



*California*

**BAR-OIS**

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# What is BAR-OIS?

- BAR-OIS Stands for Bureau of Automotive Repair's On-Board Inspection System
- Computer-Based Smog Check Inspection System for:
  - 2000 and Newer Model-Year Gasoline-Powered Vehicles
  - 1998 and Newer Model-Year Diesel-Powered Vehicles
- No Tailpipe Testing
- No Dynamometer
- Some Functional Tests Eliminated

# Why BAR-OIS?

- New Vehicles Use Multiple Computers
- BAR-OIS Replaces the Current BAR-97 Loaded Mode Test
- Equipment Less Costly
- Inspection More Cost Effective
- Reduces Space Required for Equipment

# BAR 97 VS. BAR-OIS



**\$40,000 +**  
**Occupies a Service Bay**

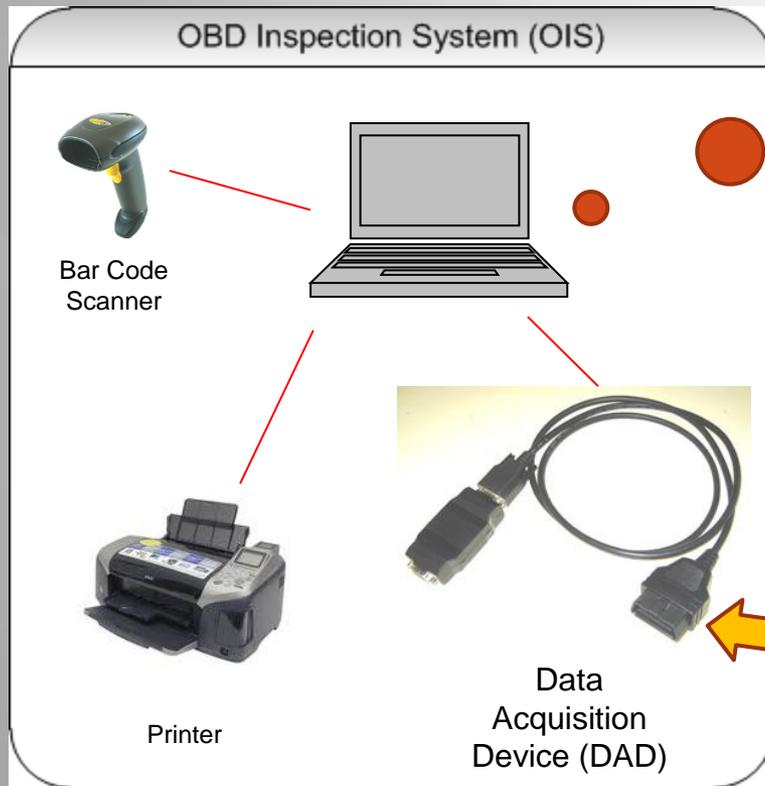


**\$2,000 - \$6,500**  
**Occupies about 4**  
**Square Feet**

# What is a BAR-OIS?

- The BAR-OIS Includes the Following Components:
  - Laptop or Desktop Computer
  - BAR-OIS Software
  - Printer
  - Bar Code Scanner
  - BAR Certified Data Acquisition Device (DAD)
    - Only Component that is BAR Certified

# OBD Inspection System (OIS)



High Speed Internet Connection



Stations May Purchase the OIS Equipment Individually or from an Entity Packaging the Complete Analyzer.

# BAR-OIS Benefits

- Creates a More Robust Inspection Program for Newer Model-Year Vehicles
- Reduces the Cost of Smog Check Inspection Equipment
- BAR-OIS Based Testing is More Cost-Effective
- Aligns California with 28 Other States Currently Using OBD Inspection Systems

