



Opus Clean Truck User Manual



Version 2.4



Opus Clean Truck User Manual

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Introduction

Opus Clean Truck software bundled with a Clean Truck device is a new generation Heavy Duty (HD) On-Board Diagnostic (OBD) Device for vehicle emissions testing within CARB's Clean Truck Check program. It complies with the California Air Resources Board (CARB) Clean Truck Check requirements.

About this Manual

This User Manual introduces you to the Opus Clean Truck device features and explains how to use it for vehicle emissions testing. It also provides instructions for using the Opus Clean Truck software on a computer/tablet.

Document Conventions

This User Manual uses the following conventions to help you distinguish the actions required by you when using SmogDADdy and installing Opus Clean Truck software.

Convention	Description
Bold	Initiates a software command when clicking on the bold type face word. Example: Click on Self-Test to run a Self-Test.
' '	Signifies the title of a newly displayed software window. Example: The 'Opus Clean Truck Setup' window will appear.
" "	Emphasizes a word or words you should see. Example: When the Self-Test is over, the status line will read "Completed".
Italics	Indicates a set of choices from which you must choose one. Example: Select <i>Opus Inspection</i> for the DAD vendor.
Courier New Font	Identifies text you must type. Example: Type your <code>serial number</code> into the field.

Safety Information

Safety Instructions

This User Manual is intended to provide technical guidance on the installation, operation, and maintenance of the Opus Clean Truck OBD device ("device") and the Opus Clean Truck application. Do not attempt to install or operate this product without having completely read and understood the information presented. If you have questions, please contact Opus Inspection Customer Service.

MISUSE OF PRODUCT MAY CAUSE PERSONAL INJURY, DAMAGE TO EQUIPMENT, OR VOIDING OF THE MANUFACTURERS WARRANTY.

NOTE: Read and keep these safety instructions. Heed all warnings and follow all instructions.

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that this User Manual is read and completely understood by all persons operating or coming into contact with the device.

Intended Use

The device is intended for use by properly trained and skilled technicians that are authorized by the California Air Resources Board (CARB) to conduct HD I/M tests (Clean Truck Check). The safety information presented in this User's Manual reminds the operator to exercise safe care when conducting a smog check.

It is assumed that the operator has a thorough understanding of vehicle systems before using the device. Understanding of safety information and operating procedures is necessary for competent, safe and accurate use of the device.

Intended Personnel

There are no variations in procedures, techniques, tools, or in the skill of the individual doing the work in accordance with CARB and Opus Inspection guidelines. It is the automotive technician's responsibility to be knowledgeable about the testing system. It is essential to use proper service methods and test procedures. It is important to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the equipment being used, and the vehicle being tested. Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle being tested. Read, understand, and follow all safety rules in this manual when operating the device.

Follow These Safety Rules

1	Keep all cables out of the reach of motorists and passengers. Failure to do this may result in injury.
2	Do not disassemble or modify the device, as this may result in fire, electric shock, or device failure. Contact Opus Inspection Customer Service to inspect, adjust, and repair the internal components of the unit.
3	Do not use the device in abnormal conditions, i.e. presence of smoke, excessive heat, odd smell, peculiar noise, etc. This may result in fire, burns, shock or device failure. If such conditions exist, turn the power off immediately and remove all cables from all device ports. Contact Opus Inspection Customer Service.
4	In the event that any foreign material enters the device, turn off the power immediately and remove all cables from all device ports. Failure to do so may result in fire, electric shock, or device failure. Contact Opus Inspection Customer Service.
5	Do not spill liquids (coffee, water, oil, etc.) on the device. Do not use the device in areas where liquids may splash on the device. This may result in igniting a fire, burns, shock or device failure. Turn the power off immediately and remove all cables from all device ports. Contact Opus Inspection Customer Service.
6	To prevent danger of suffocation, keep plastic packaging out of the reach of motorist and passengers.
7	In the event of lightning strikes, do not touch the device to avoid potential electrical shock.
8	Do not expose device to an environmental temperature above 135°F (+55°C). This may result in a fire or device failure.
9	Damage to the device caused by dropping, throwing, being stepped on, etc., may prevent functionality of the device and may result in injury. In the event that the device is damaged, turn the power off immediately and remove all cables from all device ports. Contact Opus Inspection Customer Service.
10	Do not place heavy objects on the device.
11	Do not use the device in any manner contrary to the instructions in this manual, or to perform any functions not explicitly provided in this manual. This may result in injury or device failure.
12	Do not use solvents (i.e. paint thinner, benzene, alcohol, etc.) when cleaning the device. This may damage the surface. Clean the device using a clean, dry cloth.

Kit Overview

Your kit includes the following hardware components.

1.



OBD Device

2.



Tablet

3.



1 ft. HD Cable

4.



4 ft. DLC Cable

5.



3.3 ft. USB Cable

Hardware Descriptions

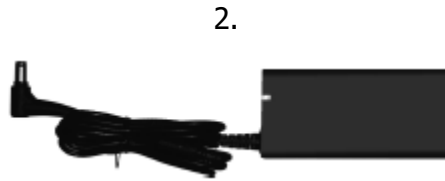
	Item	Description	Purpose
1	OBD Device	USB enabled Opus Clean Truck device, with Bluetooth	Provides a wireless interface between the test vehicle and the computer.
2	Tablet	Rugged tablet with Opus Clean Truck software	Performs HD tests with included software.
3	HD Cable	1 ft HD OBD cable Connections: <ul style="list-style-type: none"> • 9pin • OBDII - female 	Connects a DLC cable to J1939 Type II
4	DLC Cable	4 ft. Data Link Connector (DLC) cable. Connections: <ul style="list-style-type: none"> • OBDII - male • Computer - female 	Connects the OBD device to the test vehicle or HD cable
5	USB Cable	3.3 ft. USB Mini. Connections: <ul style="list-style-type: none"> • Computer - female • Device - female 	Connects the OBD device to the computer.

Tablet components

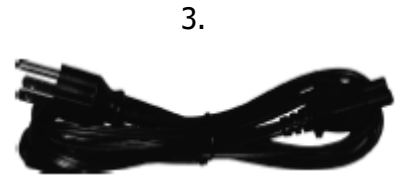
Your Tablet includes the following hardware components.



Tablet



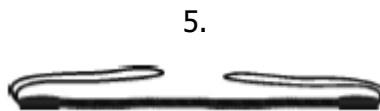
AC adapter



AC power cord



Stylus



Tether



Screen cleaning cloth

Getting started

The first time you use your Tablet, connect the AC adapter

1. Plug the AC power cord into the mating end of the AC adapter.
2. Plug the AC adapter circular connector into the bottom of the tablet (there may be a small cover)
3. Plug the AC power cord into an electrical outlet.



