



# NYVIP2

## Vehicle Inspection Operators Manual

Version 4.0



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# 1 Introduction

## 1-1 Conventions



Important information or helpful tip



Procedural alert! Read before proceeding.



Hazard or safety warning!

## 1-2 Important General Safety Instructions



When using the analyzer, please read and follow all safety instructions carefully.

- ◆ Remain in the vehicle during emissions inspection.
- ◆ Handle equipment with care! The analyzer components can be damaged with carelessness.
- ◆ Do not drop equipment.
- ◆ Care should be taken to arrange cables and cords so that they will not be tripped over or pulled.
- ◆ Always have adequate ventilation when working on vehicles with the engine running.
- ◆ Use analyzer equipment as described in this manual.
- ◆ Use only Opus approved attachments.
- ◆ Follow all NYVIP2 operating policies and procedures.



Other important safety precautions

### *Toxic Fumes*

Make sure the inspection area is well ventilated, because motor vehicle inspections generate toxic emissions. ***Failure to ventilate properly can be lethal to operators and other personnel.***

### *Electrical Shock*

The analyzer system uses several cables and cords to connect between various pieces of equipment. Avoid contact with liquids, either through spillage or placing these items on a wet floor. ***Make sure all***

*contacts are dry before connecting them to other system components. Failure to do so may result in severe or lethal damage to yourself, other personnel, or damage to the equipment.*

### *Tripping Hazard*

When moving about inspection area, be aware the analyzer and other inspection lane equipment may have several cables, hoses, and cords running between various pieces of equipment, especially during inspections. *Failure to take care in the inspection lane surroundings may result in damage to your health, other personnel, and/or equipment.*



**NOTICE:** This manual is intended to provide technical guidance on the operation of the analyzer. Do not attempt to operate this product without fully reading and understanding the information presented.



**WARNING:** Any physical abuse or misuse of this product will void the manufacturer's warranty.

## 2 NYVIP2 Program Overview

### 2-1 Inspection Program Background

Private-sector businesses licensed and approved by the New York Department of Motor Vehicles (DMV), perform safety and/or emissions inspections, and issue compliance inspection certificates (stickers) to motorists in conformance with the Commissioner's Rules and Regulation. Compliance with regulations is monitored and managed by the DMV's Division of Vehicle Safety Services (VSS) and Clean Air, and by the Division of Air Resources at the New York Department of Environmental Conservation (DEC). VSS licenses and audits inspection stations to ensure the stations are operating in compliance with the Commissioner's Rules and Regulations. The DMV and DEC approve hardware and software, and compile data for EPA reporting requirements.

Vehicle technology has evolved over the years, increasing the scope and complexity of the vehicle inspection program. In order to improve the air quality in New York State, and to comply with EPA regulations, DMV and DEC incorporates OBDII technology into the current inspection process. DMV also licenses official diesel emission inspection stations (ODEIS), while DEC audits ODEISs for compliance with DEC's regulations.

All model year (MY) 1996 and newer light duty vehicles, manufactured for sale in the United States, have the ability to self-diagnose the state of the vehicle's emission control systems, and to detect potential emissions failures. This technology is referred to as **On-Board Diagnostic Systems**, or **OBDII**. Controlled by the vehicle's on-board computer, the vehicle regularly monitors engine performance and other critical emissions related components to identify when there may be an emissions system related problem. If a potential or actual problem is identified, the vehicle's Malfunction Indicator Light (MIL) will illuminate, notifying the driver to have the vehicle serviced.

## 3 NYVIP2 Analyzer Overview

### 3-1 NYVIP2 Analyzer—Computerized Vehicle Inspection System (CVIS)

The Opus analyzer represents a blend of innovation and proven reliability. It is comprised of a compact profile that easily facilitates placement on either a station provided work surface or as part of an optional, ultra-compact cabinet designed specifically for crowded shop environments.

The NYVIP2 Computerized Vehicle Inspection System equipment and unified Vehicle Information Database (uVID) host computer system are designed according to EPA guidance documentation, EPA final rule making, and according to specific requirements defined by both the DMV and DEC. Analyzer inspections are used to determine pass/fail outcomes for all vehicles subject to the New York Vehicle Inspection Program (NYVIP2).

Under DMV and DEC guidance, Opus has implemented revised policies and procedures and new, state of the art technology to update the vehicle inspection program.



### 3-2 NYVIP2 Analyzer Configuration

The Opus NYVIP2 analyzer will include the following hardware and software:

- ◆ PC: Dell OptiPlex 3010n Minitower with:
  - 4GB DDR3 RAM, 250 GB hard drive, 1.9 GHz Processor, 1.5 MB Processor Cache;
  - 56K, PCIe, USR5638 Modem;
  - Input devices: 8USB, 2 PS/2, 1NIC, 1 HDMI, 1 VGA, 1 Serial, 1 Audio in, 1 Audio out, 1 Speaker and 1 MIC; and
  - Slots: 1 PCIe1 and 3 PCIe16.
- ◆ Dell Model E1912H 18.5-inch Flat Panel Monitor with LED display;
- ◆ Microsoft LifeCam Model VX-2000 Web Camera
- ◆ USB full keyboard;
- ◆ USB optical mouse, with Fellowes Microban thin mouse pad;
- ◆ Okidata B4400 USB/Parallel laser printer;
- ◆ Honeywell Xenon 1900 GSR MVRIS-M15 Point & Shoot 2D with 15' Cable barcode scanner;
- ◆ SPX OBD2 Link model SPX S9020, with SPX OBD2 professional grade cables;
- ◆ Microsoft Windows 64 bit Embedded Version 7 software; and
- ◆ Opus proprietary analyzer application software.



### **OBdII Connector**

The OBdII connector link is provided for inspection of applicable vehicles. During OBdII inspections, the OBdII link is connected to the vehicle's DLC (diagnostic link connector) to obtain the vehicle's status. The analyzer software includes a DLC locator tool with information and to assist you in locating the DLC on different vehicles. The analyzer applies advanced vehicle look-up and OBdII inspection methods to reduce the inspection time by connecting the OBdII link to the vehicle at the very beginning of the inspection process. Refer to Chapter 15 Vehicle Inspection for details.

### **VIR Printer**

The analyzer system includes a printer for Vehicle Inspection Report Printing.

### **Analyzer Cabinet (Optional)**

The analyzer cabinet, if purchased, will store the PC (computer) and hardware needed for conducting vehicle inspections. Devices include the analyzer computer, bar code reader, monitor/screen, keyboard, mouse, OBdII link, etc. These devices all work together to support the vehicle inspection process.

### **Opacity Meter (Optional)**

The Opacity Meter is an optional hardware component that is needed for the inspection of applicable Heavy Duty Diesel Vehicles over 8,500 lbs. During an Opacity inspection, the Opacity Meter is connected to the vehicle via the tail pipe utilizing probes.

The computer will integrate the OPUS 100 diesel opacity transducer. The OPUS 100 is a partial stream Opacity Transducer developed according to the European standards ECE R-24 and ISO 11614 and designed to meet all legislations in Europe as well as in the rest of the world.

## 3-3 NYVIP2 Analyzer Operation

### **OBDII Test**

An OBDII (On-Board Diagnostics II) emissions inspection is usually the first choice for an emissions inspection for all 1996 or newer gas fueled vehicles, and 1997 or newer light-duty diesel fueled vehicles. The inspection vehicle's on-board computer monitors the key components of these systems, not only when the engine is running, but also anytime the ignition is turned on. If any of the readings indicate sub-par performance, the OBD computer sets a flag, or code, which the analyzer detects during an emissions inspection.

## 4 NYVIP2 Analyzer System Installation

\* Please see the NYVIP2 Emissions Analyzer Setup Guide. This guide can be obtained from the Opus website at [www.NYVIP.org](http://www.NYVIP.org) under Forms & Downloads.

## 5 NYVIP2 Analyzer Menus

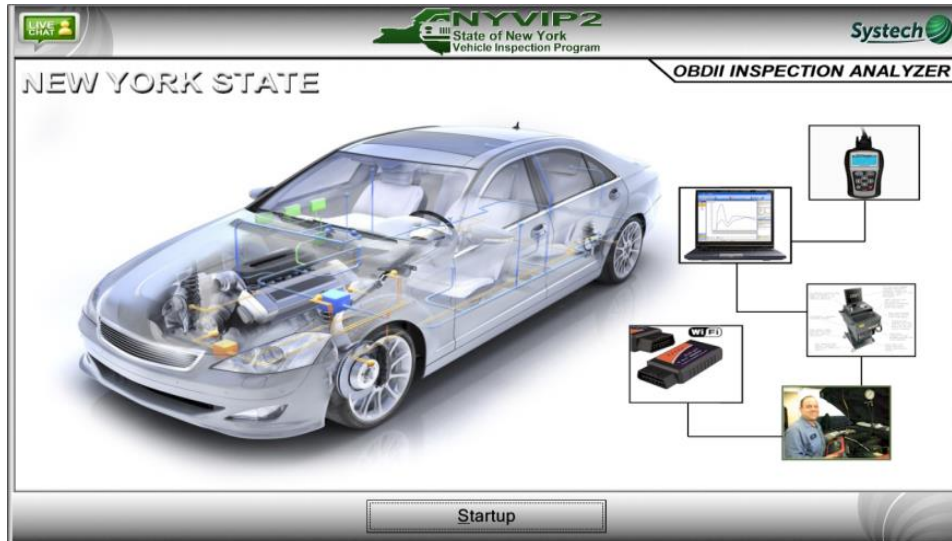
The computer's main menu system provides access to the functions you need to perform vehicle inspections. The menu system also allows you or your station manager to carry out necessary administrative tasks. This chapter explains these features and how to apply them to the routine operation of your inspection station. This manual provides detailed descriptions of selected functions in other chapters, referenced in this section. Please note: menu items can change per software version.



## 5-1 Start Up Menu

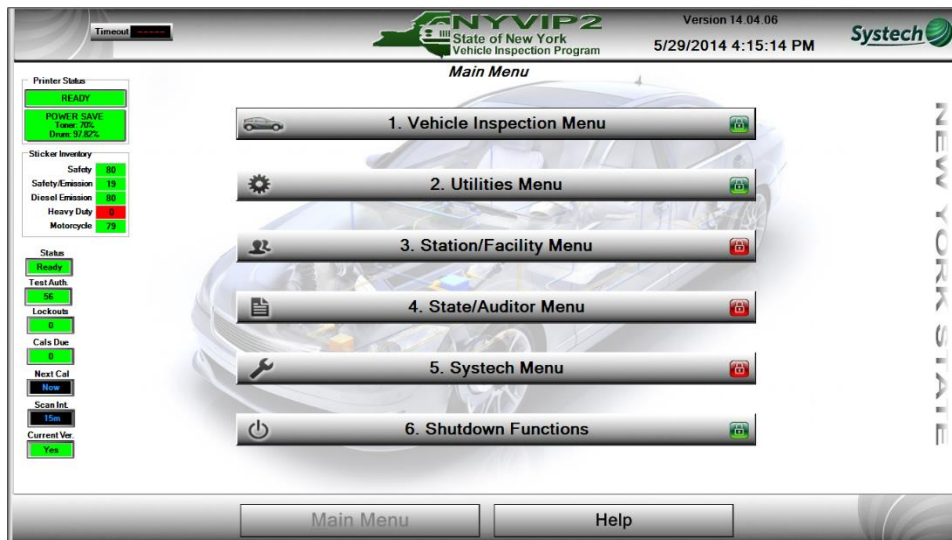
The following menu is displayed when the computer is turned on.

