



*Dimensions Of Higher Productivity!*



**V3D<sup>2</sup> & V3D<sup>1</sup>**  
Imaging Alignment Systems



# V3D<sup>2</sup> & V3D<sup>1</sup> Imaging Alignment Systems

## Fast, Precise, Easy-to-Use

The V3D<sup>1</sup> and V3D<sup>2</sup> imaging alignment systems leverage patented imaging technology to provide accurate, real-time measurements that reduce setup and measurement times and generate serious productivity benefits. This proven technology is matched with easy-to-use software that will have your technicians getting readings in a matter of minutes.

### The V3D Series will enable you to:

- Make more of your technicians alignment experts
- Generate more alignment business
- Eliminate customer comebacks
- **MAKE MORE MONEY!**



V3D<sup>1</sup>  
EEWA545ALP

V3D<sup>2</sup>  
EEWA546AL22

## Productivity-Enhancing Features



### Optional VHCS

- Variable-Height Camera Support (EAA0321J19C), shown with standard Camera Beam
- Eliminates the need for fixed-position/level surfaces during alignments
- Positions cameras in range with a touch of a button - even during the alignment process!

### VODI\*™

- Vehicle Orientation Directional Indicator, located on camera beam
- Guides technician through measuring process
- Reduce the amount of time spent walking back and forth from the vehicle to the aligner console



### Universal Wheel Clamps

- Handle wheel diameters ranging 13" to 24" standard (up to 28" with optional clamp extensions EAK0268J62A)
- Interchangeable grippers minimize wheel damage

### 3D Animation

- Provides vehicle-specific adjustment information with easy-to-understand 3D graphics
- Refers to spare parts or special tools as applicable



\* Patented and/or Patent-Pending Features

# Speed + Accuracy = Profitability!



**Eliminate Customer Comebacks**



**Make Alignment Your Most Profitable Service**

The V3D Series aligners leverage one of the most advanced imaging alignment systems available. The system creates a live 3D model of the vehicle and tracks corrections as they happen. This system dramatically reduces setup and adjustment times:

- **Ergonomic:** Measures at multiple lift heights
- **Easy-to-Use:** Captures targets automatically
- **Adaptable:** Works on non-level surfaces
- **Fast:** Shows progress in real-time

At the end of the day, it always comes down to **money**. By using the V3D Series, alignment will quickly become your most profitable service. You will also be able to train all of your technicians to perform alignments. Performing more alignments at a lower cost – that boosts your bottom line!

## Advanced Measurement Capabilities



### EZ-Access Software\*

- Avoid having to work around the wheels when making adjustments
- Access hard-to-reach adjustment points that would be impossible to adjust with the wheels in the way
- Eliminate guess-and-check work - see results of your adjustments while you make them - even with the wheels off
- Perfect for quick and easy installation of aftermarket suspension kits as well as OEM adjustments
- Reduces strain and fatigue on your technicians

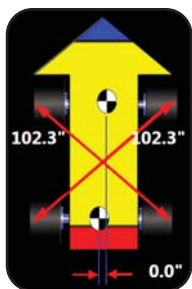
### Ride Height\*

- Review vehicle specs & request input from the technician for those vehicles requiring ride height measurement
- Measure manually or use the Target Imaging Pointer (TIP)



### Software for Modified Vehicles\* (V3D<sup>2</sup> Only)

- Minimize tire wear for vehicles with aftermarket wheels or other modifications
- Optimize handling characteristics by comparing the impact of modifications to OEM specifications and making appropriate adjustments



### Cross-Diagonal\*

- Help diagnose possible collision damage
- Identify frame or structural issues that many shops miss

### Rolling Radius\*

- Identify mismatched tire sizes - a potential cause of vehicle pulling and driver complaints
- Prevent damage to vehicles with all-wheel drive and ABS



† Standard on V3D<sup>2</sup>, Optional on V3D<sup>1</sup>

\* Patented and/or Patent-Pending Features

## Optional Drive-On Camera Aid

Optional Drive-On Camera Aid eliminates the need for assistance with positioning the vehicle on the lift.



