WHEEL ALIGNMENT SYSTEMS
Real time, live-mapping collision measuring and wheel alignment system in one easy to use equipment package.

**COLLISION MEASURING**

**LIVE MAPPING™**

**NOTHING ELSE MEASURES UP**

Take advantage of LaserLock’s pinpoint technology to identify damage you can see—but primary and secondary damage you can’t see—helping your techs develop more efficient repair plans, eliminating comebacks and helping you find and get paid for hidden damage. Less prep time in creating faster frame measuring, estimates and precision repairs in real time.

**WHEEL ALIGNMENT**

**C3080 BAYSÅVER 3D**

**3D TECHNOLOGY WHEEL ALIGNMENT SYSTEM**

Our industry leading, easy to use wheel alignment system offers cutting-edge technology, productivity and safety features for every shop.

**Customize your measuring system into a comprehensive vehicle repair center!**

Give your shop the power to analyze, execute and document repairs faster and deliver a finished vehicle easier than ever before!

**LASERLOCK ALIGN BENEFITS**

- Additional revenue generator
- Reduce key-to-key cycle times
- Control the total repair
- Align vehicles on frame racks without the need for a dedicated alignment bay
- Save time, money and reduce the liability of transporting customers vehicle to an alignment shop
LaserLock Body Scanner

- Ergonomic scanner design with easy to reach handles
- Compact and lightweight design reduces target blockage and improves line-of-sight, allowing more reference points to be measured
- Comes with high-strength steel tray for placement under vehicles anchored on pulling systems

Live-Mapping™, Self-Leveling Multi-Point LaserLock Scanner

The key is our body scanner which locks in 45 pre-defined high-tech targets in real time. This technology means no vehicle leveling is necessary so technicians deliver on the money reports each time, every time. Its proprietary software helps in identifying incorrect pull set-ups BEFORE they are made to prevent additional damage and speed the repair process.

Lock In Even Greater Shop Profits with LaserLock!

Today's high-tech vehicles are getting harder to repair. The fast set-up and step-by-step built-in tutorial program lets you make higher quality repairs than ever before and make them quickly, accurately and profitably. Reporting on the exact condition of the vehicle frame before, during and after repairs provides indisputable evidence not only of the extent of damage, but the high quality of your repairs.

Laser Accuracy
LaserLock measures more reference points than any other system, and measures all frame types including full-frame and uni-body.

Consistent Accuracy
LaserLock is the only computerized measuring system that can accurately measure engine cradles, cowl hits and A, B or C pillars. LaserLock is also the only system on the market that can measure both struts at the same time.

Out Of Level Measuring
New LaserLock scanner leveling technology allows the system to be moved from a 2 post lift for blueprinting to a frame rack for structural repair in minutes without complicated set up.

Simultaneous Measuring
LaserLock can measure the entire vehicle at the same time, allowing you to repair vehicles with diamond or twist damage, as well as frames with both front and rear damage.

Continuous Measuring
LaserLock can be left in place during repairs to monitor dimensional changes AS THEY OCCUR for faster, higher-quality repairs. No need to recalibrate after every pull.

High-Tech Targets
LaserLock’s targets use the same technology as UPC scanners found in grocery stores, eliminating any distortion and delivering deadly accurate measurements each time.

Take profitable measuring to a whole new level.

Many of today’s complex vehicles require the use of OEM-recommended repair procedures to return them to their pre-collision state. Quickly measure and document the dimensional condition of frames, body openings, and upper body openings and create print documentation for customers and their insurance companies of the high quality of your repairs.

The result?
Increased repair quality in less time equals greater profits.
The ultimate vehicle measuring system in one portable workstation cabinet.

**Lockable Steel Cabinet Workstation**
- Durable, powder-coated frame structure
- Secure body scanner storage drawer
- Secure computer and printer cabinet storage
- Two rotating casters and two fixed casters
- Complete 110-volt or 220-volt system
- Wireless router

**Dual, High-Definition Flat Screen Monitors**
The secondary web enabled monitor can run the alignment system or access your OEM repair procedures - technicians never have to leave the bay!