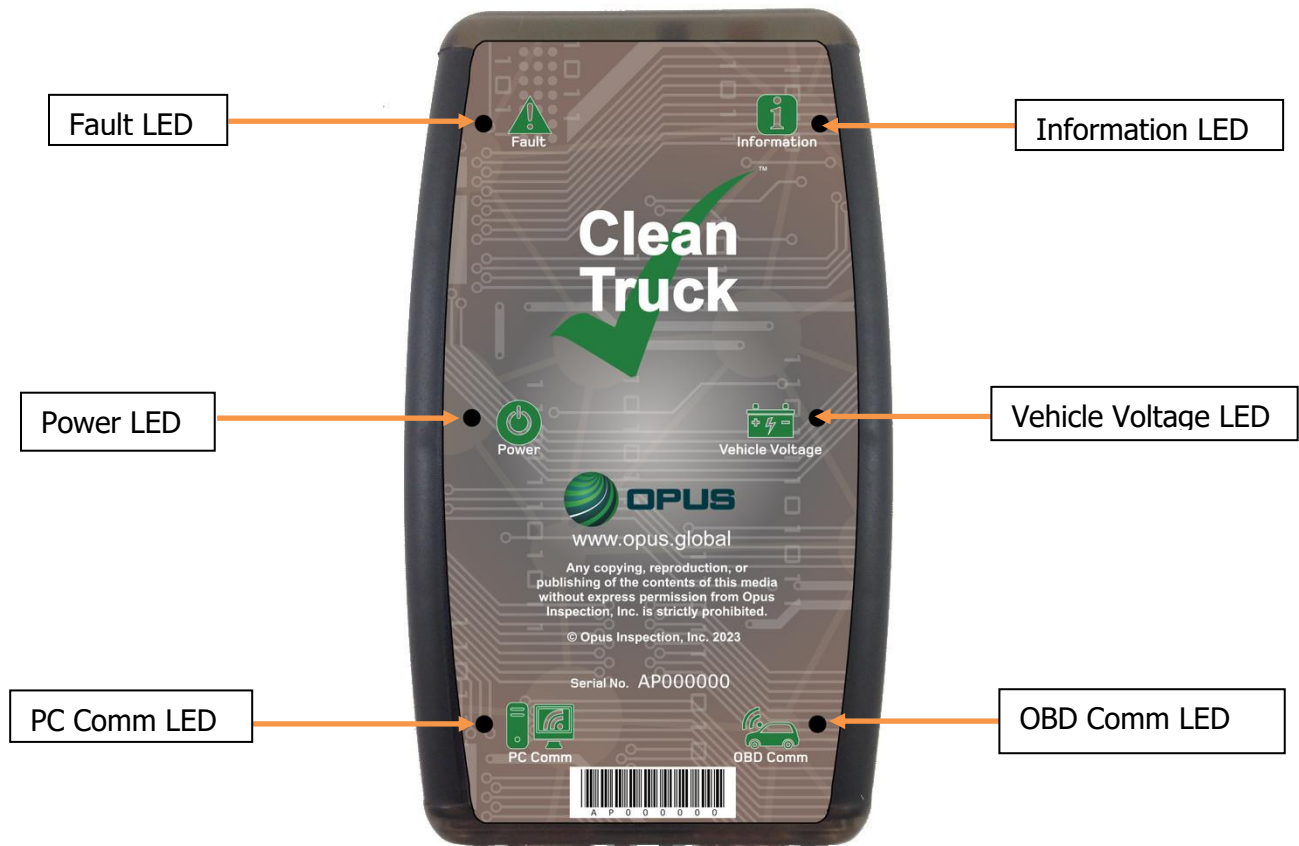
4. Press the power button to start up



- Note, it takes approximately 3 hours to fully charge the battery pack when the power is off and approximately 3.5 hours when the power is on. The Battery Charge Indicator on the tablet glows amber when charging is in progress, and glows green when its fully charged









Key Features (OBD Device)



Indicator LEDs

The OBD device has 6 indicator LEDs that illuminate when communicating test or device information to you. For more information on indicators, see Troubleshooting in the Appendix.

 <p>Fault</p>	<p>Fault Indicates a fault condition existed during the previous self-test.</p>
 <p>Power</p>	<p>Power Indicates device is on and running. If there has been no activity between the PC and device, the light will dim to indicate low power mode on wireless units.</p>
 <p>PC Comm</p>	<p>PC Comm Indicates data transfer between device and the PC.</p>
 <p>Information</p>	<p>Information Light flashes once every 2 seconds to indicate device is running in normal mode. Light flashes 5 times per second when the device firmware is being updated or is ready to be updated.</p>
 <p>Vehicle Voltage</p>	<p>Vehicle Voltage Illuminates when battery voltage is present on the vehicles OBDII port (pin 16).</p>
 <p>OBD Comm</p>	<p>OBD Comm Once a vehicle inspection has been initiated, this light indicates a communications link between the vehicle and device has been established.</p>

Cable Ports

Top Connections



Port	Connector	Function
USB	Mini USB 2.0	Connects device to the computer using a USB cable. Provides power and a communication link between the device and the computer.
Alternate Ground	1/8" Phono Jack	Connects device to the Alternate Ground cable. This is not used for the Clean Truck application.

Bottom Connections



Port	Connector	Function
DLC	Female	Connects device to the vehicle's DLC (OBDII) using either a DLC cable.
Self-Test	Male	Connects the 1 ft. Self-Test cable to the device. This is not used for the Clean Truck application.

Connections

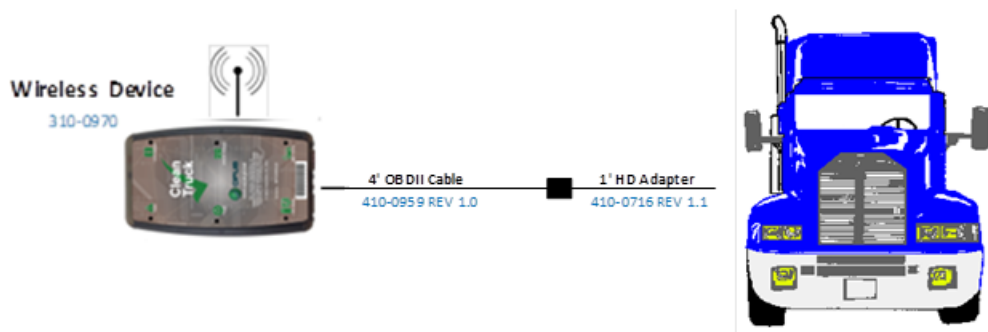
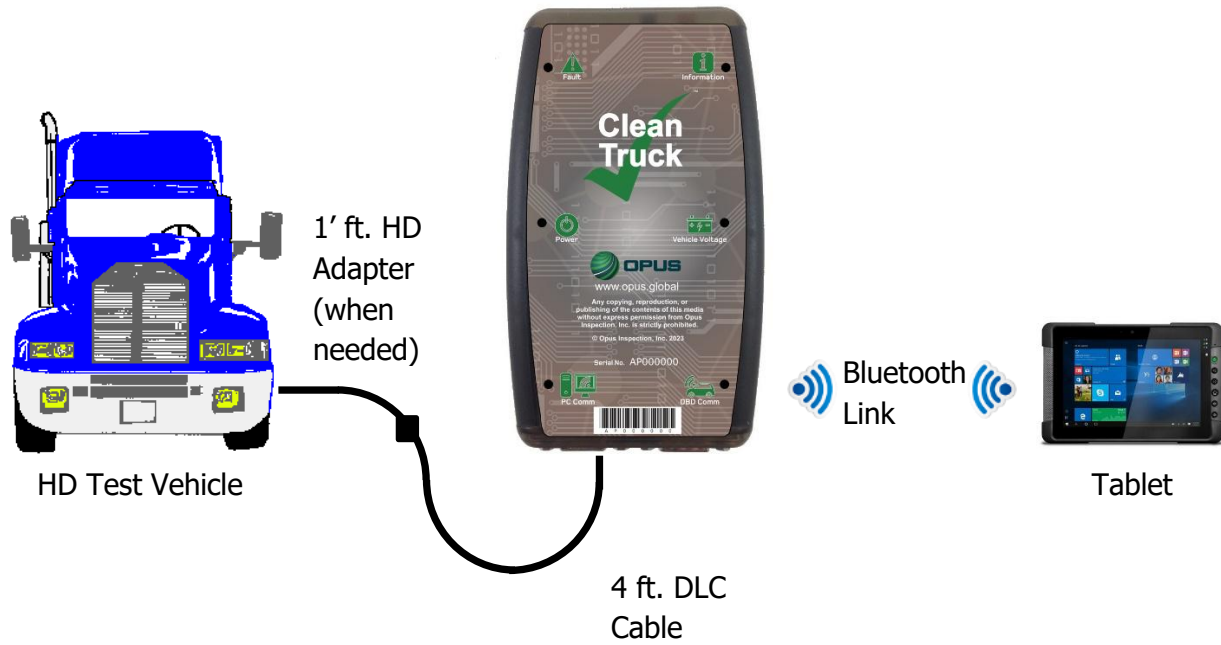


OBD Device

The OBD device has the ability to communicate with the computer wirelessly via Bluetooth technology. It is equipped with one 4 ft. vehicle DLC cable to conduct a test. Additionally, it includes a HD Cable which converts the 4 ft. cable into J1939 Type II. Also, a 3.3 ft. (1 meter) computer USB cable is provided.