# BAR-OIS Status

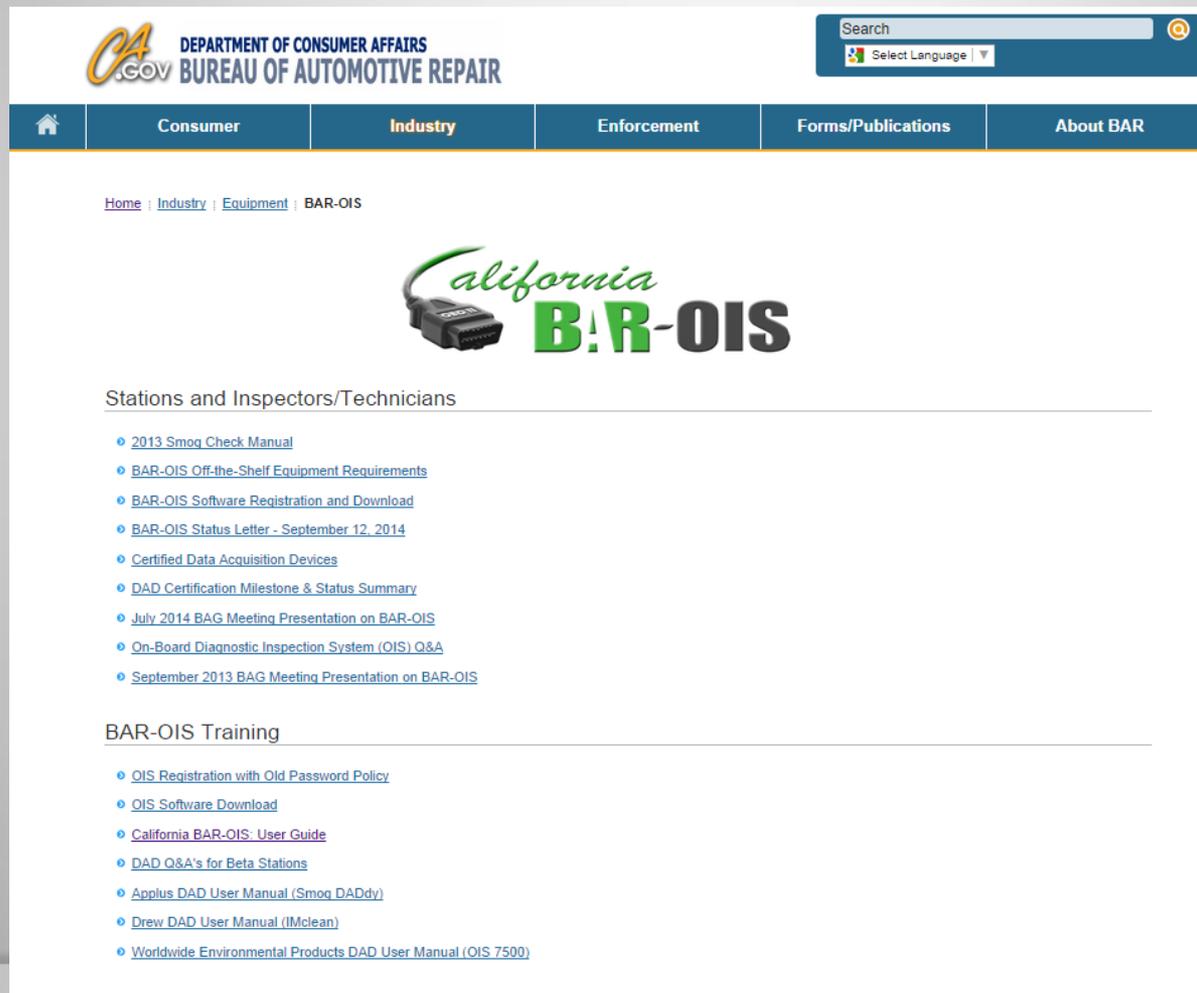
- Currently, About 4,500 Active BAR-OIS Units
- Inspection Volume Currently About Half BAR-97 and Half BAR-OIS
- BAR-OIS Units Testing About 60% of Eligible Vehicles
- About 700 STAR Stations Don't Have a BAR-OIS

# BAR-97 Allowed Until Mandatory BAR-OIS

- Smog Check Stations are Encouraged to Perform BAR-OIS Inspections on 2000 and Newer Gasoline-Powered Vehicles and 1998 and Newer Diesel-Powered Vehicles (up to 14,000 GVWR)
- Until BAR-OIS Mandatory Implementation Date:
  - Use 2013 Smog Check Manual on BAR-OIS Inspections
  - Use 2009 Smog Check Inspection Procedures Manual on BAR-97 Inspections