Select **'Startup'** to proceed to the **Main Menu**.



## 5-2 Main Menu

The **Main Menu** is shown below and is the entry to the system.

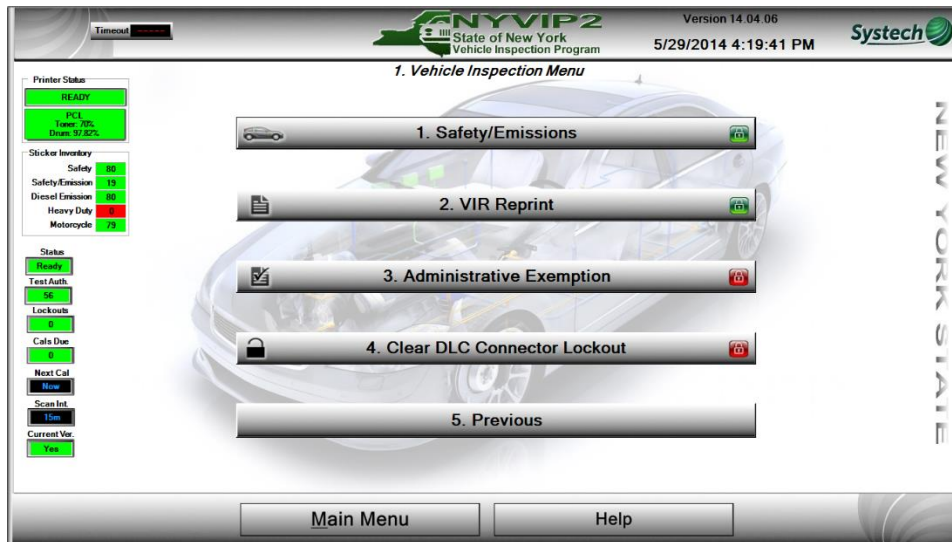


The following items are available from the **Main Menu**:

1. **Vehicle Inspection Menu** – Any user can access this menu, though certain menu items only allow access to authorized station users, such as performing a vehicle inspection.
2. **Utilities Menu** – Any user can select this menu to check equipment consoles, reprint a VIR, update workstation information, view lockouts, access reports or configure communication and hardware settings.
3. **Station/Facility Menu** – Users designated as a manager can select this menu to perform inspections in the training mode, Add/Remove Inspectors, Purchase Test Authorizations, Re-send records to the VID, and Add/Remove Sticker Inventory.
4. **State/Auditor Menu** – Authorized state users can select this menu to view/add inspectors, view analyzer status, check the video, check communications, set/view lockouts, perform audits, or perform other state functions.
5. **Systech Menu** – Authorized Opus users can select this menu to check equipment consoles, update software, view/print documents, calibrate equipment, check communications, set or view lockouts, update workstation information, reset unit date/time, audit station, audit bench, or access shutdown functions.
6. **Shutdown Functions**– Any user can select this menu to view the options to shut down or restart the analyzer.

**Help** – Selecting the **Help** button causes the **Help** document to display. The **Help** button is available on many screens.

## 5-3 Vehicle Inspection Menu



The following items are available from the **1. Vehicle Inspection Menu**:

1. **Safety/Emissions** – Any user can select this menu, but only authorized inspectors can proceed with a vehicle inspection.
2. **VIR Reprint** – Any user can select this menu to search and reprint a VIR.

3. **Administrative Exemption** –Authorized users can select this menu to perform an administrative exemption if given the ability by the state.
4. **Clear DLC Connector Lockout** – Authorized users can select this menu to clear a DLC connector lockout.
5. **Previous** – Select **Previous** to go back to the **Main Menu**.

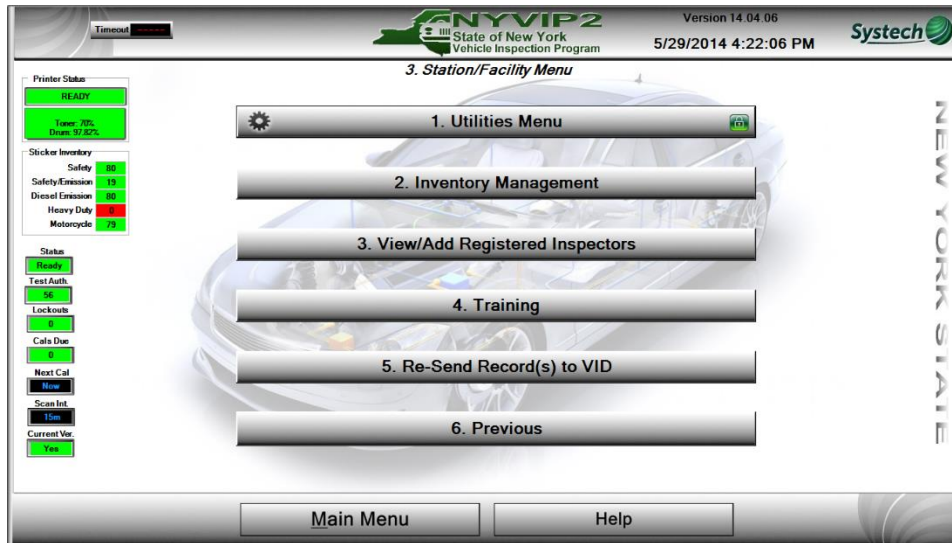
## 5-4 Utilities Menu



The following items are available from the **2.Utilities Menu**:

1. **Documents and Information** –Any user can select this menu to view documentation, reprint a VIR, view Bulletins/Messages that are available and access Daily Reports.
2. **View Lockouts** –Any user can select this menu to view lockouts.
3. **Configuration** –Any user can select this menu to change the inspector password, check the analyzer status, select the printer, configure serial communications ports, activate and manage station licenses and reset the SPX Tool Firmware.
4. **Calibrations** –Any user can select this menu to perform an OBD link protocol check and to calibrate the Opacity Meter.
5. **Communications** – Any user can select this menu to perform a full or incremental data file refresh, change the network settings, resend test records, check VID communications, and setup the wireless OBD tool.
6. **Shutdown Functions** – Any user can select this menu to shut down or restart the Analyzer.
7. **Change Inspector Password** – Any user can select this menu item to change the inspector password.
8. **Previous** – Select **Previous** to go back to the **Main Menu**.

## 5-5 Station/Facility Menu



The following items are available from the **3. Station Menu**:

- 1. Utilities Menu** – Users designated as a manager can select this to view documentation, reprint the VIR, view bulletins/messages, view lockouts, review the analyzer status, view registered inspectors, complete printer selection, configure serial communication ports, update workstation information, perform a full or incremental data file refresh, change network settings, check VID communications, pair the wireless OBD tool, and restart the analyzer.
- 2. Inventory Management**– Users designated as a manager can select this to Add and Remove Sticker Inventory, and purchase Test Authorizations
- 3. View/Add Registered Inspectors** – Users designated as a manager can select this to view, add, or remove registered users or change their access levels.
- 4. Training** – Users designated as a manager select this to run a training inspection that is the same as a vehicle inspection but does not use a test authorization.
- 5. Re-Send Record(s) to VID** – Users designated as a manager can select this to resend inspection records to the VID if the analyzer was off-line at some point or if the analyzer has been locked out for “no contact”.
- 6. Previous** – Select **Previous** to go back to the **Main Menu**.

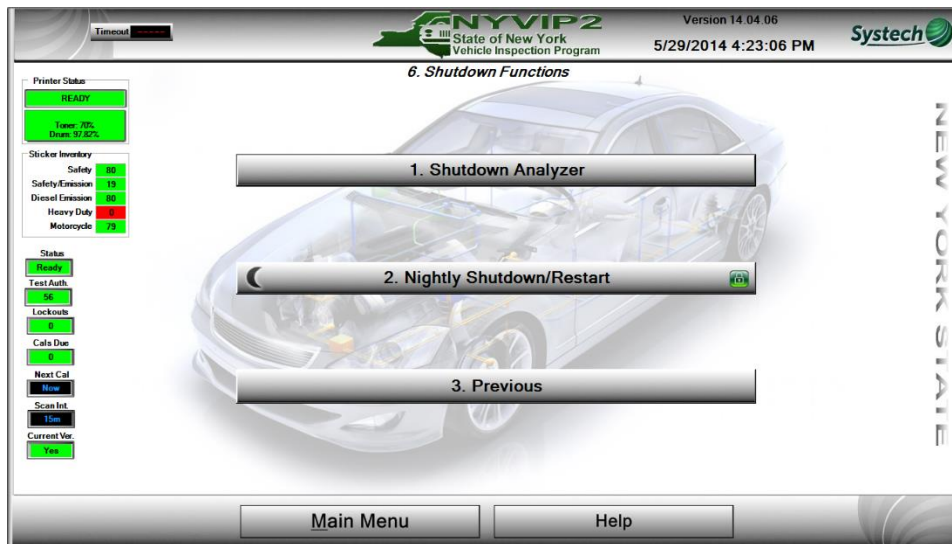
## 5-6 State/Audit Menu

The **State Menu** is for State personnel use only.

## 5-7 Opus Menu

The **System Menu** is for Opus personnel use only.

## 5-8 Shutdown Functions Menu



The following items are available from the **Shutdown Functions Menu**:

1. **Shutdown Analyzer** – Any user can select this menu item to shut down the Analyzer.
2. **Nightly Shutdown/Restart** – Any user can select this menu item to perform a nightly shutdown and restart the Analyzer.
3. **Previous** - Select **Previous** to go back to the **Main Menu**.

# 6 Secure Login

## Logging In

Upon selection of a secure menu item (as indicated by a red lock), the user will be prompted to scan the barcode of their Inspector License and enter a password.

### First Time Login:

If logging in for the first time, the user will be asked to enter their temporary password.

The Temporary Password will be the first name and the last name of the inspector, all in capital letters, separated by a period (i.e. FIRSTNAME.LASTNAME).

If you are unable to login, contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**.

**New User**

Required Security Level: Inspector

**User Authentication Required**

Inspector #: UserN

Password:

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | None    |
| MC       | None    |

**First Time Logon! Enter Temporary Password Now.**

**Valid License(s) Found, Inspection(s) Permitted!**

\* Temporary password = Firstname.Lastname as it appears on badge.

Select Continue (alt/c) or Enter to proceed

Continue Cancel

The user will then be prompted to enter a new password:

**First Time Logon**

**Enter your new password**

New User

Password:

Confirm:

\* Password should be between 5 and 10 characters and can not contain spaces.

OK

Enter the password.

Enter the password again to confirm the first entry.

Select **'OK'** to proceed.

The user will then be prompted to login using the new password (as created above).

**New User**

Required Security Level: Inspector

**User Authentication Required**

Inspector #:

Password:

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | None    |
| MC       | None    |

**Please enter your new password to proceed**

Enter Password

\* Temporary password = Firstname.Lastname as it appears on badge.  
**Select Continue (alt/c) or Enter to proceed**

Once the password is entered, select **'Continue'** to proceed.

### Secure Login (after First Time Login):

The user will be prompted to scan the barcode of their Inspector License.