Device Location	Cables Used
Next to the vehicle Next to the computer	<ul style="list-style-type: none"> 4 ft. vehicle DLC cable (or 4 ft DLC cable and HD Cable) 3.3 ft. computer USB cable (used to charge the device)

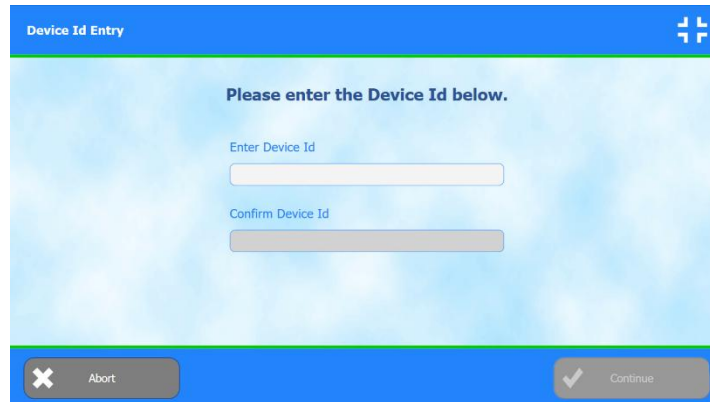
Wireless Connection Example



Entering the Device ID

If this is the first time using the tablet software, you will be prompted to enter the device ID associated with the Opus Clean Truck kit. Find the device ID located on the tag affixed to the tablet. The device ID will begin with "CACT" and be 14 digits long.

1. Enter the device ID at the prompt



2. Re-enter the device ID again, select **Continue**

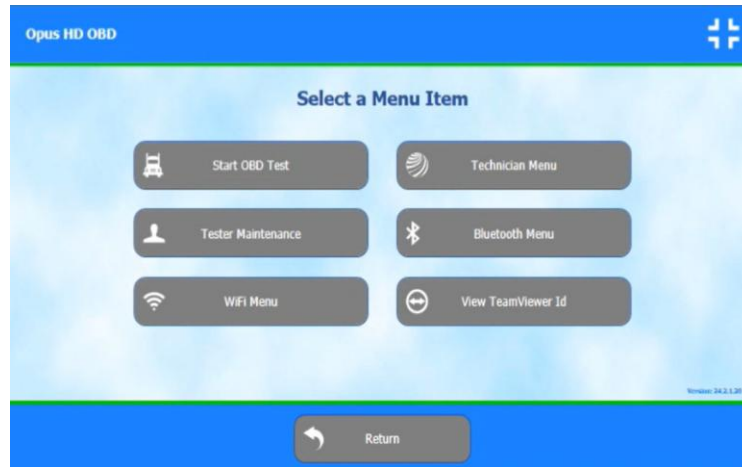


Once the device ID has been entered, you will not be prompted for this information again.

NOTE: It is very important that the device ID be entered correctly. To correct the ID if it is entered wrong will require a service call.

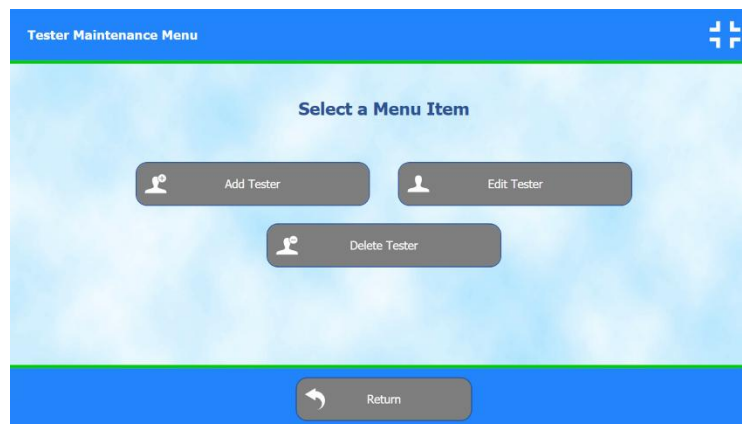
User Registration

If this is the first time using the tablet, you must register a user account. Users can be added, changed, and deleted from the Tester Maintenance menu available from the main screen.

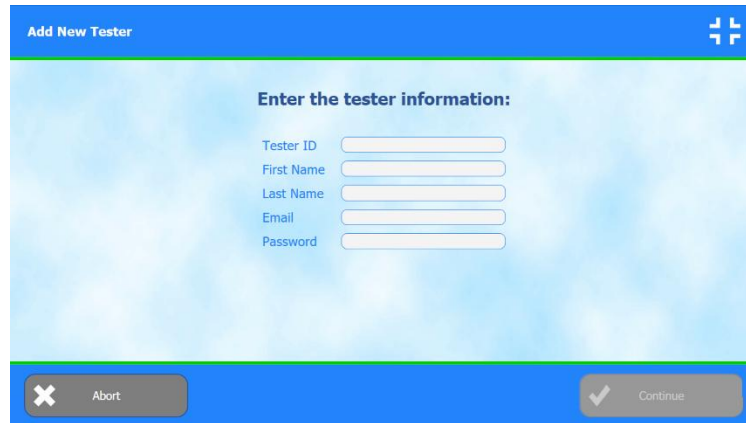


Adding a New User

1. From the Tester Maintenance screen, select **Add Tester** to add a new user

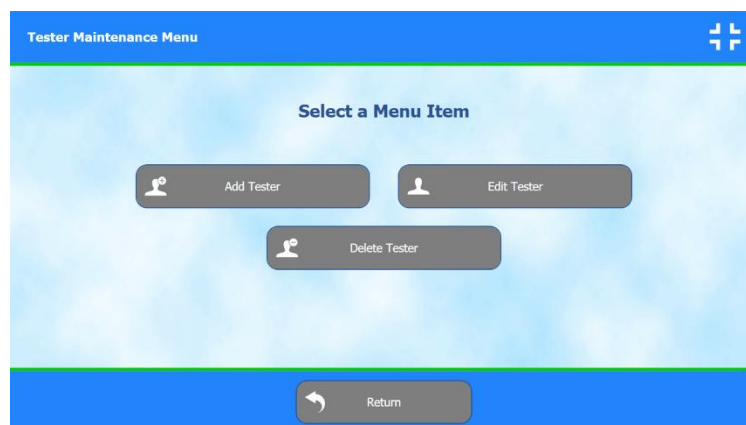


2. Enter all the information in the Add New Tester screen. The Tester ID entered here must match the Tester ID assigned by CARB. When the information is complete, select **Continue**



Editing an Existing User

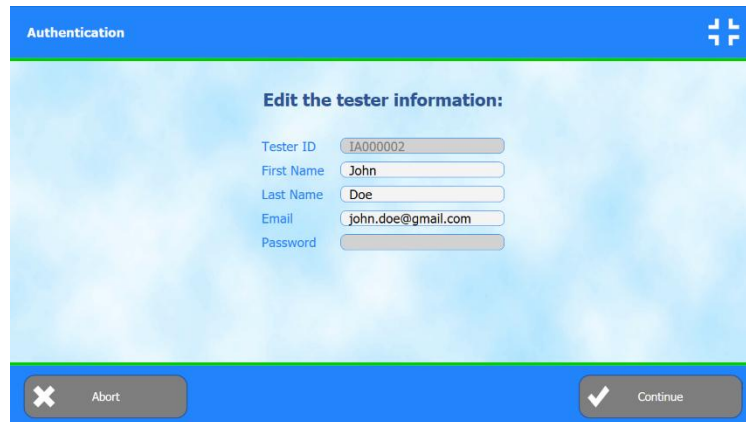
1. From the Tester Maintenance screen, select **Edit Tester** to edit an existing user



2. Login by entering the user ID and password of the user you would like to edit, select **Continue**



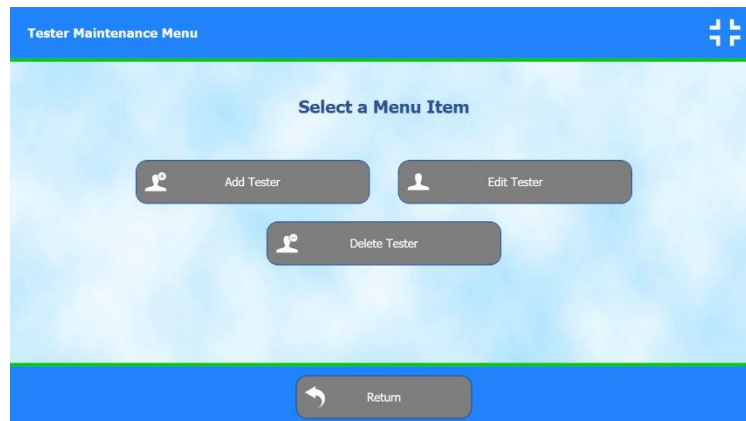
3. The current user information will be displayed. Change any information desired and when complete, select **Continue**. The Tester ID cannot be changed once a user is added.