# BAR-OIS Resources on BAR's Public Website

<http://www.bar.ca.gov/Industry/Equipment/BAR-OIS.html>



The screenshot shows the top portion of the BAR-OIS website. At the top left is the logo for the Department of Consumer Affairs, Bureau of Automotive Repair, featuring a stylized 'CA' and '.Gov'. To the right is a search bar with the text 'Search' and a 'Select Language' dropdown menu. Below the logo is a navigation bar with five tabs: 'Consumer', 'Industry' (which is highlighted), 'Enforcement', 'Forms/Publications', and 'About BAR'. Below the navigation bar is a breadcrumb trail: 'Home > Industry > Equipment > BAR-OIS'. The main content area features a large graphic with the word 'california' in a green script font, a black diagnostic connector, and the text 'BAR-OIS' in large, bold, green letters. Below this graphic are two sections: 'Stations and Inspectors/Technicians' and 'BAR-OIS Training'. Each section contains a list of links to various resources.

DEPARTMENT OF CONSUMER AFFAIRS  
BUREAU OF AUTOMOTIVE REPAIR

Search

Select Language

Home > Industry > Equipment > BAR-OIS

*california*  
**BAR-OIS**

### Stations and Inspectors/Technicians

- [2013 Smog Check Manual](#)
- [BAR-OIS Off-the-Shelf Equipment Requirements](#)
- [BAR-OIS Software Registration and Download](#)
- [BAR-OIS Status Letter - September 12, 2014](#)
- [Certified Data Acquisition Devices](#)
- [DAD Certification Milestone & Status Summary](#)
- [July 2014 BAG Meeting Presentation on BAR-OIS](#)
- [On-Board Diagnostic Inspection System \(OIS\) Q&A](#)
- [September 2013 BAG Meeting Presentation on BAR-OIS](#)

### BAR-OIS Training

- [OIS Registration with Old Password Policy](#)
- [OIS Software Download](#)
- [California BAR-OIS: User Guide](#)
- [DAD Q&A's for Beta Stations](#)
- [Applus DAD User Manual \(Smog DADdy\)](#)
- [Drew DAD User Manual \(IMclean\)](#)
- [Worldwide Environmental Products DAD User Manual \(OIS 7500\)](#)

# DAD Certification Milestones and Status Summary

- BAR-OIS Deployment Began 6/16/2014

DAD VENDOR	CERTIFICATION TESTING STATUS			
	ALPHA	BETA Sacramento Region	BETA Statewide	DATE CERTIFIED
Applus Technologies, Inc.				06/13/14
Bosch Automotive Service Solutions (formerly SPX)		✓		TBD
Drew Technologies, Inc.				06/20/14
Worldwide Environmental Products				09/10/14

# BAR Certified DAD Units (Wired and Wireless)

VENDOR	MODEL NAME	MODEL NUMBER/TYPE (Wired/Wireless)	DATE CERTIFIED
<a href="#">Applus</a> Phone: (855) 766-4323 Fax: (847) 616-6036 Email: smogdaddy@aplustech.com	Smog DADdy <a href="#">User Manual</a>	310-0909 / <a href="#">Wired</a> 310-0910 / <a href="#">Wireless</a>	06/13/2014
<a href="#">Drew Technologies</a> Phone: (877) 888-2534 Email: support@drewtech.com	IMclean <a href="#">User Manual</a>	01 / <a href="#">Wired</a> bt-01 / <a href="#">Wireless</a>	06/20/2014
<a href="#">Worldwide Environmental Products, Inc.</a> Phone: (714) 990-2700 Email: <a href="mailto:info@wep-inc.com">info@wep-inc.com</a>	WEP OBDII DAD <a href="#">User Manual</a>	2909055 / <a href="#">Wired</a> 2909055 / <a href="#">Wireless</a>	09/10/14

**NOTICE TO STATIONS:** A Disclosure Agreement must be on file with the Bureau of Automotive Repair (BAR) before your station will be able to access the California BAR-OIS Software to begin testing using your new DAD. The DAD Vendor is responsible for providing your station a Disclosure Agreement and submitting your completed agreement to BAR.