**Hole Attachments and Clips**
- Magnetic hole attachments for fast and easy positioning
- Wide array of sizes from 10mm-25mm

**Bolt Attachments and Clips**
- Magnetic bolt attachments ranging from 10mm-25mm
- Threaded bolt attachments ranging from 10mm-32mm
- Metal clip attachments ranging from 10mm-35mm

**Targets**
- 45 individual bar-coded reflective targets for simultaneous multiple-point measuring
- Sleek design and variable lengths allow for easy viewing of multiple targets…even on large pick-ups and SUVs
- Protective end caps help prevent damage for prolonged life

**Target Extensions**
Handy extensions attach to your existing targets, making them longer and allowing you to measure around underbody obstructions.

**Laser Body Scanner Storage**
- Easy-to-reach drawer securely stores scanner protecting it when not in use.

**Computer**
- Windows 10 Professional Edition
- Heavy-duty CPU with Extreme Graphics, DVD player and 6-Channel high-output audio system
- Hyper-threading feature allows multiple programs to run simultaneously without slowing either program
- Stored safely in cabinet bottom
- Integrated Wi-Fi and BLUETOOTH functions

**Software**
- Exclusive Chief software that is quick and easy to navigate
- On-screen photos of recommended target and attachments, and where they should be placed
- Comparative SAI and Caster measurements
- Automatically calculates for removed components
- Incorporate your company logo into printout design
- Includes FREE interactive help and tutorial

**Color Printer**
- High-speed, high-resolution color printer is stored in cabinet bottom

**Alignment Camera Sensor Charger**
- Convenient charging station located in cabinet bottom
Profit-Boosting Software
LaserLock includes Chief’s AutoScan® and Estimator Pro-V® software, which provide more revenue generating opportunities that customers will appreciate and that will save considerable time during the front-end inspection and estimating process.

Upper Body Bar Package Real-Time Measuring
Measure two reference points simultaneously with the Upper Body Bar. Measure the vehicle’s strut towers and frame at the same time during pulls for higher-quality and faster repairs.

- Measure SAI and Caster
- Easily measure strut towers and fender bolts with ease
- Generate comparison measurements for roof when optional extensions are used
- Generate comparison measurements for deck lid openings
- Generate comparison suspension angles when ball joints and strut towers are being measured

Precision Specifications
LaserLock uses Chief Thunderbolt specs, which feature frame data for thousands of domestic and import cars and trucks from the present back to 1994, as well as Upper Body Opening data including doors, windows, hatches and strut towers. Chief specs have more vehicles than anyone else, and measures every vehicle personally with frame anchored and the suspension unloaded to provide you with “real world” accuracy other specs can’t match.

LasercLock Features

Absolute Proof
- Final inspection report proves repairs were needed and returned the vehicle to pre-collision condition.
- Documentation reinforces trust between you and insurance provider generating more insurance-related business for your shop.
- Proof of high-quality repairs generates more repeat and referral business.

Rear Wheel Tracking Gauge
Check and verify rear wheel tracking, offset, toe and length from body zero line. Measurements are automatically displayed on your monitor screen, and helps find and correct alignment issues before reassembly.

E-Access On-Line Tech Support
E-Access® allows you to contact Chief’s Tech Support team whenever you need assistance. Our experienced tech’s can help you work through tough repair questions and can even take over your system, if asked to, to help you make sure the repairs are right the first time.

Easy to Set and Use
Using LaserLock is as simple as...

1. Pull up detailed frame specifications for the vehicle being repaired
2. Hang the attachments and targets as instructed by LaserLock’s tutorial
3. Position the LaserLock scanner under the vehicle
4. Watch as LaserLock shows you not only where the vehicle frame is out of alignment, but also by how much and in what direction!
NO MINIMUM BAY SIZE REQUIRED!
NO NEED FOR A DEDICATED BAY!

- Portable aligner cart - position anywhere and maximize available workspace with no obstructions
- Lift level compensation - the system can be used on any pulling rack, 4 post, scissor lift or any empty bay!