**Inspector**

Required Security Level: Inspector

**User Authentication Required**

Inspector #:

Password:

**Scan Badge to Log On to System**

**If your ID is not listed contact Systech for assistance**

\* Temporary password = Firstname.Lastname as it appears on badge.  
**Select Continue (alt/c) or Enter to proceed**

Once the Inspector License has been scanned the password must be entered to continue.

The screenshot shows a dialog box titled "TEST SYSTECH" with a blue header. Below the header, it says "Required Security Level: Inspector". The main area is titled "User Authentication Required" and features a green padlock icon. There are two input fields: "Inspector #" with the value "14TB" and "Password:" with "\*\*\*\*\*". To the right, a "Licenses" table shows "LD", "HD", and "MC" all with "Current" status. A red message "Password Entry Required." is displayed above a green bar that says "Enter Password to Proceed". Below this is a blue bar with the text "Valid License(s) Found, Inspection(s) Permitted!". At the bottom, it says "Select Continue (alt/c) or Enter to proceed" and has "Continue" and "Cancel" buttons.

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | Current |
| MC       | Current |

The analyzer will display an error message in response to any invalid entries.

This screenshot is similar to the first one, but the "Password:" field is empty. A red bar at the bottom of the main area displays the message "Invalid Password Entered!". The rest of the interface, including the "Inspector #" field, the "Licenses" table, and the bottom buttons, remains the same.

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | Current |
| MC       | Current |



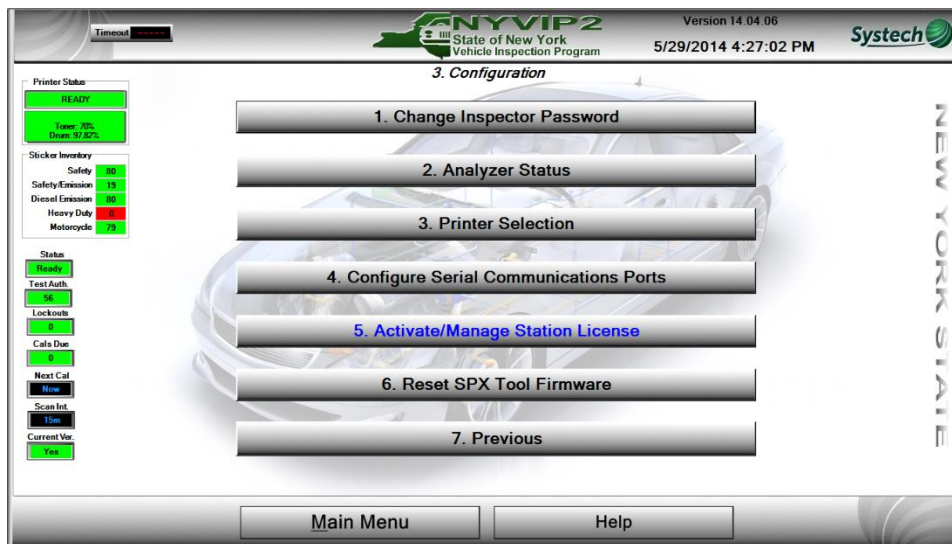
# 7 Pre-Inspection Check List

1. Station is licensed.
2. Inspector is licensed for the appropriate inspection type.
3. Test authorizations are loaded.
4. Stickers are loaded for the appropriate inspection type.
5. Lockouts are clear.
6. Printer Status Ready.

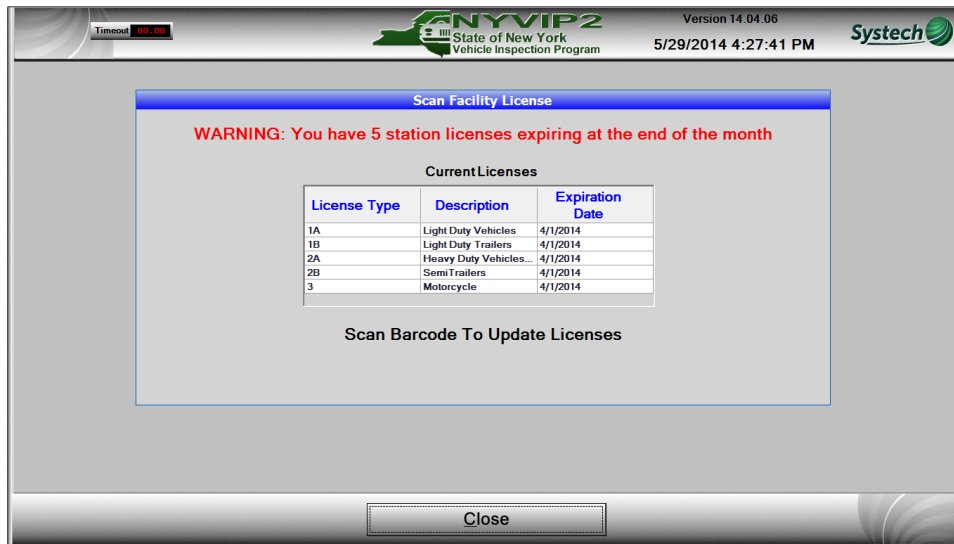
# 8 Station Licenses

For the Vehicle Inspection process, the station must have the appropriate license to perform a vehicle inspection.

From the **Main Menu**, Select **2. Utilities**, **3. Configuration**, **5. Activate/Manage Station License**.



Scan the Facility Barcode

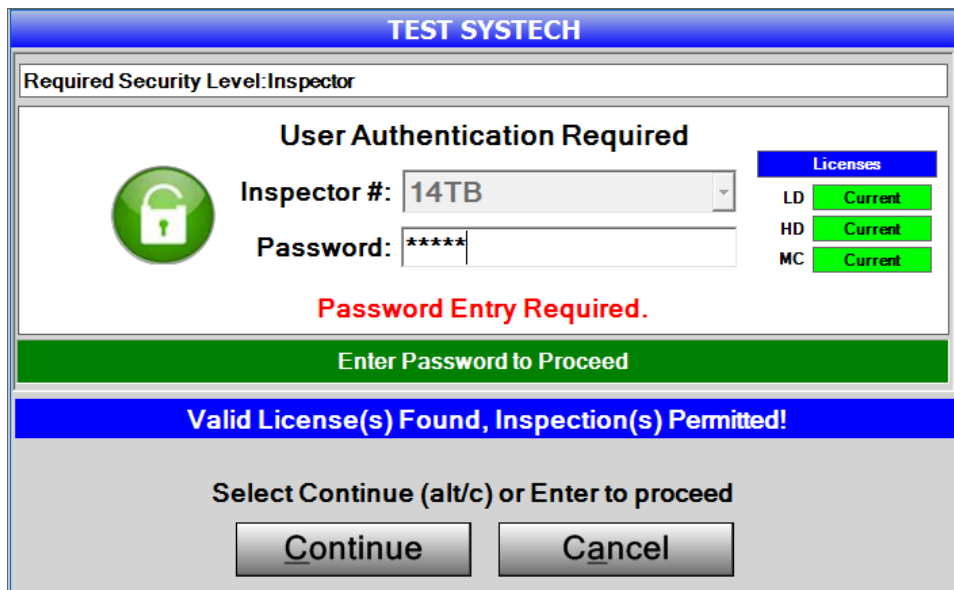


After scanning the barcode the licenses that are assigned to this station will be displayed.

## 9 User Licenses

For the Vehicle Inspection process, the authenticated user must have the appropriate license to perform a vehicle inspection.

The user license is displayed on the login screen:



Note the licenses displayed for the user:

The user depicted below, may only perform Light Duty Vehicle inspections (LD).

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | None    |
| MC       | None    |

A user with the following licenses may perform Light Duty, Heavy Duty, and Motorcycle inspections:

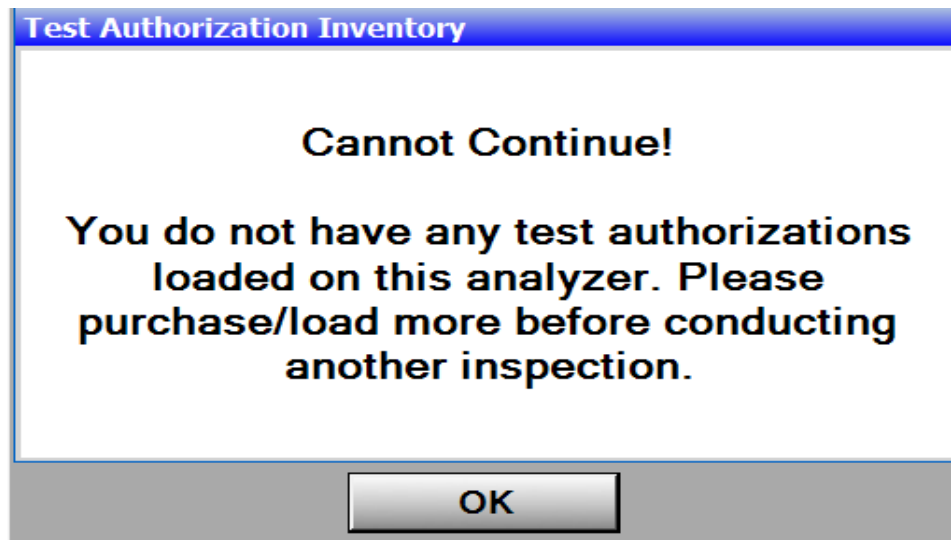
| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | Current |
| MC       | Current |

*NOTE: If the user does not have a valid license for the type of inspection needing to be performed, the inspector will not be able to proceed with the inspection.*

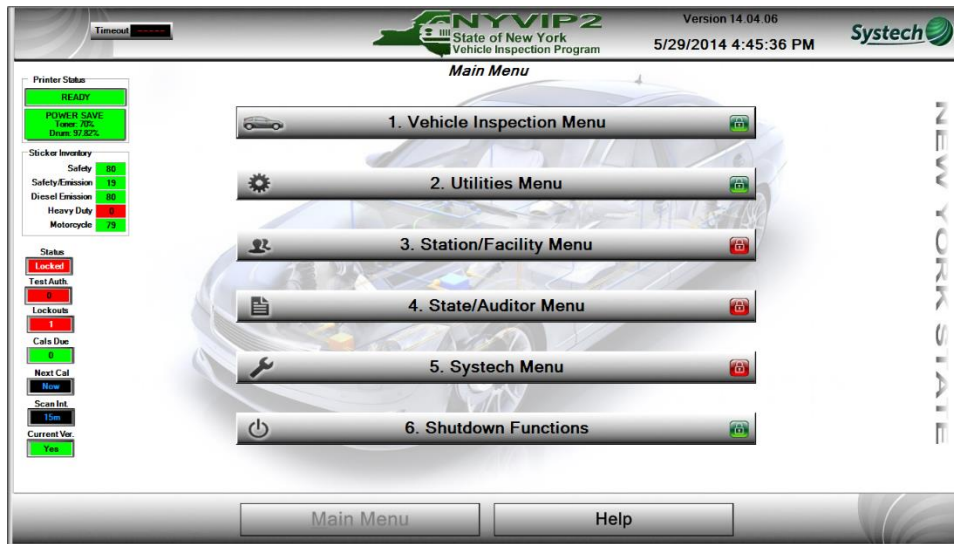
## 10 Test Authorizations



Note: In order to complete a vehicle inspection, the analyzer must have test authorizations available. If there are no test authorizations available in the analyzer the following message will be displayed during the inspection process.