The screenshot shows a mobile application interface titled "Authentication". The main content area is titled "Edit the tester information:" and contains five input fields: "Tester ID" (with the value "IA000002"), "First Name" (with the value "John"), "Last Name" (with the value "Doe"), "Email" (with the value "john.doe@gmail.com"), and "Password". At the bottom of the screen, there are two buttons: "Abort" (with a close icon) and "Continue" (with a checkmark icon).

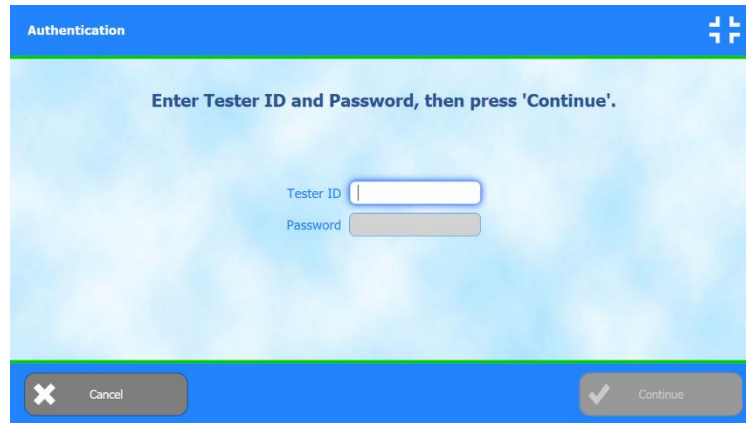
Deleting a User

1. From the Tester Maintenance screen, select **Delete Tester** to delete a user



The screenshot shows a mobile application interface titled "Tester Maintenance Menu". The main content area is titled "Select a Menu Item" and contains three buttons: "Add Tester", "Edit Tester", and "Delete Tester". At the bottom of the screen, there is a "Return" button with a back arrow icon.

2. Login by entering the user ID and password of the user you would like to delete, select **Continue**



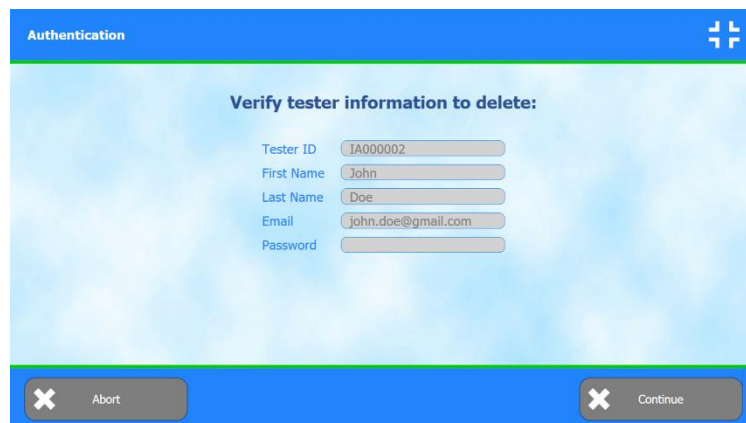
Authentication +

Enter Tester ID and Password, then press 'Continue'.

Tester ID

Password

3. Verify this is the proper user to delete, select **Continue**



Authentication +

Verify tester information to delete:

Tester ID

First Name

Last Name

Email

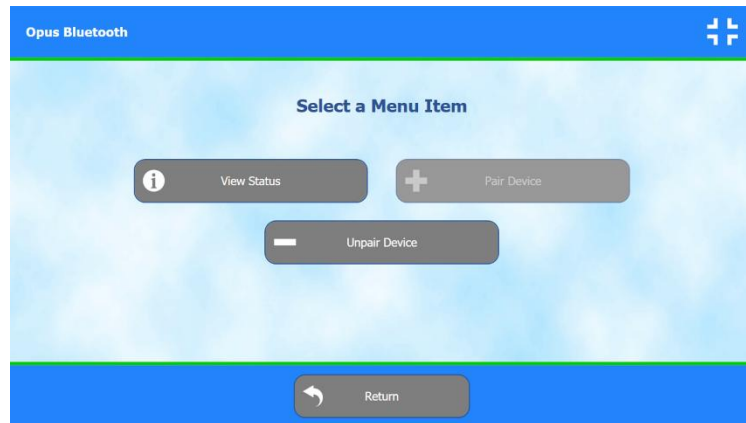
Password

Pairing the OBD Device

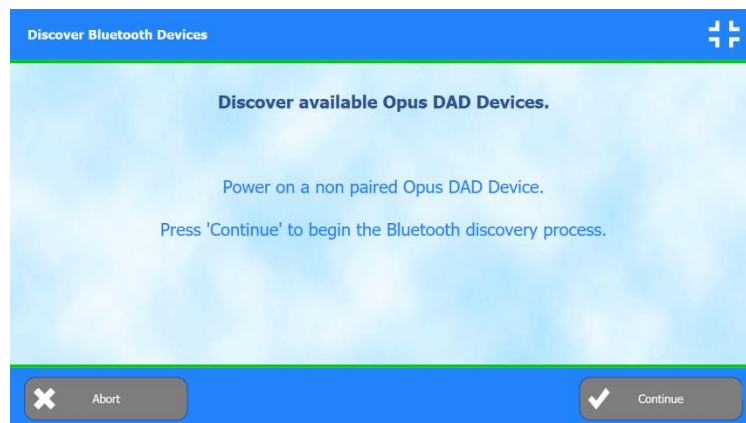
If this is the first time using the tablet, you must pair the OBD device with the tablet. Devices can be paired and unpaired from the **Bluetooth Menu** available on the main screen.

Pairing a Device

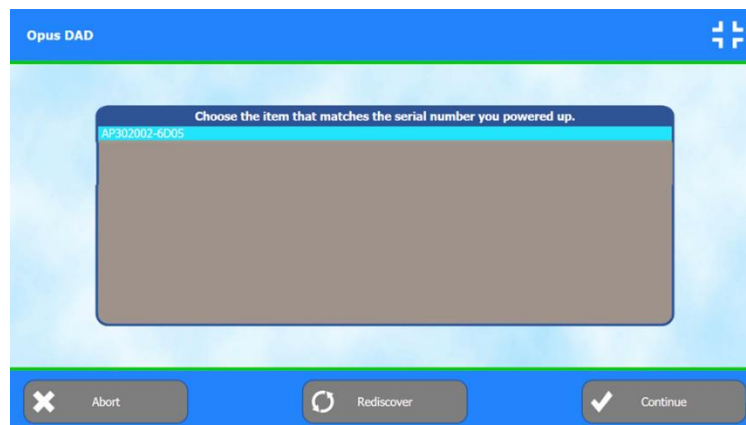
1. From the Bluetooth menu, select **Pair Device** to pair a device to the tablet



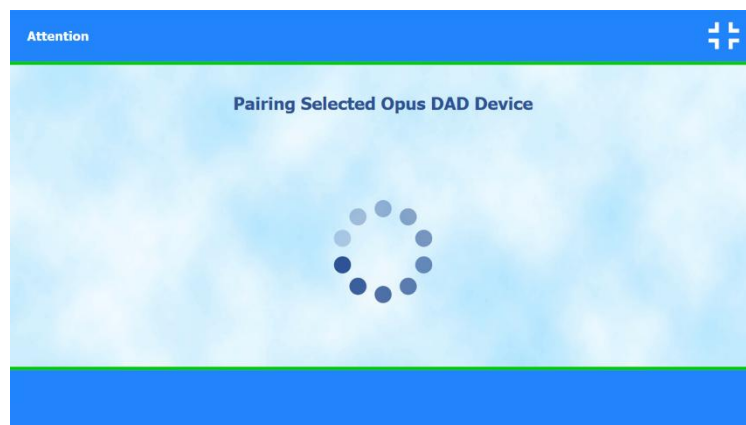
2. Plug the OBD device into the tablet using the included USB cable. The OBD device needs to be powered by the tablet or a vehicle for the pairing to work. Ensure the OBD device is powered, select **Continue**



3. The software will search for available OBD devices and display a screen with the results of the search. If your device does not appear in the list, ensure it is powered and select **Rediscover**. Select the item in the list that matches the serial number on the OBD device being paired, select **Continue**