ALIGNMENT SPEED
Automatic and instant 3D target visualization
- Equipped with 2 space saver sensors with fixed cameras
- 4 high resolution plastic targets - detects all vehicle angles in just seconds
- Remote control located on each sensor
- Automatic positioning of the cameras
- Automatic recognition of the targets
- Alignment reading in 8 seconds

PATENT PENDING
3 POINT QUICK LOCKING CLAMPS
Avoid run out compensation

QUICK SETUP
Self-centering tire clamps, with quick locking units and ABS quick claws device.

REAR SLIP PLATES
Removable rear slip plate designed to accommodate alignments. 1 pair standard.

Patent Pending 3D Targets Solid Vision Technology
NO ROLL-BACK COMPENSATION REQUIRED!

EXCLUSIVE Solid Vision 3D TARGET TECHNOLOGY
Equipped with fixed cameras, tire clamps, remote controlled sensors, turning radius gauges and rear slip plates.
LED REPEATER

Easy under vehicle sensor reading. Guided adjustments with no need to see the monitor.

STIRERING

NO ADAPTER REQUIRED

TURNING RADIUS GAUGES

FIXED HIGH RESOLUTION CAMERAS

PRECISION TARGET READING Rear sensors with automatic positioning of the cameras.

DIGITAL DISPLAY

GREEN LED: battery under charge/external powering
RED LED: detector on
DISPLAY: battery level

REMOTE CONTROL

Keyboard with remote-control function.

LED FRONT

Camber/Caster
Toe

LED REAR

Camber
Toe

LED REPEATER

Quick battery change

Convenient charging station in cabinet. For fixed or mobile installation.

EASY TO MOUNT CAMERA BRACKET

Compact and adjustable, this sensor base easily mounts to multiple locations on frame rack decking.

SENSOR POSITION A

Measure vehicles up to a 170" (4300 mm) wheelbase

SENSOR POSITION B

Measure vehicles up to a 185" (4700 mm) wheelbase

Move forward the turntables or change sensor location on deck.
C3080 Baysaver 3D vs Traditional Aligner

**C3080 Baysaver 3D**

**ADVANTAGE**

**NO MINIMUM BAY SIZE REQUIRED!**
Maximize available workspace.

**TOWER FREE!**
No obstacles or obstruction.

**SET UP SPEED**
Portable aligner console can be positioned anywhere in the bay.

**ADVANTAGE**

**NO COMPENSATION or ROLL BACK**
No rolling or pushing of vehicle for compensation.
Automatic and instant 3D target visualization.

**ADVANTAGE**

**NO INTERRUPTIONS**
Perfect transmission signal.
Always.

**ADVANTAGE**

**NO NEED FOR A DEDICATED ALIGNMENT BAY**
Use the aligner in more than one bay with additional sensor supports.
Can be used at any height!

**TRADITIONAL ALIGNER**

**LOSS OF BAY SPACE**
Fixed obstacle in front of the lift!

Valuable space lost in the workshop

5 to 8 FEET OF LOST SPACE!

**PHYSICAL EFFORT!**
Requires vehicle to be pushed back and forth to produce measurements.

**NO SIGNAL**
Frequent interruption of transmission signal.

**LIMITED TO USE IN ONE BAY ONLY**
One lift and one single working height only.
**C3080 ALIGNMENT FEATURES**

**EASY VEHICLE SELECTION**
Quick entering of vehicle by model or V.I.N. number.

**EASY DATA**
- Data management and display program in WINDOWS environment
- Data bank with more than 90,000 vehicle data sheets
- Further data sheets can be added by the user
- Customer data bank for recording 20,000 jobs with search by customer name or vehicle plate number

**EASY ALIGNMENT**

**ANIMATED INSTRUCTIONS**

**RUN OUT COMPENSATION**
When required
- Ø 20” to 6” / Ø 24” to 7” / Ø 27” to 8” / Ø 31” to 9”
- Ø 500mm to 150mm / Ø 600mm to 170mm
- Ø 700mm to 200mm / Ø 800mm to 290mm