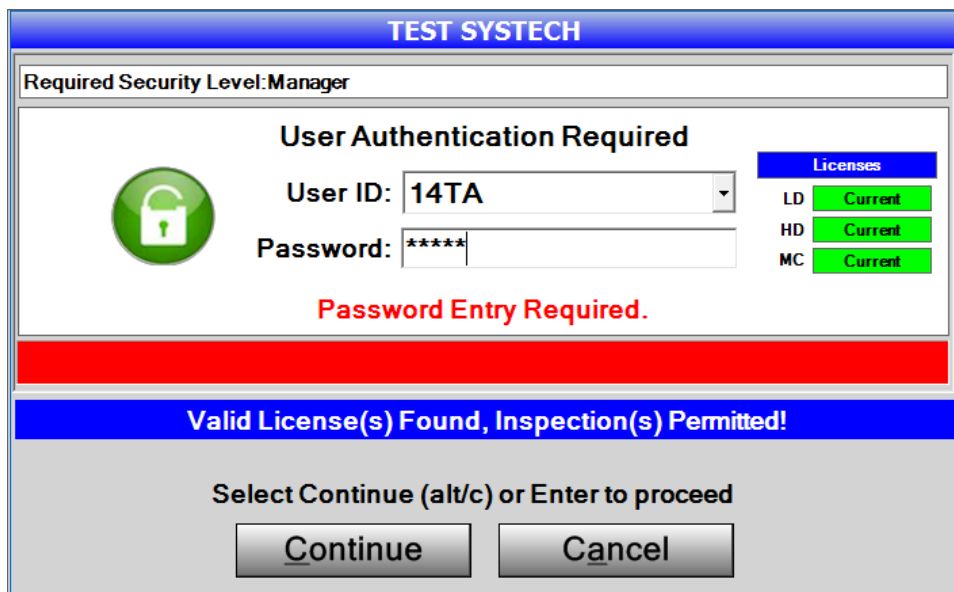


Test Authorization Status is indicated on the 'Main Menu' on the left side of the screen.



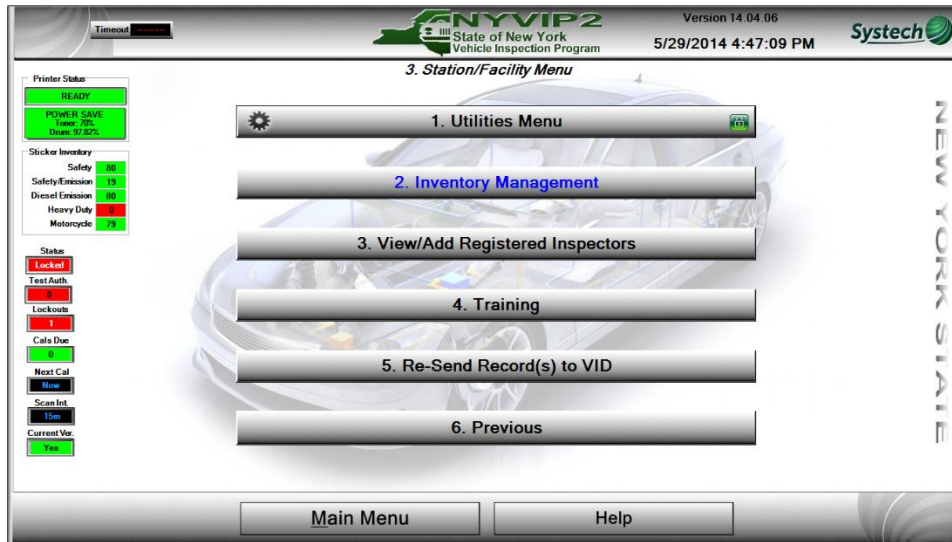
To load test authorizations select **3. Station/Facility Menu** from the **Main Menu**.

A login prompt will appear. Scan badge then enter password and press Continue to move forward. Only a manager will be allowed access this menu.

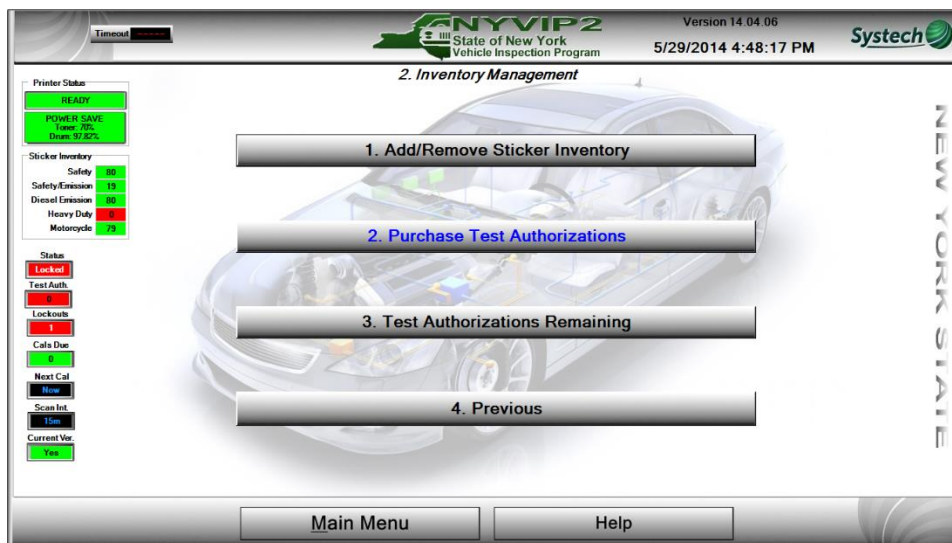


\* An ACH account must be established to purchase/auto reorder test authorizations from the analyzer. An ACH account can be setup or Test Authorizations can be purchased using a credit card on the Opus website at [www.NYVIP.org](http://www.NYVIP.org)

Select **2. Inventory Management**.



Select **2. Purchase Test Authorizations**



From the Test Authorization Order Form the user can order up to 25 batches of authorizations or set-up recurring orders at a set period and amount of batches.

The screenshot shows the 'Test Authorization Order Form' interface. At the top, it displays 'NYVIP2 State of New York Vehicle Inspection Program', 'Version 14.04.06', and '5/29/2014 4:48:58 PM'. The main title is 'Test Authorization Order Form'. Below the title, it states '1 Batch = 20 Authorizations. Maximum 25 Batches/Day' and 'Current Authorization: 0'. The interface is divided into two main sections: 'Order Test Authorization' and 'Setup Auto Reordering'. In the 'Order Test Authorization' section, there is a prompt 'Select Number of Batch(es), then press Continue' and a 'Number of Batch(es):' field with a dropdown menu showing options from 0 to 7. In the 'Setup Auto Reordering' section, there is a checkbox for 'Auto Reorder' which is checked, and a 'Reorder quantity in Batch(es):' field with a dropdown menu showing '1'. There are also radio buttons for 'Day of Month' (set to 0) and 'Threshold (By individual)' (set to 18). At the bottom of the form, there is a blue banner that reads 'New authorizations will appear after next data refresh' and three buttons: 'Continue', 'Cancel', and 'Help'.

## Order Test Authorizations

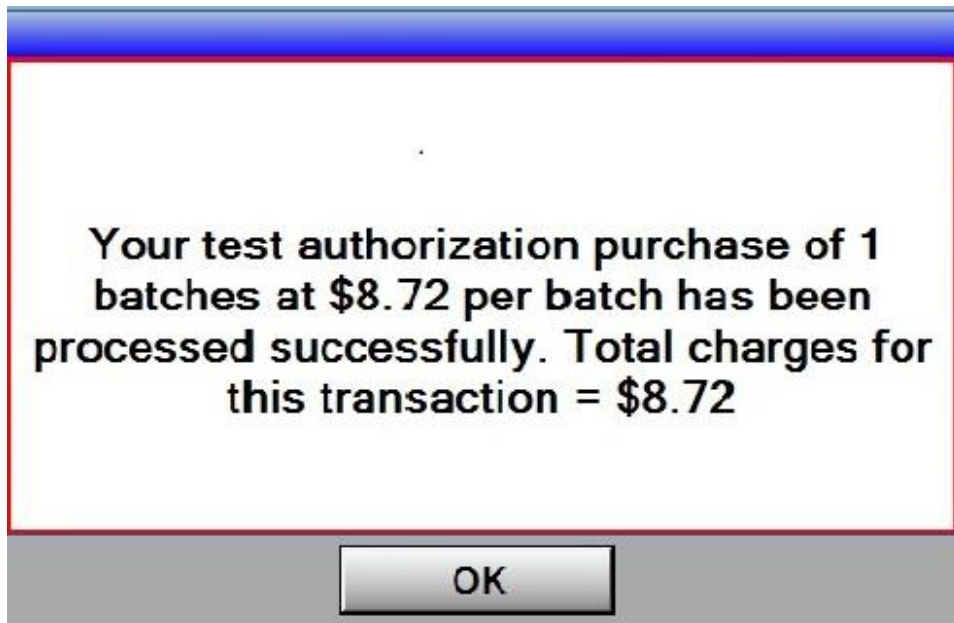
To order more authorizations select the quantity to be ordered from **Number of batch(es):** field.

Select **'Continue.'**

A prompt will display asking to confirm the amount being purchased. Select **'Yes'**.

The screenshot shows a 'Purchase Confirmation' dialog box. The title bar reads 'Purchase Confirmation'. The main text inside the dialog box asks 'Confirm that you wish to purchase 1 batch test authorizations?'. At the bottom of the dialog box, there are two buttons: 'Yes' and 'No'.

The following prompt will display verifying the quantity to be purchased.



After purchasing authorizations a yes or no prompt will be displayed. Select **'Yes'** to print a receipt or **'No'** to return to **2. Inventory Management**.

The Test Authorization quantity purchased will be displayed on the left side of the menu.



The remaining quantity of authorizations can also be verified by selecting **3. Test Authorizations Remaining**.

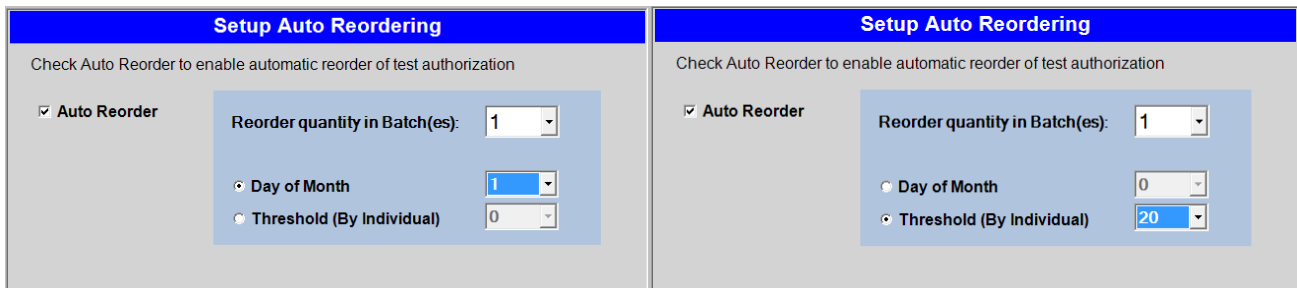


Select **'OK'** to return to **2.Inventory Management**.