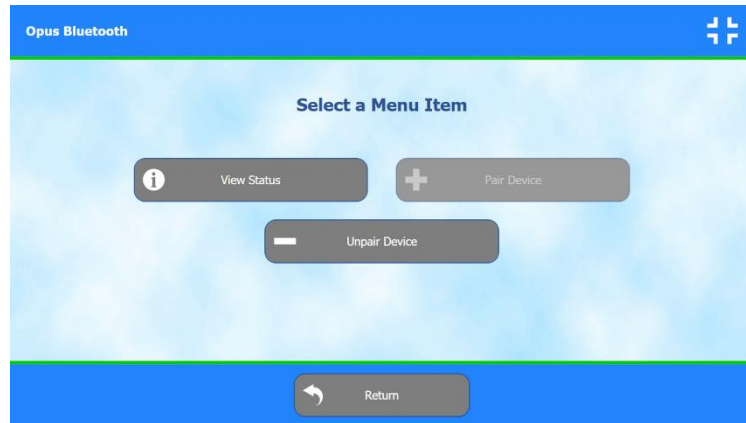


4. The OBD device will then be paired with the tablet and is ready for testing



Unpairing a Device

1. From the Bluetooth menu, select **Unpair Device** to unpair a device from the tablet



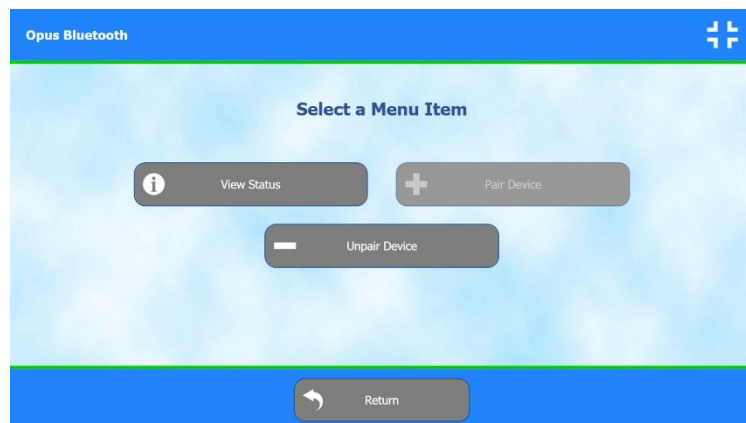
2. The unpairing process will begin



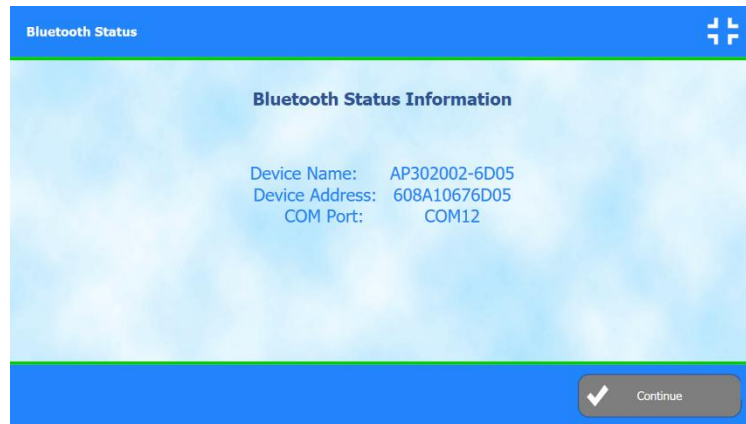
3. The software will unpair the currently paired device and return to the Bluetooth menu

View Paired Device Status

1. From the Bluetooth menu, select **View Status** to show if a device is paired to the tablet



2. The Bluetooth status screen will show the serial number of the OBD device if one is paired to the tablet. If not it will indicate no device is connected. To close the status screen, select **Continue**

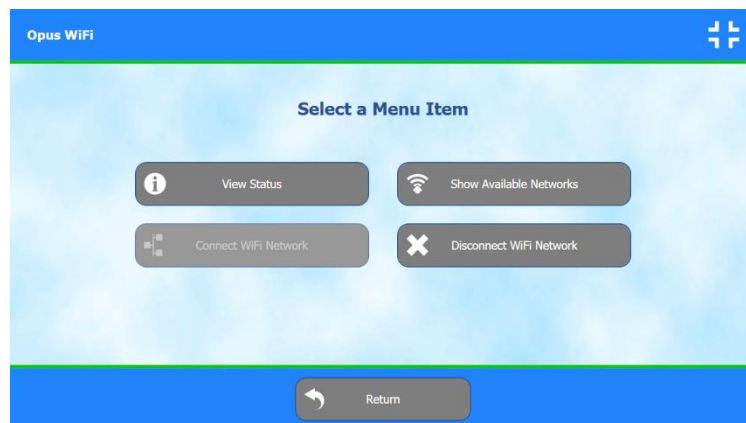


Connecting to WiFi

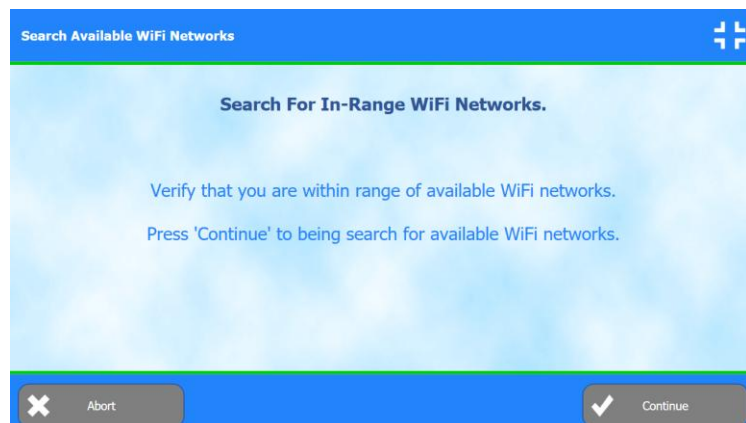
Before an inspection can be performed, the tablet must be connected to a WiFi network to send the inspection data to CARB. Network operations can be performed from the **WiFi Menu** available on the main screen.

Connecting to a Network

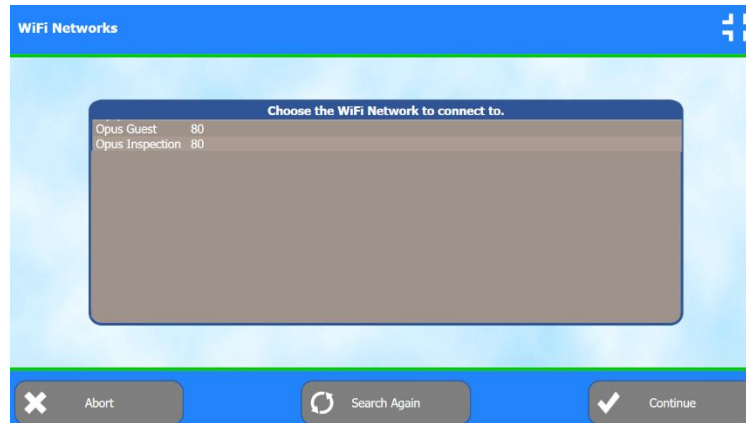
1. From the WiFi Menu select **Connect WiFi Network** to begin the network connection process



2. Ensure that the tablet is within range of the desired WiFi network, select **Continue**



3. The software will search for available WiFi networks and display a screen with the results of the search. Select **Search Again** at any time to restart the network scan. Select the desired network ID in the list, select **Continue**



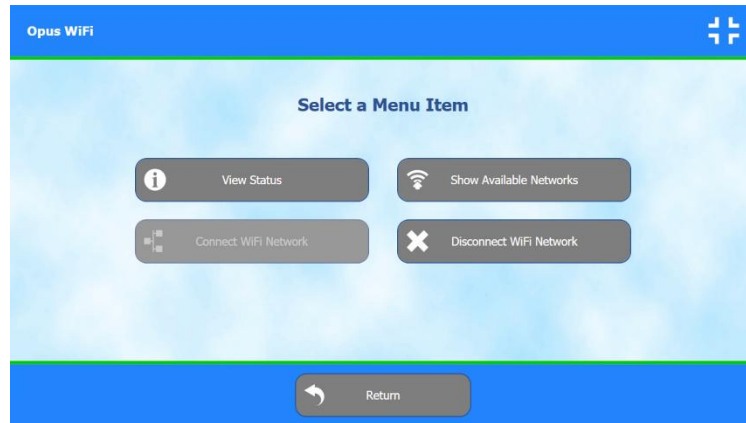
4. The software will prompt for the WiFi password if one is required. Enter the password, select **Continue**