**EASY UPDATE**
SMART CARD for quick data bank update. USB KEY to save and restore customer data.

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**LASERLOCK ALIGN STANDARD EQUIPMENT**
- Control cabinet with PC, monitor, keyboard, printer
- Rolling align equipment cart
- Two (2) measuring heads with protective dust covers
- Two (2) camera brackets
- Four (4) tire clamps
- Four (4) 3D targets with protective storage bags
- 1 pair of turn tables
- 1 pair of rear slip plates
- 1 brake pedal depressor
- 1 steering wheel lock
- Instruction manual on USB flash drive
- VIN scanner
- Mobile tablet

**OPTIONAL EQUIPMENT**

**STDA3D/QC**
2 x stands kit

**STDA128**
2X battery set

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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>ACCURACY</th>
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<th>TOTAL RANGE</th>
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TOTAL DRIVE, LIGHT DUTY AUTOMOTIVE WHEEL ALIGNER

The 3070 wireless aligner displays programs and data in easy to use 3D graphics. Simply access programs by selecting 5 command keys that guide user step by step in the measuring process. Equipped with a powerful PC, an A4 printer and mobile cabinet for attaching and charging wheel clamps.

C3070 SPEED

8-CCD sensor wheel alignment system
Infra-red transmission among measuring heads. Bluetooth transmission between front measuring heads and control unit.

Portable - position aligner console anywhere for the ultimate convenience.

Maximize available workspace without OBSTACLES or OBSTRUCTIONS!

EASY FIND

Quick entering of vehicle by model or V.I.N. number

10° / 20° CCD STEERING ACKERMANN

The steering procedure is carried out electronically, through the CCD sensors, so caster and king pin are measured with great precision.

VEHICLE SPOILER PROGRAM

The Spoiler Program is automatically activated to perform the measurements on sport and tuned car bodies through a simplified procedure.

SAFE PRINT

Safe use of printer with closed drawer.

QUICK CHARGE

Special supports to house the measuring heads and recharge the batteries.

KEYBOARD

with remote-control function.

LED REPEATER

Synoptic LED signal repeaters on each measuring head.
**QUICK RUN OUT**

It is possible to measure wheel run out by moving the vehicle by only 30° (quick compensation in a small space)

Ø 20” to 6” / Ø 24” to 7” / Ø 27” to 8” / Ø 31” to 9”
Ø 500mm to 150mm / Ø 600mm to 170mm
Ø 700mm to 200mm / Ø 800mm to 230mm

**3D ANIMATION**

User’s instructions by animated graphics.

**3D INFO**

Precise display of the adjustment points.

**TECHNICAL DATA**

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**EASY DATA**

- Data management and display program in WINDOWS environment
- Data bank with more than 90,000 vehicle data sheets
- Further data sheets can be added by the user
- Customer data bank for recording 20,000 jobs with search by customer name or vehicle plate number

**EASY ALIGNMENT**

- Data bank automatically modifies the alignment specifications based on chassis height.

**QUICK DIAGNOSTIC**

The quick measurement of axle set back, wheelbase and track-width, may highlight any errors in the vehicles body and chassis symmetry.

**DYNAMIC DATA BANK**

The data bank automatically modifies the alignment specifications based on chassis height.

**EASY UPDATE**

SMART CARD for quick data bank update. USB KEY to save and restore customer data.

**STANDARD EQUIPMENT**

- 1 control unit with PC, 19” monitor, keyboard, printer and battery charger
- 2 front measuring heads
- 2 rear measuring heads
- 2 pair of STDA35EU three point clamps
- 1 brake pedal depressor
- 1 steering wheel lock
- Instruction manual on USB flash drive
- VIN scanner
- Mobile tablet

**STDA35E 8”- 24”**

Pair of self-centering 3 point clamps, with quick locking units and ABS claws. Equipped with quick claws approach device.
All the characteristic angles of both vehicle axles are controlled by means of four measuring heads with 8 CCD sensors and infra-red transmission.

TOTAL DRIVE ALIGNER
WIRELESS EFFICIENCY

Portable aligner console can be positioned anywhere for the ultimate in shop convenience.