### Setup Auto Reordering

There are two options for Auto Reordering test authorizations.

1. **Day of Month** - This option allows the user to select the day of the month to automatically receive the reorder quantity to be added to the analyzer.
2. **Threshold (By Individual)** - This option prevents the analyzer from going below the specified number of test authorizations. Select the reorder quantity of test authorizations to be purchased when the specified threshold has been met they will be loaded to the analyzer.

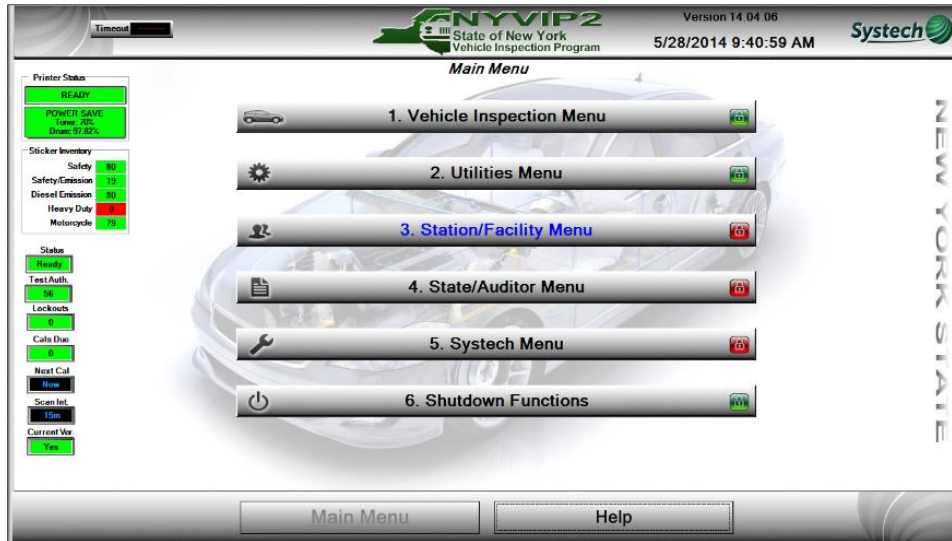


If the test authorizations are not loaded, the analyzer will prompt the user to purchase and/or load the authorizations.



# 11 Sticker Inventory

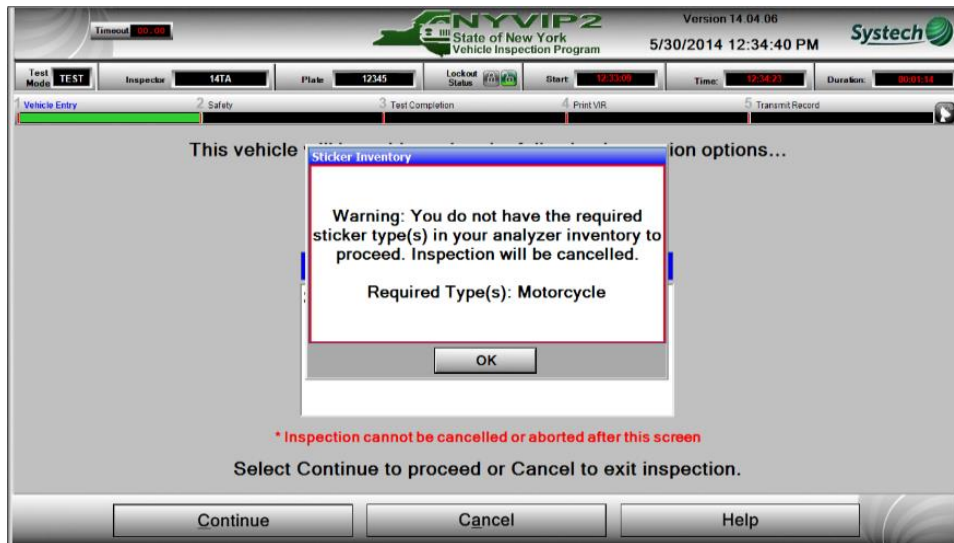
The analyzer must have the appropriate sticker type loaded in inventory to complete an inspection.



Sticker Inventory Status is indicated on the left side of the screen:

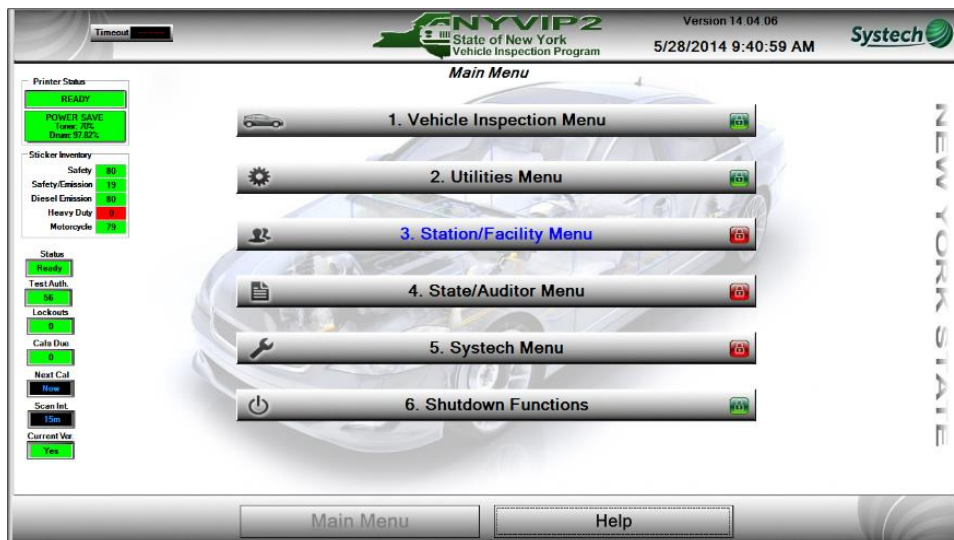
| Sticker Inventory |    |
|-------------------|----|
| Safety            | 80 |
| Safety/Emission   | 18 |
| Diesel Emission   | 80 |
| Heavy Duty        | 0  |
| Motorcycle        | 79 |

If the appropriate sticker is not loaded for the inspection type, the inspection will proceed until the Inspection Type screen which will display the following message and the inspection will be aborted.



### Accessing Add/Remove Sticker Inventory Screen

From the **Main Menu**, select **3. Station/Facility Menu**. Manager access is needed to access this menu.



A login prompt will be displayed. Scan Inspector License or select user name from the menu. Enter Password and select **'Continue.'**

**TEST SYSTECH**

Required Security Level: Manager

**User Authentication Required**

User ID: 14TA

Password: \*\*\*\*\*

| Licenses |         |
|----------|---------|
| LD       | Current |
| HD       | Current |
| MC       | Current |

**Password Entry Required.**

**Valid License(s) Found, Inspection(s) Permitted!**

Select Continue (alt/c) or Enter to proceed

**Continue** **Cancel**

Select **2. Inventory Management**, then **1. Add/Remove Sticker Inventory**.

Version 14.04.06  
5/28/2014 9:44:20 AM

**3. Station/Facility Menu**

- 1. Utilities Menu
- 2. Inventory Management**
- 3. View/Add Registered Inspectors
- 4. Training
- 5. Re-Send Record(s) to VID
- 6. Previous

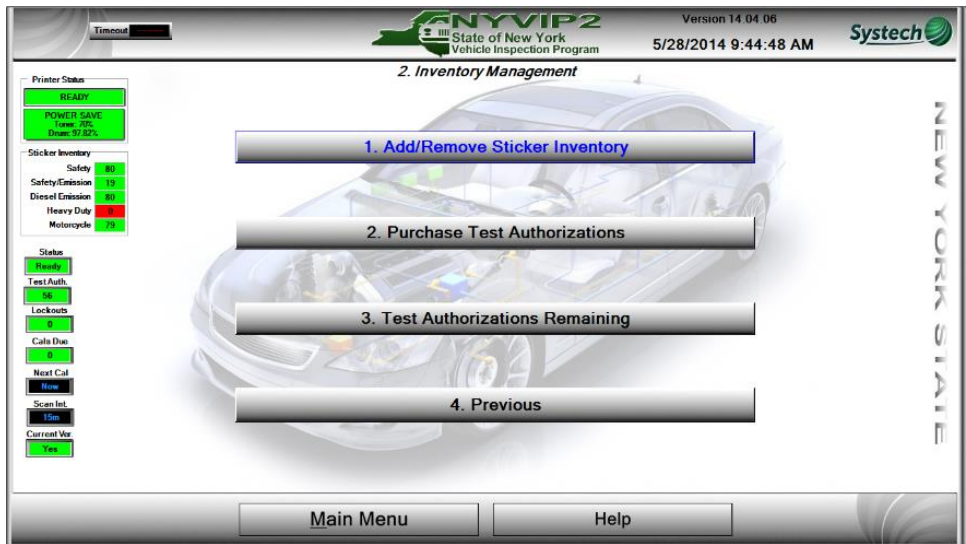
**Printer Status**  
READY  
POWER SAVE  
Time: 75%  
Dram: 97.82%

**Sticker Inventory**

|                 |    |
|-----------------|----|
| Safety          | 80 |
| Safety/Emission | 13 |
| Diesel Emission | 80 |
| Heavy Duty      | 79 |
| Motorcycle      | 79 |

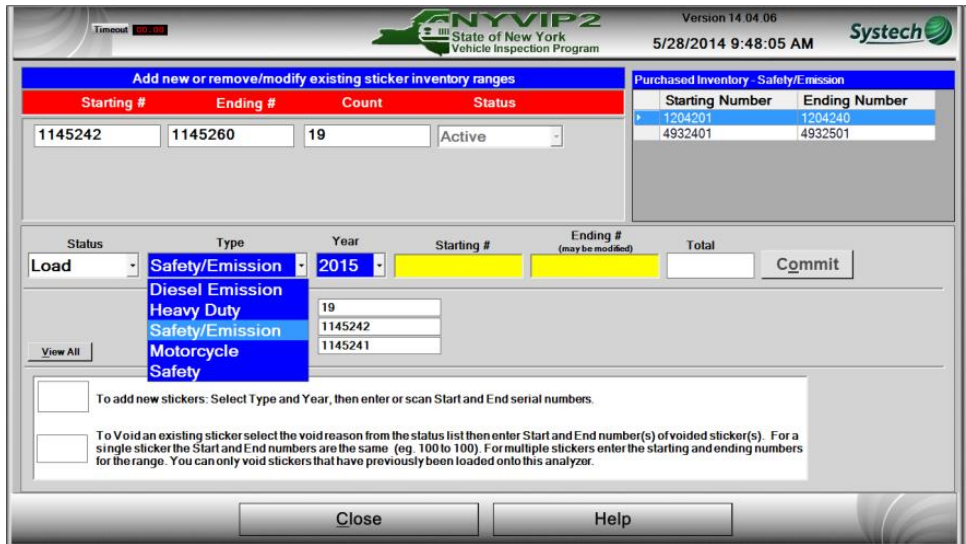
**Station**  
Ready  
Test Auth. 56  
Lockouts 0  
Call Due 0  
Next Call New  
Scan Int. Yes  
Current Ver. Yes