5. The tablet will then connect to the WiFi network that was selected and be ready for testing

Disconnecting From a Network

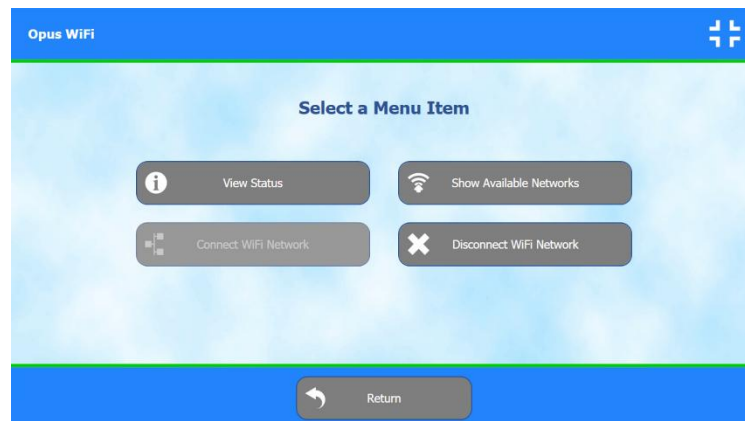
1. From the WiFi Menu select **Disconnect WiFi Network** to begin the network disconnection process



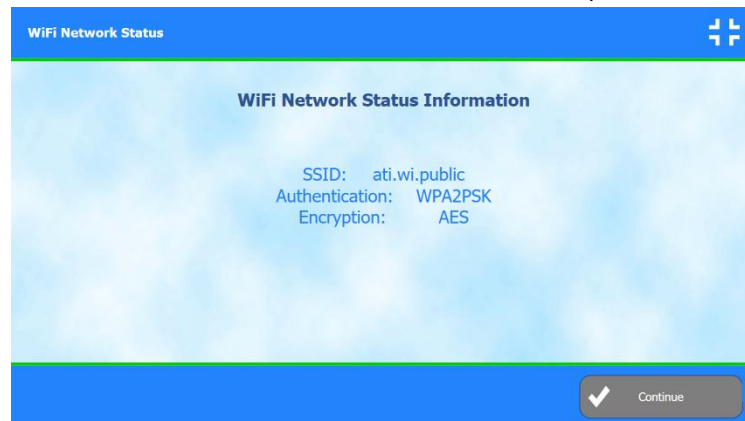
2. The software will disconnect from the WiFi network and return to the WiFi menu

View Network Status

1. From the WiFi Menu select **View Status** to show if the tablet is connected to a WiFi network

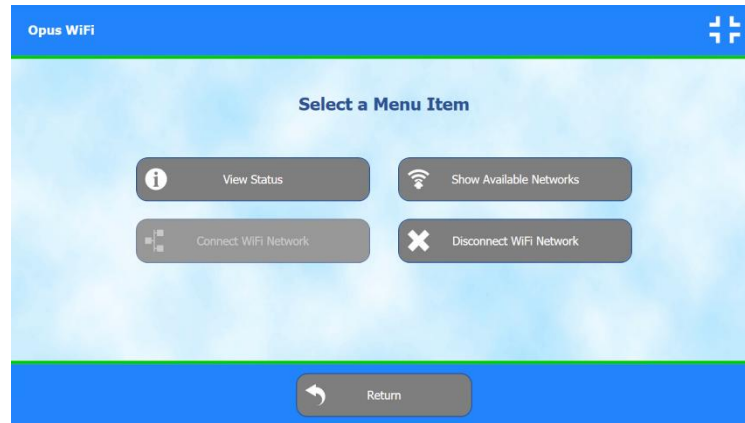


2. The network status screen will show the information for the WiFi network currently connected to. If the tablet is not connected to a network, the information will be blank. To close the status screen, select **Continue**

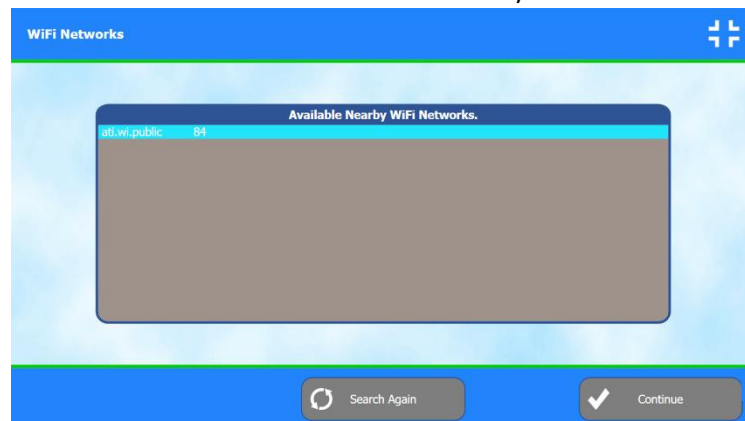


Show Available Networks

1. From the WiFi Menu select **Show Available Networks** to perform a WiFi scan for available WiFi networks



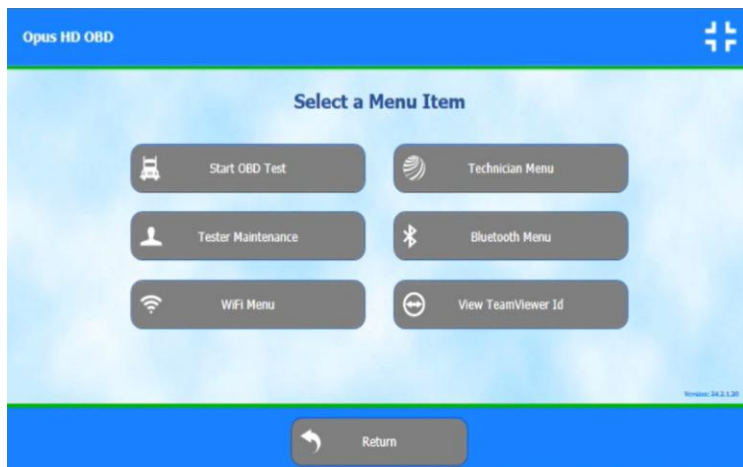
2. The software will search for available WiFi networks and display a screen with the results of the search. Select **Search Again** at any time to restart the network scan. To close the network list screen, select **Continue**



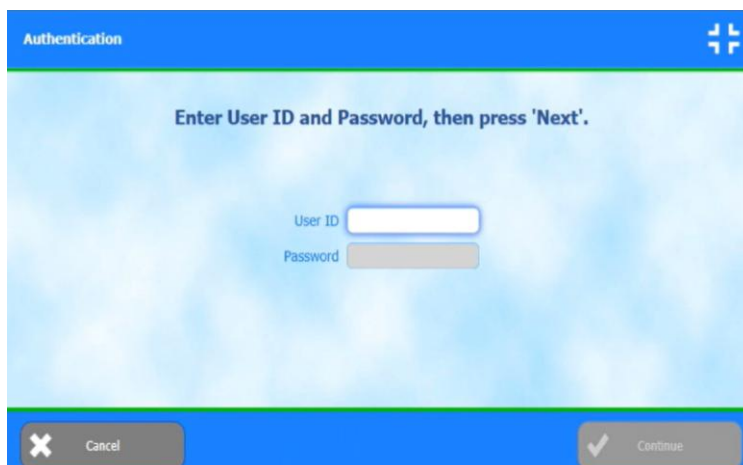
Performing an OBD Test

This option performs an official OBD test on a vehicle.

