENTED Live ride height**	Optional
	Wheelbase difference	✓
	Track width difference	✓
	Tread width difference	✓
	Lateral offset	✓
	Rear setback	✓
	Axle offset	✓

Body Measurements	PATENTED SBDA**	Optional
	PATENTED Body angle**	Optional
	PATENTED Body wheel offset & setback**	Optional
	PATENTED Body roll**	Optional

Adjustments	PATENTED Way Up Way Out WinToe	✓
	PATENTED Wheel-Off Adjustment*** (WinAlign® 9 or higher)	Optional

* Refer to site requirements for exact bay specifications.

** Requires Optional Ride Height targets. *** Requires Optional Wheel-Off kit.

Increase revenue with Hunter merchandising!

Introduce your wheel alignment capabilities and educate your customers with great Point-of-Sale options from Hunter.



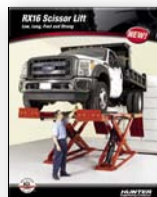
Sell more alignments with *clear and informative* printouts



Customized column cap

Make your alignment bay stand out. Hunter's lighted sensor column cap can be customized with your logo or shop name.

(available for most sensor configurations)



Be sure to check out other Hunter literature for more quality products from Hunter Engineering.

HUNTER Engineering Company

www.hunter.com

11250 Hunter Drive, Bridgeton, MO 63044 USA
Tel: +1 314-731-3020 Fax: +1 314-731-0132
Email: international@hunter.com

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