**Main Menu** **Help**

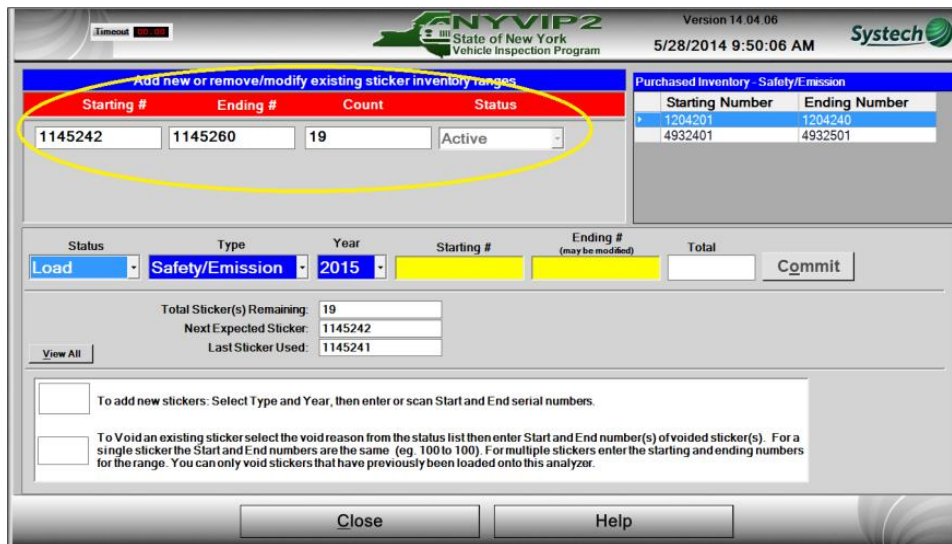


## The Add/Remove Sticker Inventory Screen

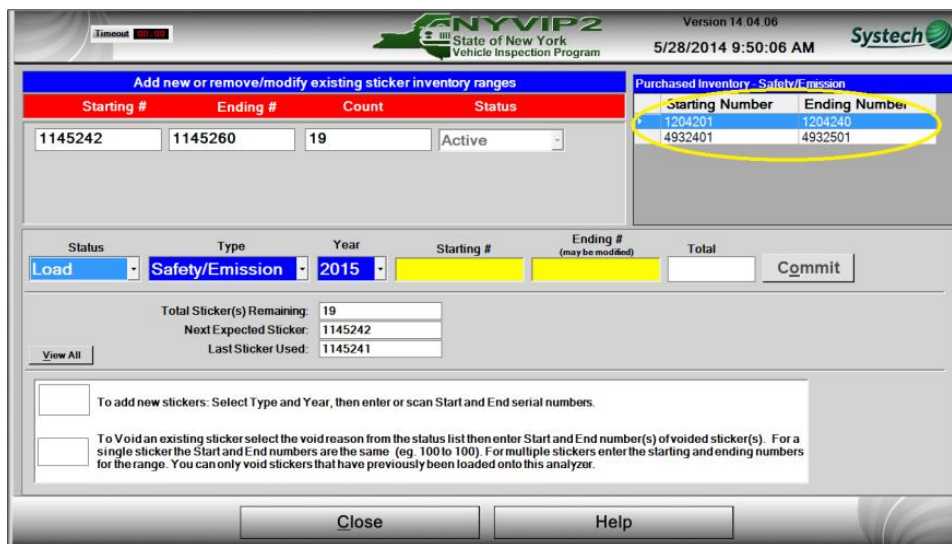
Select the sticker type from the 'Type' menu



On the top left of the screen all active/loaded books will be displayed for the sticker type selected. The status **'Active'** indicates the sticker book that is in use.



On the top right of the screen is Purchased Inventory. This displays the sticker ranges that are available to be loaded per the DMV database.



To view the status of the selected sticker type, select 'View All'

Timeout: 00:00

**NYVIP2**  
State of New York  
Vehicle Inspection Program

Version 14.04.06  
5/28/2014 9:50:06 AM

**Systech**

---

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |

**Purchased Inventory - Safety/Emission**

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

---

Status: **Load** | Type: **Safety/Emission** | Year: **2015** | Starting #:  | Ending #:  (may be modified) | Total:  | **Commit**

Total Sticker(s) Remaining:   
 Next Expected Sticker:   
 Last Sticker Used:

**View All**

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.

To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

**Close**      **Help**

Timeout: 00:00

**NYVIP2**  
State of New York  
Vehicle Inspection Program

Version 14.04.06  
5/28/2014 9:52:23 AM

**Systech**

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**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |

**Purchased Inventory - Safety/Emission**

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

---

Status: **Load** | Type: **Safety/Emission** | Year: **2015** | Starting #:  | Ending #:  (may be modified) | Total:  | **Commit**

Total Sticker(s) Remaining:   
 Next Expected Sticker:   
 Last Sticker Used:

**Hide All**

| Added     | Starting  | Ending    | StockType | Status | Added By |
|-----------|-----------|-----------|-----------|--------|----------|
| 4/24/2014 | 001145242 | 001145260 | Sticker   | Active | 147A     |
| 4/24/2014 | 001145241 | 001145241 | Sticker   | Used   | 147A     |

**Close**      **Help**

## To load stickers

Select 'Load' from the **Status** menu.

The screenshot shows the NYVIP2 software interface. At the top, it displays 'Version 14.04.06' and the date '5/28/2014 9:53:50 AM'. The main window is titled 'Add new or remove/modify existing sticker inventory ranges'. It features a table with columns for 'Starting #', 'Ending #', 'Count', and 'Status'. The first row shows '1145242', '1145260', '19', and 'Active'. To the right, there is a 'Purchased Inventory - Safety/Emission' table with columns for 'Starting Number' and 'Ending Number', showing two rows of data. Below the main table, there are dropdown menus for 'Status' (set to 'Load'), 'Type' (set to 'Safety/Emission'), and 'Year' (set to '2015'). There are also input fields for 'Starting #' and 'Ending #' (with a note '(may be modified)'), and a 'Total' field. A 'Commit' button is visible. Below these fields, there are sections for 'Total Sticker(s) Remaining: 19', 'Next Expected Sticker: 1145242', and 'Last Sticker Used: 1145241'. A 'View All' button is also present. At the bottom, there are 'Close' and 'Help' buttons.

Select the sticker type from the **Type** menu

This screenshot is similar to the previous one, but the 'Type' dropdown menu is open, showing a list of options: 'Safety/Emission', 'Diesel Emission', 'Heavy Duty', 'Motorcycle', and 'Safety'. The 'Safety/Emission' option is currently selected. The rest of the interface, including the 'Status' dropdown (set to 'Load'), the 'Year' dropdown (set to '2015'), and the 'Commit' button, remains the same. The 'Total Sticker(s) Remaining' is still 19, and the 'Next Expected Sticker' is 1145242.

Select the year from the **Year** menu.

Timeout 00:00

Version 14.04.06

5/28/2014 9:55:10 AM

Systemtech

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |

Purchased Inventory - Safety/Emission

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

Status: Load | Type: Safety/Emission | Year: 2015 | Starting #: | Ending #: (may be modified) | Total: | Commit

Total Sticker(s) Remaining: 2016  
 Next Expected Sticker: 1145242  
 Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.

To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help

In the **Starting #** field scan or manually enter the first sticker in the book to be loaded. Verify the sticker range being loaded.

Timeout 00:00

Version 14.04.06

5/28/2014 9:56:19 AM

Systemtech

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |

Purchased Inventory - Safety/Emission

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

Status: Load | Type: Safety/Emission | Year: 2015 | Starting #: 1204201 | Ending #: 1204220 | Total: 20 | Commit

Total Sticker(s) Remaining: 19  
 Next Expected Sticker: 1145242  
 Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.

To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help



Select 'Commit.'

Timeout 00:00

Version 14.04.06

5/28/2014 9:56:19 AM

Systemtech

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |

Purchased Inventory - Safety/Emission

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

Status: Load | Type: Safety/Emission | Year: 2015 | Starting #: 1204201 | Ending #: 1204220 | Total: 20 | **Commit**

Total Sticker(s) Remaining: 19  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.  
 To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help

The following message will be displayed. Select 'Continue.'

**Sticker Inventory**

**Attention!**

You are attempting to load new stickers. If you continue the expected sticker will still be <1145242>

If this is correct select Continue or select Cancel and void the current active row prior to loading the new sticker roll.

**Continue** Cancel

## To Remove/Void Stickers

Select 'Damaged' or 'Stolen' from **Status** menu.

Version 14.04.06  
5/28/2014 9:59:49 AM

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

Status: **Damaged** | Type: **Safety/Emission** | Year: **2015** | Starting #: | Ending #: (may be modified) | Total: | **Commit**

Total Sticker(s) Remaining: 39  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

**Damaged**  
**Stolen**  
**Returned**  
**Surrendered**

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.

To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

**Close** **Help**

Select the sticker type from the **Type** menu.

Version 14.04.06  
5/28/2014 10:00:34 AM

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

| Starting Number | Ending Number |
|-----------------|---------------|
| 1204201         | 1204240       |
| 4932401         | 4932501       |

Status: **Damaged** | Type: **Safety/Emission** | Year: **2015** | Starting #: | Ending #: (may be modified) | Total: | **Commit**

**Diesel Emission**  
**Heavy Duty**  
**Safety/Emission**  
**Motorcycle**  
**Safety**

Total Sticker(s) Remaining: 39  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

**View All**

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.

To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

**Close** **Help**

Select the year from the **Year** menu.

NYVIP2 State of New York Vehicle Inspection Program  
Version 14.04.06  
5/28/2014 10:00:58 AM  
Systech

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

Purchased Inventory - Safety/Emission

| Starting Number | Ending Number |
|-----------------|---------------|
| 4932401         | 4932501       |

Status: Damaged | Type: Safety/Emission | Year: 2015 | Starting #: | Ending #: | Total: | Commit

Total Sticker(s) Remaining: 2016  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.  
 To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help

In the **Starting #** field scan or manually enter the first sticker in the range to be voided.

NYVIP2 State of New York Vehicle Inspection Program  
Version 14.04.06  
5/28/2014 10:03:32 AM  
Systech

**Add new or remove/modify existing sticker inventory ranges**

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

Purchased Inventory - Safety/Emission

| Starting Number | Ending Number |
|-----------------|---------------|
| 4932401         | 4932501       |

Status: Damaged | Type: Safety/Emission | Year: 2015 | Starting #: 1145242 | Ending #: 1145242 | Total: 1 | Commit

Total Sticker(s) Remaining: 39  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.  
 To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg. 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help

In the **Ending #** field scan or manually enter the last sticker of the range to be voided. Verify the sticker range being voided.