Multi-axle 8-CCD sensor system
The wheeled control unit houses computer, printer and battery charger. Open cabinet stores clamps and accessories.
EASY DATA

- Data management and display program in Windows environment
- Data bank with more than 90,000 vehicle data sheets
- Customer data bank for recording 20,000 jobs with search by customer name or vehicle plate number

QUICK RUN OUT

It is possible to measure wheel run out by moving the vehicle by only 30° (quick compensation in a small space)
Ø 20” to 6” / Ø 24” to 7” / Ø 27” to 8” / Ø 31” to 9”
Ø 500mm to 150mm / Ø 600mm to 170mm
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VEHICLE SPOILER PROGRAM

The Spoiler Program is automatically activated to perform the measurements on sport and tuned car bodies through a simplified procedure.

STANDARD EQUIPMENT

- 1 control unit with PC, 19” monitor, keyboard, printer and battery charger
- 2 front measuring heads
- 2 rear measuring heads
- STDA33EU four point clamps
- 1 brake pedal depressor
- 1 steering wheel lock
- Instruction manual on USB flash drive
- VIN scanner
- Mobile tablet

 TECHNICAL DATA | ACCURACY | MEASURING RANGE | TOTAL RANGE
---|---|---|---
FRONT AXLE
Total toe | + / - 3’ | + / - 2˚ | + / - 20˚
Partial toe | + / - 1’ 30” | + / - 1˚ | + / - 20˚
Set-back | + / - 2’ | + / - 2˚ | + / - 5˚
Camber | + / - 2’ | + / - 3˚ | + / - 10˚
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Set-back | + / - 2’ | + / - 2˚ | + / - 5˚
Camber | + / - 2’ | + / - 3˚ | + / - 10˚
Thrust angle | + / - 2’ | + / - 2˚ | + / - 5˚
Power supply | 110v / 1Ø / 60 Hz

STDA33EU 10” - 24”
Pair of self-centering 4 point clamps, with removable claws.
C6000HD SPEED AND EFFICIENCY

See significantly higher income production with much faster operating times without any loss of accuracy.

Simple system to learn with far less training time.

Suited for larger commercial vehicles, the double inclometer allows caster adjustment without steering. No run out clamps enable user to skip out any compensation procedures.

Maximize available workspace with this portable aligner console - position anywhere in available bay space.

6-CCD sensor wheel alignment system
Infra-red transmission among measuring heads. Bluetooth transmission between front measuring heads and control unit.

STANDARD FAST CLAMPS
No run-out compensation

TWSR SENSORS
BUS and TRUCK APPLICATION
Front and rear heads have extended drop-down sensor frame.

4 LED SENSORS
NEW 4 LED sensors allow alignment reading up to 59 feet.

LED REPEATER
LEDs on the head inform operator when adjustment angle is within specification range.

6-CCD sensor wheel alignment system
Infra-red transmission among measuring heads. Bluetooth transmission between front measuring heads and control unit.

STANDARD FAST CLAMPS
No run-out compensation

19” Monitor

4 REMOTE CONTROLS
Ability to operate the system from any head. Often you are a distance from the console and this slows down the operating speed.

C6000HD SPEED AND EFFICIENCY

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NEW 4 LED sensors allow alignment reading up to 59 feet.

LED REPEATER
LEDs on the head inform operator when adjustment angle is within specification range.
DATA MANAGEMENT

- Data bank with vehicle data sheets already entered and further blank sheets to be filled.
- Customer data bank for recording jobs with search by customer name or vehicle plate number.

Summary and comparison of diagnosis/repair values on a single screen.

User’s instructions with animated graphics for immediate operation.

TECHNICAL DATA

<table>
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</tr>
</tbody>
</table>

Power supply 110v / 1Ø / 60 Hz

STANDARD EQUIPMENT

- 1 control unit with PC, 19” monitor, keyboard, printer and battery charger
- 2 front and 2 rear measuring heads
- 1 brake pedal depressor
- 1 steering clamp
- Mobile tablet

REMOTE CONTROL
for SMART Phone

TRAILER ALIGNMENT
Up to 8 axles

UNIVERSAL USE
Floor, pit or lift

> 35”-50” (890-1290mm)

PATENTED STDA92
Set of 2 non-run out quick adapters
STATE-OF-THE-ART SERVICE EQUIPMENT FOR EVERY JOB.

Ready to get started?
To learn more about how our equipment can prepare you for the next generation of repairs, contact your local Chief distributor.

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