Link to Vendor's Website

Link to Certification Document

# BAR's Website

## Station and Inspectors/Technicians Tab

- 2013 Smog Check Manual
- BAR-OIS Off-the-Shelf Equipment Requirements
- BAR-OIS Software Registration and Download
- BAR-OIS Status Letter – September 12, 2014
- Certified Data Acquisition Devices
- DAD Certification Milestones and Status Summary
- July 2014 BAG Meeting Presentation on BAR OIS
- On-Board Diagnostic Inspection System (OIS) Q&A
- September 2014 BAG Meeting Presentation on BAR-OIS

# BAR's Website

## BAR-OIS Training Tab

- BAR-OIS Registration Password Policy and Login Permissions
  - Allows Station Owner Flexibility to Assign Employee Access
- BAR-OIS Software Download
- California BAR-OIS: User Guide
- DAD Q&A's for Beta Stations
- Applus DAD User Manual (Smog DADdy)
- Drew DAD User Manual (IMclean)
- Worldwide Environmental Products DAD User Manual (OIS 7500)

# BAR's Website

## OBD Inspection System Q&A

- 60 Questions and Answers in These Categories
  - Inspection Procedures
  - Station Equipment Requirements
  - BAR-OIS Start Up
  - BAR-OIS Training
  - BAR-OIS Equipment
  - BAR-OIS Service
  - BAR-OIS Software
  - BAR-OIS Cost
  - BAR-OIS Pass-Fail Standards
  - STAR Related
  - Consumer Related

# Station Equipment Requirements: Q&A #9

## 2013 Smog Check Manual Equipment Table 1.8.0

### EQUIPMENT AND MATERIALS REQUIREMENTS

EQUIPMENT / MATERIALS		STATION TYPE				
		STAR Test Only	Test Only	STAR Test and Repair	Test and Repair	Repair Only
BAR Certified Equipment	BAR-97 Emissions Inspection System (EIS) with most current hardware and software	√	(1)	√	(1)	
	OBID Inspection System (OIS) with hardware and software necessary to conduct OBD inspections	√	(2)	√	(2)	
	Low Pressure Fuel Evaporative Tester (LPFET) and Operator's Manual	√	(3)	√	(3)	
	Fuel cap tester, adapters, and adapter guide	√	(3)	√	(3)	
	Ignition Timing Light capable of measuring ignition advance	√	(4)	√	(4, 5)	(5)

(1) Required when performing a tailpipe emission inspection on vehicles.

(2) Required when performing the OBD test on model-year 2000 and newer vehicles.

(3) Required when inspecting 1976-1995 model-year vehicles with evaporative control systems.

(4) Required when inspecting and / or repairing 1976-1995 model-year vehicles with adjustable timing.

(5) Required when inspecting and / or repairing vehicles with spark ignition engines.

# BAR-OIS Startup: Q&A #17

- What Steps Do I Take to Start Using My BAR-OIS?
  - Return DAD Disclosure Agreement Form to DAD Vendor
  - Vendor Will Put Your DAD on Their List to be Unlocked by BAR
  - Review BAR's OIS Registration and Download Videos on the Internet
  - When DAD Unlocked, Vendor Will Notify You and Will Provide the OIS Software Registration and Download Website Address.
  - Connect to Internet and Use Link to Create a California BAR-OIS Software Account
  - Download and Install the California BAR-OIS Software on Your Computer
  - Follow the DAD Vendor's Instructions to Load the DAD Vendor's Software (may be pre-loaded) and Connect the DAD. Consult Your DAD Vendor for Technical Support if Necessary.
  - Upon Verification of Proper Communications, the Station May Perform BAR-OIS Inspections.

# BAR-OIS Pass-Fail Standards: Q&A #53-55

- Implement These New Standards Concurrently on BAR-97 and BAR-OIS after BAR-OIS Mandatory Implementation Date, Early 2015
  - Gasoline Powered:
    - One Monitor Allowed for 1996 to 1999
    - Only the Evaporative Monitor for 2000 and Newer [current standards: 1996 to 2000 two allowed, 2001+ any one allowed]
  - Diesel Powered:
    - Zero Monitors Allowed for 1998 to 2006
    - Only the Exhaust After-Treatment System\* Monitor (e.g., particulate filter) for 2007 and Newer [current standards: same as gasoline]

[\* 'system' may include several monitors: PM filter, NOx/SCR treatment, catalyst]

# New 2013 Smog Check Manual

- Use When Performing BAR-OIS Inspections
- 2013 Smog Check Manual Use Required on Mandatory BAR-OIS Use
- Date on 2013 Manual Will be Updated with 2015 Mandatory Use Date