NYVIP2 State of New York Vehicle Inspection Program Version 14.04.06 5/28/2014 10:04:12 AM Systech

Timeout 00:30

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

| Starting Number | Ending Number |
|-----------------|---------------|
| 4932401         | 4932501       |

Status: Damaged Type: Safety/Emission Year: 2015 Starting #: 1145242 Ending #: 1145244 Total: 3 Commit

Total Sticker(s) Remaining: 39  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.  
 To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

Close Help

Select **'Commit'**

NYVIP2 State of New York Vehicle Inspection Program Version 14.04.06 5/28/2014 10:04:12 AM Systech

Timeout 00:30

| Starting # | Ending # | Count | Status |
|------------|----------|-------|--------|
| 1145242    | 1145260  | 19    | Active |
| 1204201    | 1204220  | 20    | Load   |

| Starting Number | Ending Number |
|-----------------|---------------|
| 4932401         | 4932501       |

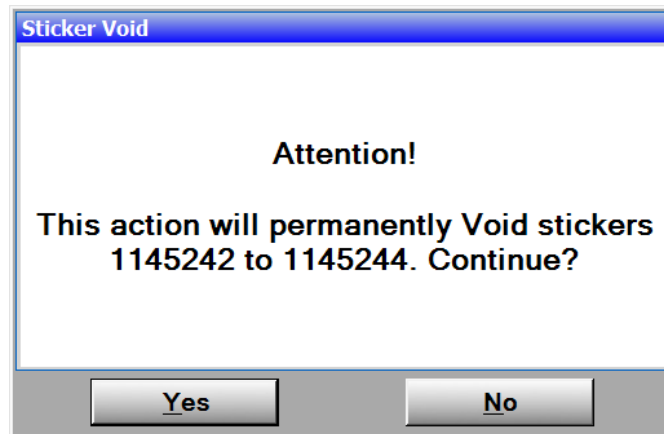
Status: Damaged Type: Safety/Emission Year: 2015 Starting #: 1145242 Ending #: 1145244 Total: 3 Commit

Total Sticker(s) Remaining: 39  
Next Expected Sticker: 1145242  
Last Sticker Used: 1145241

To add new stickers: Select Type and Year, then enter or scan Start and End serial numbers.  
 To Void an existing sticker select the void reason from the status list then enter Start and End number(s) of voided sticker(s). For a single sticker the Start and End numbers are the same (eg 100 to 100). For multiple stickers enter the starting and ending numbers for the range. You can only void stickers that have previously been loaded onto this analyzer.

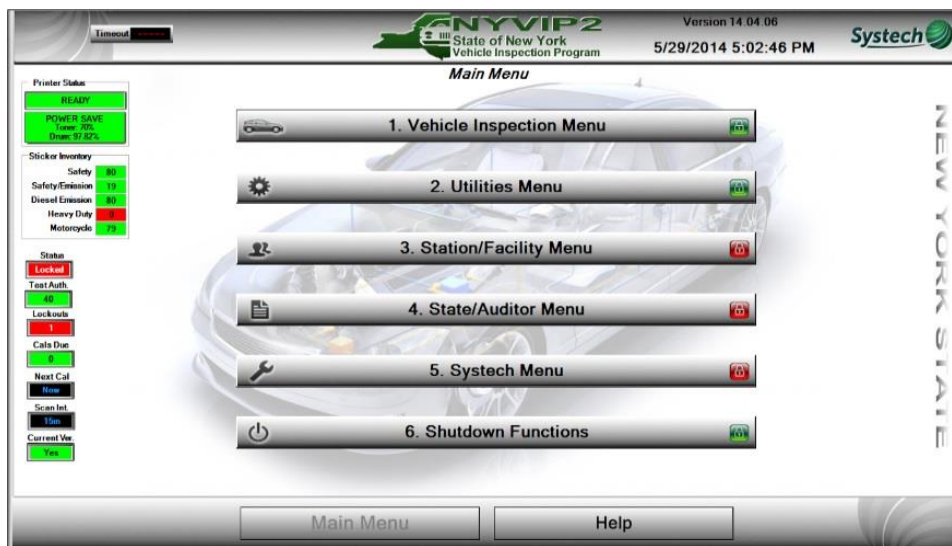
Close Help

The following message will be displayed. Select 'Yes' to void the entered sticker range.

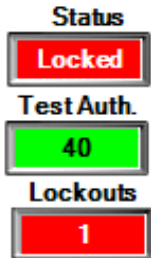


## 12 Lockouts

For the Vehicle Inspection process, all lockouts must be cleared.

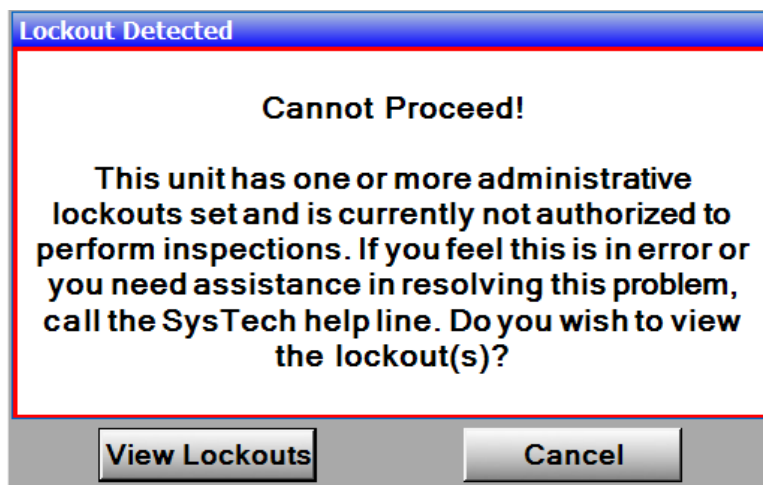


Lockout Status is indicated on the left side of the screen.



### Lockout Status Display

After login the following message will be displayed if there are any lockouts preventing an inspection from starting.



To view lockouts select 'View Lockouts'

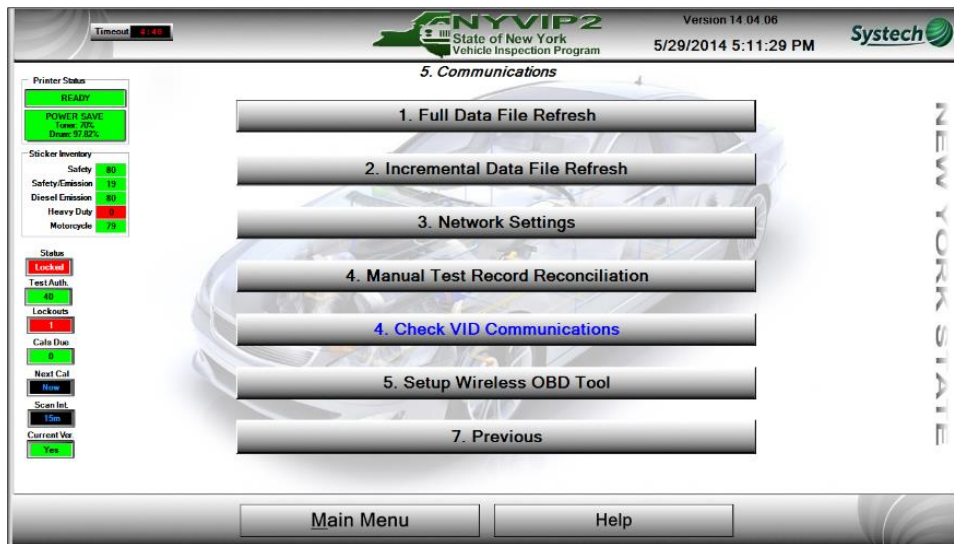


To view active lockouts from the **Main Menu** select **2. Utilities, 2. View lockouts.**

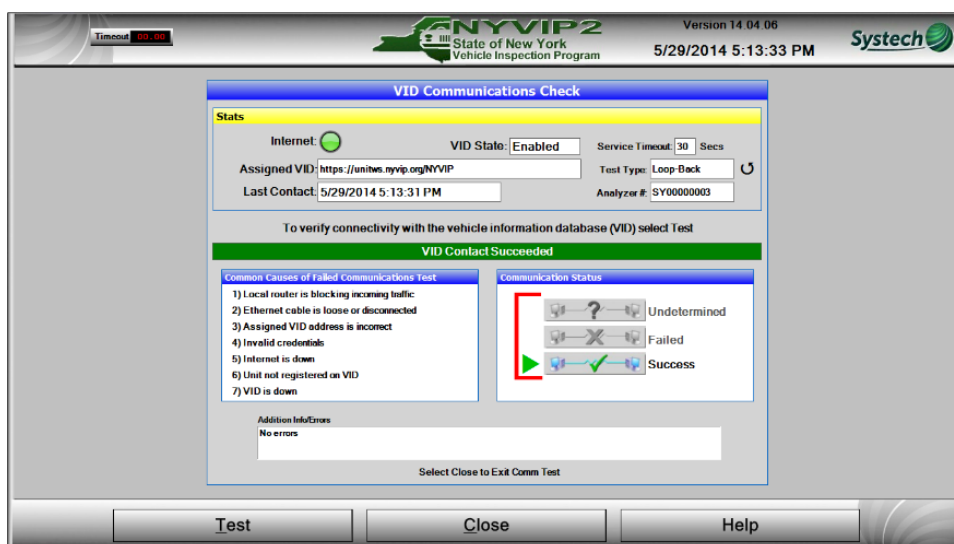
There is a list of lockouts on the bottom left. The active lockout will be highlighted in **RED** After viewing the lockouts, the inspection will be aborted. All lockouts displayed must be cleared in order to begin the inspection process again.

**Administrative Lockout for No Contact** – occurs when a station has two offline inspections that have not been transmitted to the VID.

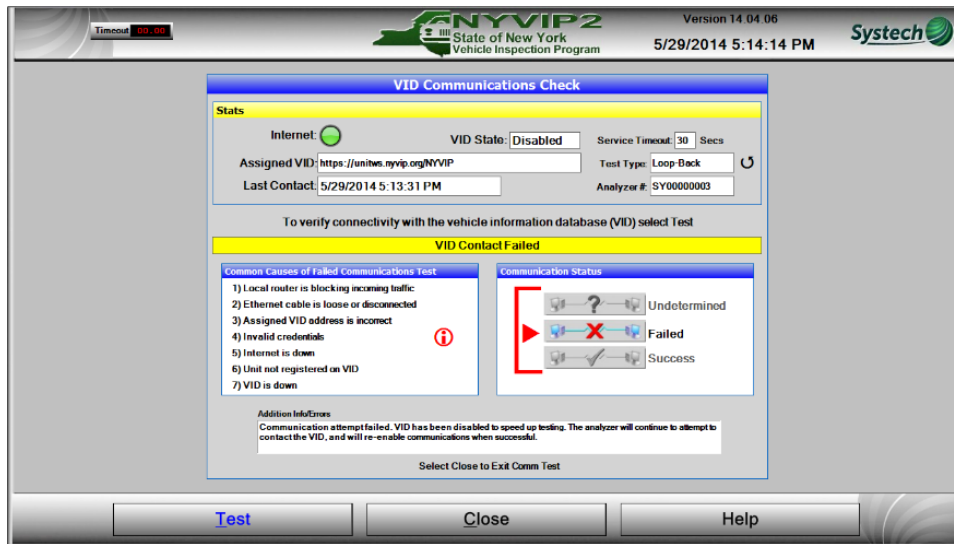
Verify a successful communication by selecting **2. Utilities, 5. Communications, 4. Check VID Communications**



Select **'Test'** at the bottom of the page. This function will check to see if VID communications is successful. After the test is completed a message will display whether the communication fails or is successful.