1. From the home screen, select **Start OBD Test**



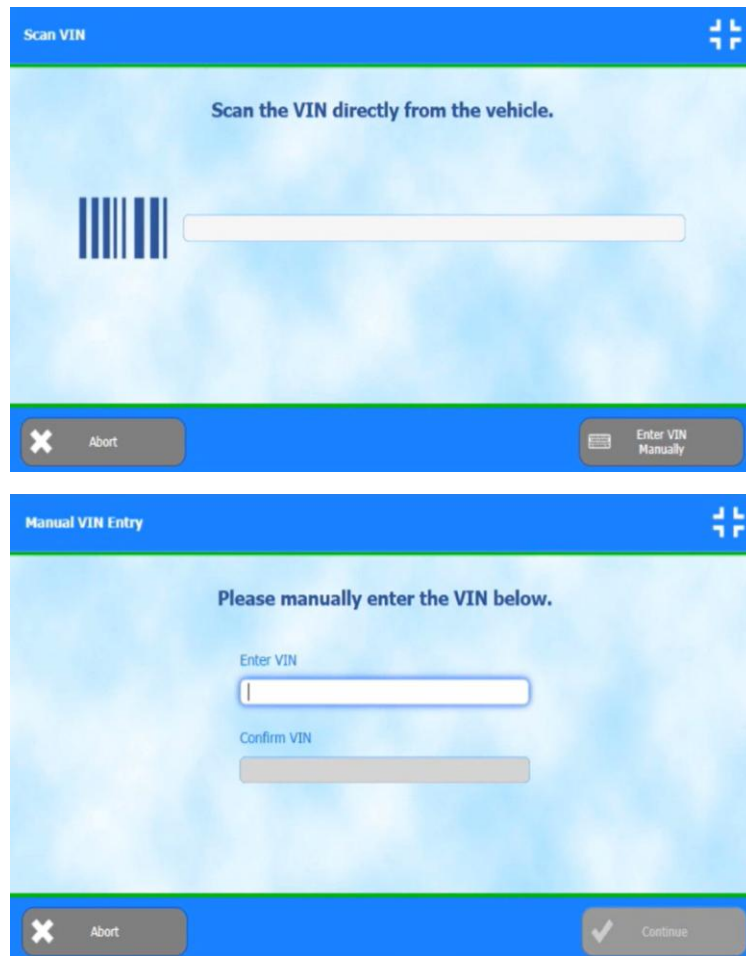
2. When prompted, log in with your User ID and Password, select **Continue**



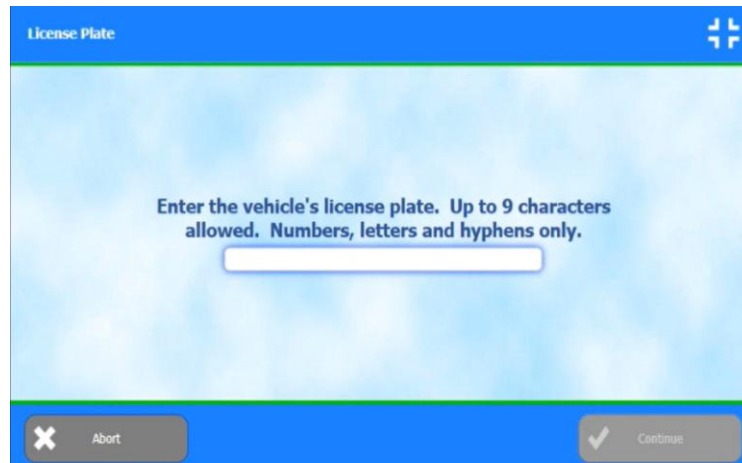
3. Select one of the options and select **Continue**
 - a. **Automatic** This will automatically detect which test to run (J1979 or J1939)
 - b. **HD OBD Test (J1939)** This will run the HD (J1939) test
 - c. **LD OBD Test (J1979)** This will run the LD (J1979) test



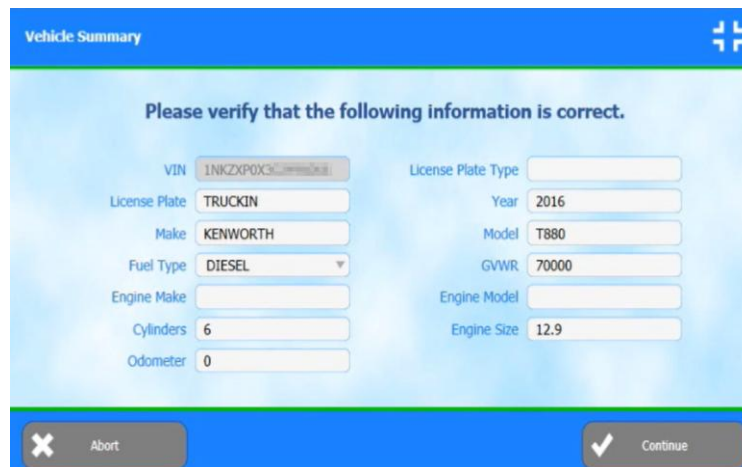
4. Scan the VIN of the vehicle being tested. The VIN be scanned using the **P1** button on the scanner. Alternatively, select **Enter VIN Manually** to type the VIN (double blind entry)



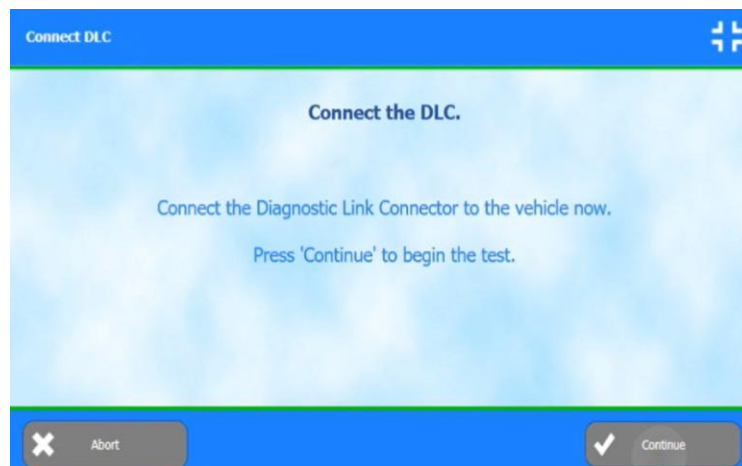
5. Type the license plate of the vehicle, select **Continue**



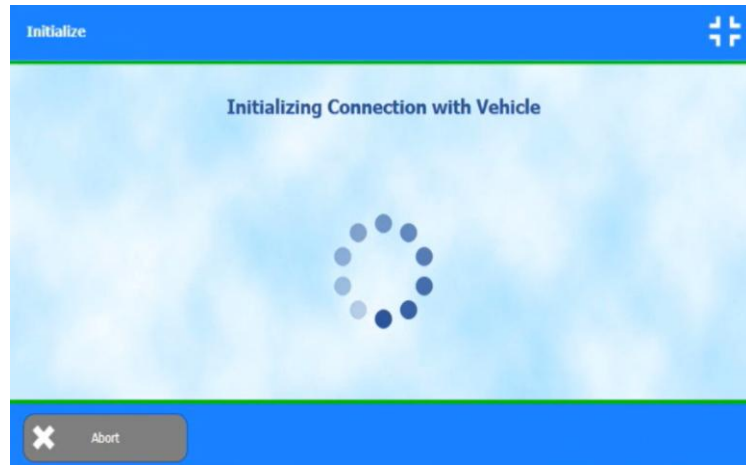
6. Verify the vehicle information is correct and modify anything that is not accurate, select **Continue**



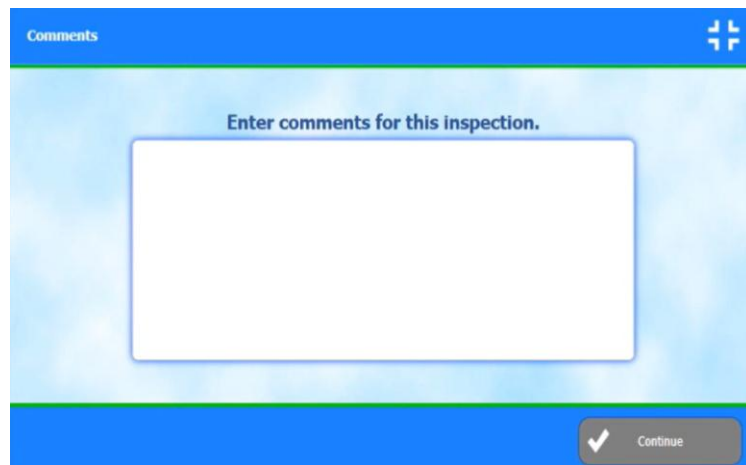
7. Connect the DLC cable to the vehicle, start the engine, select **Continue** to begin the test