# New 2013 Smog Check Manual

## Inspection Procedure Changes

### ➤ BAR-OIS Equipment

- Most\* 2000 & Newer Vehicles on OIS
  - 2000+ Without OBDII or Over 14,000 GVWR Require BAR-97 Inspection
- Existing Diesels: Same Procedure
- Hybrids: No Visible Smoke
  - Inspection Required Starting December 2014

### ➤ BAR-97 Equipment

- 1976 to 1995 Vehicles: Same Procedure
- 1996 to 1999 Vehicles: No Functional Fuel Cap, or Functional Timing Test. Visual Fuel Cap Still Required (Use Evaporative System Entry)

# California BAR-OIS Registration and Download Videos



<https://www.youtube.com/watch?v=mTkdqZmHNyw&feature=youtu.be>



<https://www.youtube.com/watch?v=YI2FKYfDEYI&feature=youtu.be>

# California BAR-OIS User Guide

The screenshot shows a web browser window with the URL <https://help.calbarois.com/calvis-help/>. The page title is "Using the Main Menu". The left sidebar contains a "Contents" menu with the following items:

- California BAR-OIS User Interface Guide
  - Introduction
  - Using the Main Menu**
  - Performing Inspections
  - Entering Repair Data
  - Reprinting VIRs
  - DAD Diagnostics
  - Station Management
  - Staff Management
  - Message Management
  - Account Management

The main content area is titled "Using the Main Menu" and includes the following text:

The BAR-OIS Main Menu:

**1 Perform Inspection**

**2 Repair Only**

**3 Reprint VIR**

**4 DAD Diagnostics**

**5 Manage Station**

**6 Manage Staff**

**7 Manage Messages**

**8 Manage Account**

Select **1 Perform Inspection** to initiate a vehicle inspection. Refer to [Performing Inspections](#) for details.

Select **2 Repair Only** to enter repair data. Refer to [Entering Repair Data](#).

Select **3 Reprint VIR** to initiate VIR reprint. Refer to [Reprinting VIRs](#).

Select **4 DAD Diagnostics** to perform OBD diagnostics. Refer to [DAD Diagnostics](#).

Select **5 Manage Station** to set and maintain station settings. Refer to [Station Management](#).

Select **6 Manage Staff** to set and maintain station staff settings. Refer to [Staff Management](#).

Select **7 Manage Messages** to view and manage BAR messages. Refer to [Message Management](#).

Select **8 Manage Account** to set and maintain user accounts. Refer to [Account Management](#).

Refer to [User Login Permissions](#) for role-based **Main Menu** authorizations.

<https://help.calbarois.com/calvis-help/>

# BAR-OIS Activation Process

- Sign DAD Disclosure Agreement and Return to DAD Vendor. Don't Fax to BAR
- Vendors Sending BAR Weekly List of Certified DADs to Activate (unlock)
- BAR Unlocking Certified DADs at a Rate of 400 DADs Per Week to Gauge Database Stability and BAR Industry Help Desk Call volume
- Stations Need to Contact Their Vendor for Unlock Status
- Once Unlocked, DAD Vendor Provides Link to BAR-OIS Software Registration and Download

# What is the DAD Disclosure Agreement?

- Informs Station of Annual DAD Recertification Requirement
- BAR Will Work with DAD Vendors to Correct any Issues Found with DADs Prior to Recertification
- If Issues not Corrected, BAR Could Revoke DAD Certification, Causing Station to Acquire a Different DAD that is BAR Certified

# Questions

- California BAR-OIS Software Assistance, Use BAR's Online Training or Contact BAR's Industry Help Desk at 866.860.8509 or [BAR.IndustryHelpDesk@dca.ca.gov](mailto:BAR.IndustryHelpDesk@dca.ca.gov).
- DAD Assistance, Contact Your Vendor

# **BAR-OIS DEMONSTRATION**



## Main Menu

Welcome to the California BAR OBD Inspection System Registration and Download Website

To participate in California's OBD focused testing, you must select from the following options:

I am a **Station Owner**, but **NOT** an existing Inspector or Technician

Non-Technician Station Owner

I am a **Station Owner** AND an existing Inspector or Technician.  
Note: You will be using your BAR97 Access Code to login for the first time.

Technician Station Owner

I am a **Station Owner** and want to register an **Additional** Station.

Register an Additional Station

I have already registered and need to download the California BAR-OIS Software.

Download the BAR-OIS Software