Optional Drive-On  
Camera Aid  
EAK0289J91A



Optional VIN Scanner  
EAK0289J86A

## Optional VIN Scanner

Optional VIN Scanner allows the technician to scan the Vehicle Identification Number & automatically input it into the aligner, saving time and eliminating the possibility of operator error.

## Building On A History Of Innovation

In the 1920's, Snap-on Equipment Engineers invented mechanical wheel alignment. Then in 1994, they patented the imaging alignment technology that is now found in every imaging system today\*. The engineers continue to bring innovative changes in imaging technology for shop equipment, representing the latest in imaging alignment capabilities and furthering Snap-on Equipment's position as pioneers in alignment technology.

\* U.S. Patent Number 5,535,522





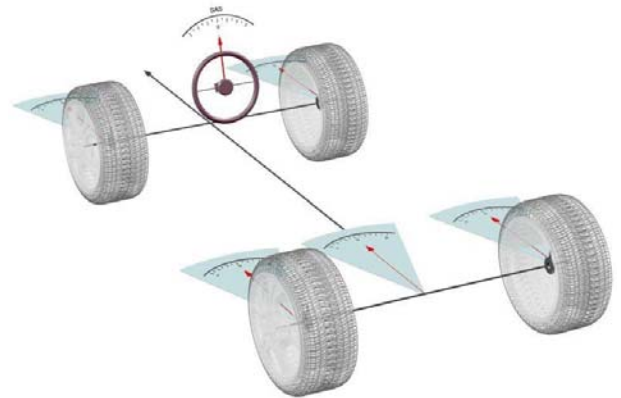
# V3D<sup>2</sup> & V3D<sup>1</sup>

## Imaging Alignment Systems

### EZ-Link™\* Steering Angle Sensor (SAS) Reset

EZ-Link™ software alerts the technician of OEM service & maintenance procedures related to Electronic Stability Control and Electric Power Steering systems.

OEM instructions guide the technician through the process of resetting the steering angle sensors along with other sensors as required. EZ-Link™ includes manual as well as electronic resets.



**⚠ Determine if this vehicle is equipped with Electronic Power Steering (EPS)**  
**Always reference OEM documentation for up-to-date procedures.**

After replacing the power steering motor and module assembly 3 procedures must be performed. Steering Position Sensor Calibration, Torque Sensor Calibration and Steering Tuning.

If replacing the steering column assembly only, the Steering Position Sensor and the Torque Sensor Calibration procedures must be performed.

The Steering Position Sensor and Torque Sensor Calibration procedures should also be performed after a suspension alignment.

Certain steering symptoms such as uneven return to center, poor center feel, uneven left/right assist, can be corrected by performing the Steering Position Sensor and Torque Sensor Calibration procedures.

The Torque Sensor Calibration:

1. Turn the ignition OFF, install the scan tool.

### Optional EZ-Stream™\*

Optional EZ-Stream™\* hardware communicates with the vehicle's computer and aids the technician with service of on-board computer data relative to computerized steering systems.