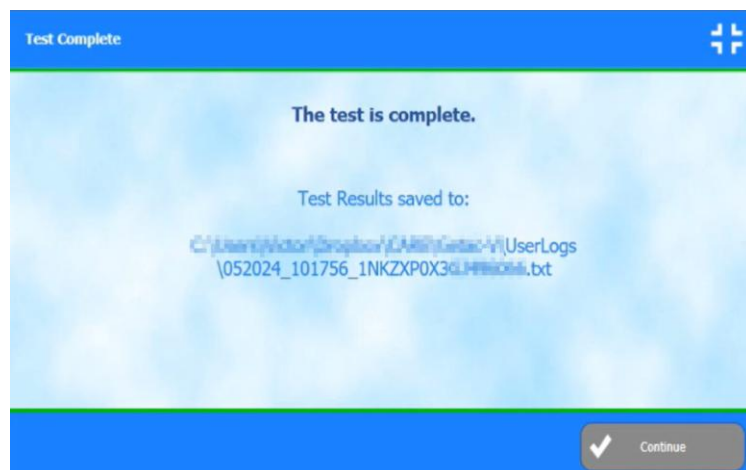
8. Communications will be attempted and if successful, the test will execute.



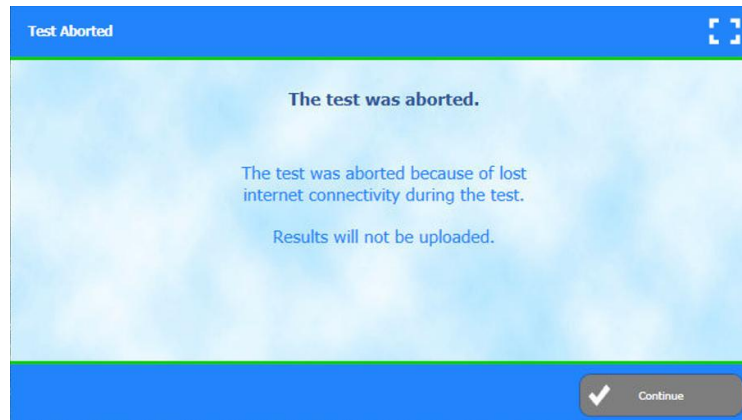
9. When completed, an option to enter comments will be displayed, select **Continue** to complete the test.



10. A test completed confirmation will be displayed, select **Continue** to return to the main menu.



11. Note that a connection to the internet must be maintained throughout the entire test. If the internet connection is lost during the test, the test will be aborted and must be run again.



Appendix

Maintenance

The OBD device is a durable device that requires little maintenance. Following a few simple procedures will help ensure its longevity.

Storage

Store your device in a dry and dirt free location.

Wireless Device Storage

When not in use, connect the device to the tablet using the USB cable provided.

Cables

Inspect the ends of the DLC and cables regularly to ensure they are in good working order.

Troubleshooting

If you are having difficulty with your device, read this section before calling for technical support.

Power

Difficulty	Suggestions
No Power – Wireless Version	Connect device to the tablet using the USB cable to confirm the power light illuminates.

Vehicle Communication

Difficulty	Suggestions
OBD Comm didn't illuminate	-Check all cables to confirm they are properly and securely connected. -Confirm OPUS Clean Truck software is open and operational.

Indicator Lights

Difficulty	Suggestions
OBD Comm didn't illuminate	Check all cables to confirm they are properly and securely connected.
	Confirm OPUS Clean Truck software is open and operational.

Power light didn't illuminate	Check all cables to confirm they are properly and securely connected.
Information light illuminated	Light flashes once every 2 seconds to indicate device is running in normal mode. Light flashes 5 times per second when the device firmware is being updated or is ready to be updated.

Internet

Difficulty	Suggestions
Can't connect to the internet	Contact Opus Inspection Customer Support

OPUS Clean Truck Software

Difficulty	Suggestions
Software isn't functioning properly	Contact Opus Inspection Customer Support

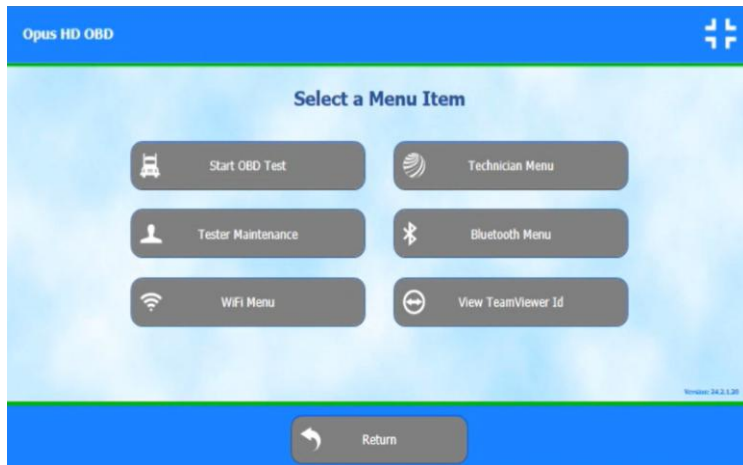
Wireless Tips

If the power lights do not illuminate when you plug the device into the vehicle, you will need to provide power to the device via the USB cable.

If it ever happens that you cannot obtain communications after ensuring your device has power, please unplug the device from both the vehicle and the USB until all the lights go out. Then, wait 10 seconds and plug it back in. You should be able to resume testing.

Remote Diagnostic Support

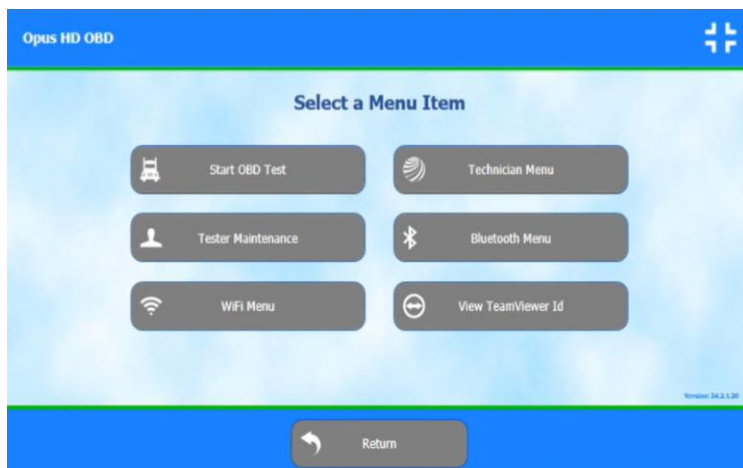
The tablet has a remote support feature installed to allow for remote troubleshooting and issue resolution. Clicking **View TeamViewer Id** from the main menu will display an id number that can be provided to Opus support personnel.



This allows an authorized Opus Inspection representative a way to remotely log in to your tablet and offer troubleshooting and diagnosis. There is also an integrated chat option available where inspectors can send and receive text from the Opus Inspection representative assisting them during the support process.

Technician Menu

The Technician Menu contains items used by Opus Technicians and is not accessible to users.



Contacting Customer Service

Contact Opus Inspection Customer Service for technical assistance, placing orders and to ask questions.

Technical Support

Email: support@smogDADdy.com

Telephone: 855-766-4323

Hours: Monday – Friday from 8 AM – 5 PM Pacific

Ordering

To order cables, devices or system components contact Opus Inspection Customer Service as mentioned above.

Specifications

Item	Specification
Computer Interface	USB 2.0
Computer Interface (wireless)	Bluetooth Class 2
Bluetooth Version	V2.1 + EDR
Frequency	2.402 ~ 2.480 MHz
FCC ID	T9J-RN42
RF Transmit Power	0 ~ 4 dBm
Sensitivity at 0.1% BER	-86 dBm
Operating Temperature	20°F ~ 130°F
Storage Temperature	0°F ~ 135°F
Max. cordless distance	30 feet (10 meters)
Dimensions	6.05"L x 3.5"W x 1.015"H
Power Source	USB

Regulatory Information

Any modifications or changes (e.g., antennas) made to this device may void the user's authority to operate this device.

Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions.

1. This device must accept any interference received, including interference that may cause undesired operation.
2. This device may not cause harmful interference.

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for the general population. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.