EAK0284B10A1

\* Patented and/or Patent-Pending Features



# V3D<sup>2</sup> & V3D<sup>1</sup>

## Imaging Alignment Systems

### FEATURES

- EZ-Access<sup>\*\*</sup> (Wheels-Off Alignment)
- Software for Modified Vehicles<sup>†</sup>
- Advanced Vehicle Dimensions<sup>†</sup>
- Pro-Ackerman<sup>TM††</sup>
- Scrub Radius<sup>\*\*†</sup>, Caster Trail<sup>\*\*†</sup>, and SAI<sup>†</sup>
- Information Systems Compatible
- TPMS Information
- Technical Service Bulletins
- Track Width
- Wheelbase
- Front and Rear Set-back
- Live 3D Modeling<sup>\*</sup>
- Cradle Adjustments
- Intuitive Caster Measurement
- Drag Link Adjustments
- Single Tie Rod Adjust
- Toe Curve Change
- Vehicle Dynamics
- Roll Forward & Split-Positioning Sequence
- Rolling Radius<sup>\*</sup>
- Cross Diagonal<sup>\*</sup>
- Custom Inspections and Reports
- Multiple Alignment Wizards (Incl. Custom)
- SAI and Thrust Angle
- Included Angle
- Toe Out On Turns/Max Turn
- Front and Rear Toe
- Front/Rear/All/Zoom Readings
- FrameCheck<sup>TM</sup> Light Truck Frame Angle
- Initial/Final Color Printouts
- Individual Camber/Caster/Toe
- Front Caster (-28° to +28°)
- Front & Rear Camber (-15° to +15°)
- 3D Animation
- Video Help
- A-Arm Adjustments
- Adjust Camber Only
- Elevated Adjustments
- Rear Shim Programs
- Multiple Lift Support (3)
- Vehicle Specs: 25+ years
- EZ-Link<sup>TM\*</sup>
- EZ-Stream<sup>TM\*</sup> (Optional)
- EZ-Toe<sup>TM\*</sup>
- Steering Wheel Level Check
- Drive-On Camera Aid Ready
- Equalize Toe Warning
- Adjust Front Before Rear Warning
- Ride Height<sup>\*</sup>
- Multiple Clamp Support
- 2-Wheel Alignment
- 32 Languages
- Multiple Print Formats
- Custom Vehicle Specifications
- Regional Specifications
- Integrated Help System (PDF)
- Tools, Parts, and Adjustment Instructions
- Advanced Customer Database with Backup/Restore
- Multiple Units of Measure
- Caster and SAI on Turntables
- SAI Elevated
- Live Caster, Camber and Toe - Turntables
- Live Caster, Camber and Toe - Elevated
- NorthStar Shim Program
- Light Truck Bushing
- Remote Control
- Variable-Height Camera Support Controls

### SPECIFICATIONS

#### Equipment Specifications

- Wheel Size: 13" - 24"
- Tire Diameter: Unlimited
- Track Width: 48" - 96"
- Wheel Base: 79" - 180"
- Power Requirements: 120/230V, 1Ph, 60Hz

#### Standard Accessories

- Universal Wheel Clamps/Targets: *EAK0268J52A*
- Steering Wheel Holder: *00055502000*
- Brake Pedal Depressor: *00000096000*
- Camera Beam: *EAA0305J48A*
- Color Ink Jet Printer: *EAK0268J05A*
- Ride Height Target Kit<sup>†</sup>: *EAK0256J71A*

#### Recommended Accessories

- Premium Turntables: *EAK0289J06A*
- Paddle Kit (for *EAK0289J06A*): *EAK0277J28A*
- 4-Post Rollback Kit: *EAK0277J39A*
- 12K Scissor Rollback Kit: *EAK0277J40A*
- 10K/14K Scissor Rollback Kit: *EAK0277J67A*
- Hunter/Rotary Rollback Kit: *EAK0277J45A*
- 12K Scissor Roll Forward/Rollback: *EAK0277J47A*

#### Optional Camera Support Configurations

- Fixed-Height Camera Support: *EAA0321J01A*
- Variable-Height Camera Support: *EAA0321J19C*
- Electronic-Tilt Camera System: *EAK0289J64A*
- Wall/Pit Camera Support (8"): *EAK0289J63A*
- Wall/Pit Camera Support (Adjustable 36" - 60"): *EAK0289J36A*

#### Optional Accessories

- Universal Wheel Clamp Ext. Kit: *EAK0268J62A*
- Alloy Quick Clamp Kit: *EAK0268J63A*
- Frame Angle Gauge: *8-05320A*
- Remote Display Readout: *EAK0268J08A*
- Convex Mirror: *P-1826*
- EZ-Stream<sup>TM\*</sup>: *EAK0284B10A*
- VIN Scanner Kit: *EAK0289J86A*
- Drive-on Camera Aid: *EAK0289J91A*
- Hub Adapter Kit: *EAK0222J83A* (Wheels-Off Alignment)

<sup>†</sup> V3D<sup>2</sup> Only.

<sup>\*</sup> Standard on V3D<sup>2</sup>, Optional on V3D<sup>1</sup>

<sup>\*</sup> Patented and/or Patent-Pending Features

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