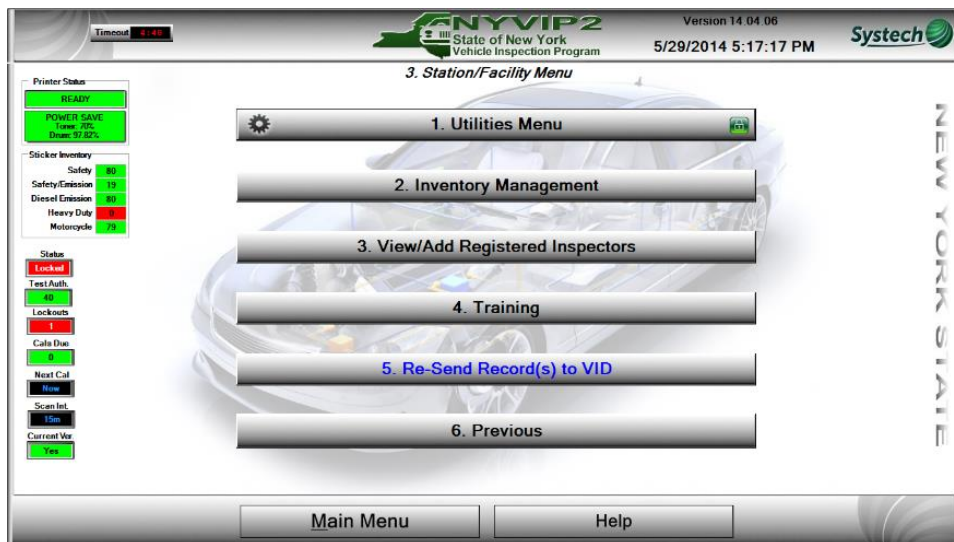
If unsuccessful, troubleshoot for communication issues.



Once communication is successful any untransmitted inspection records must be sent to the VID.

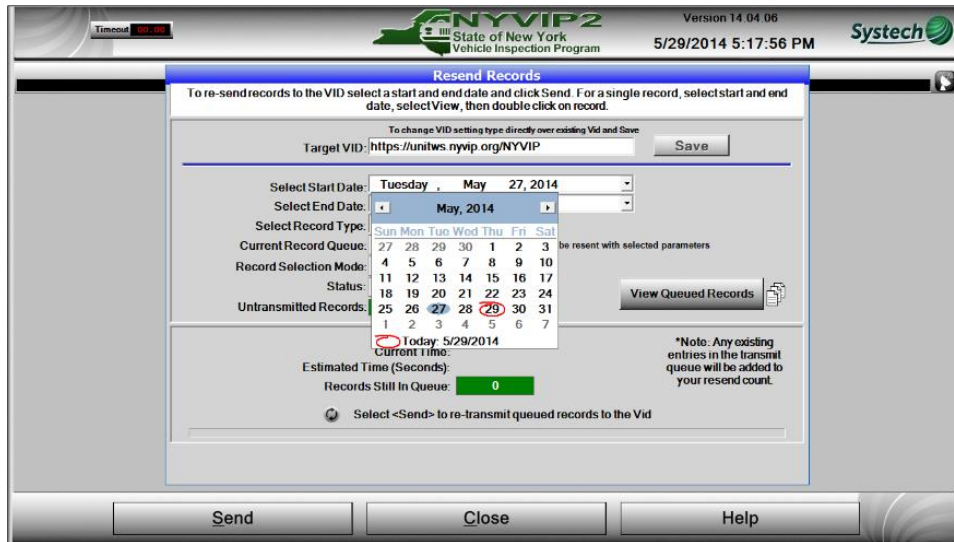
### Re-send records to VID

Select **3. Station/Facility Menu**, scan Inspector License and enter password, then select **5. Re-Send Records to VID**





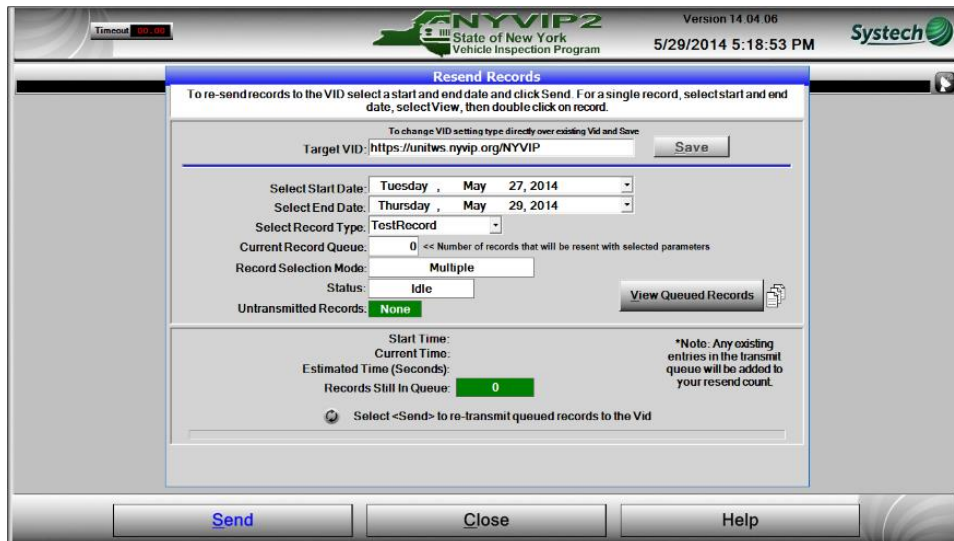
Change the starting date to the day before the first untransmitted inspection was performed by selecting the date in the **Select Start Date** field.



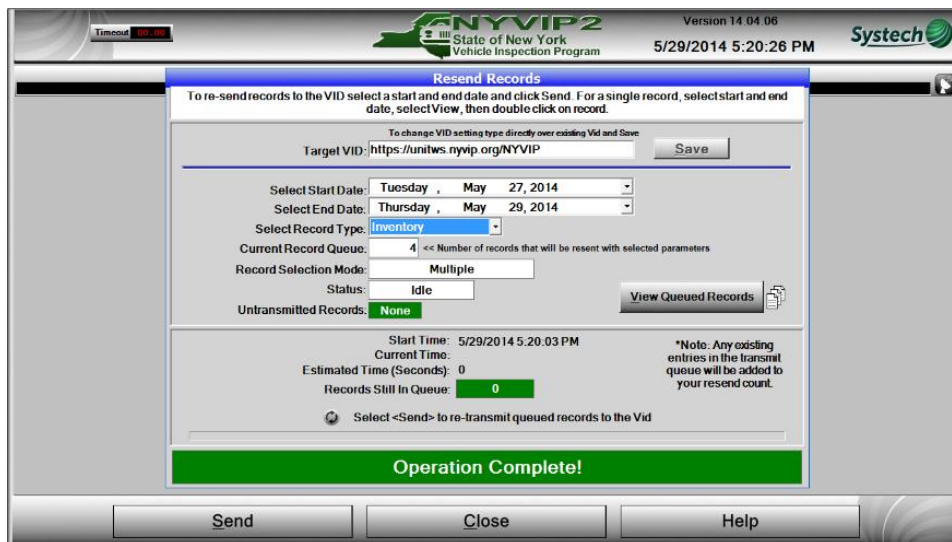
Change the ending date to when last inspection was performed by selecting the date in **Select End Date** field.

**NOTE: This is especially important for stations on dial up.**

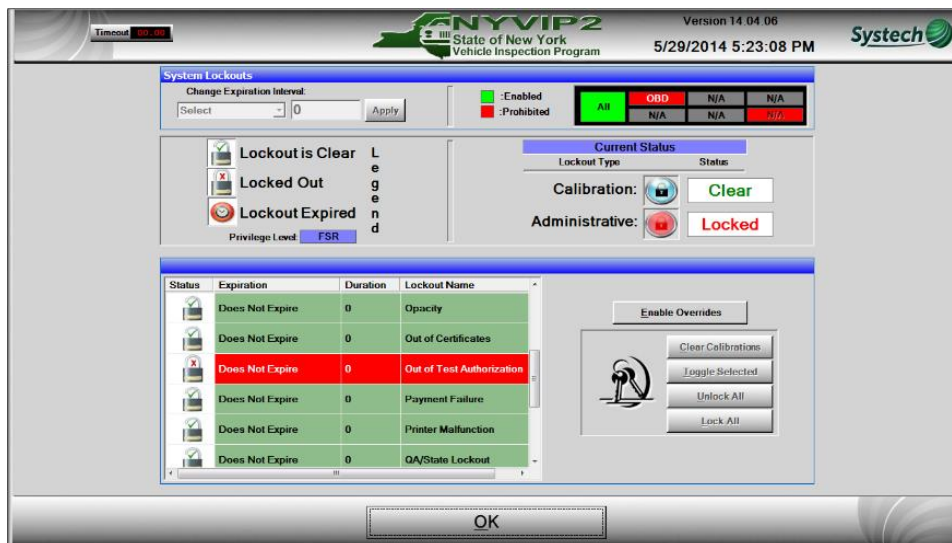
Select **'Send'**. This may take some time on dial up.



Once the operation is complete initiate an inspection to clear the lockout.



**Administrative Lockout for Test Authorizations** – occurs when there are no Test Authorizations in station inventory



To purchase Test Authorizations go to [www.NYVIP.org](http://www.NYVIP.org) or purchase from Inventory Management on the analyzer (see **Section 10 Test Authorizations**)

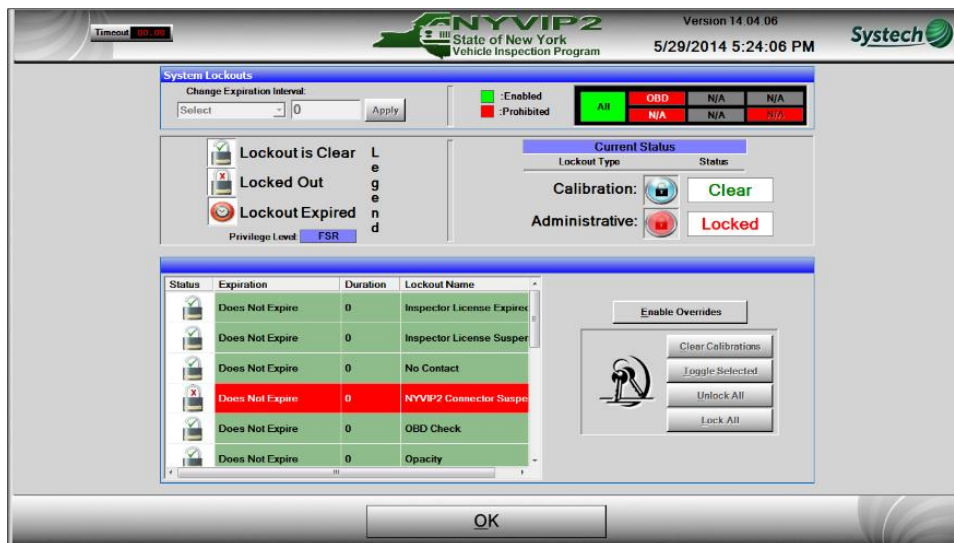
Once purchase is complete, perform a full data file refresh.

Initiate an inspection to clear the lockout.

**Administrative Lockout for State Messages** – occurs when there are unread state messages.

Initiate an inspection. If there are any unread state messages they will be displayed after the refresh. Select Continue to view messages. All state messages need to be read to clear the lockout.

**DLC Lockout/NYVIP2 Connector Suspension Lockout**– occurs when the OBDII is not able to communicate.

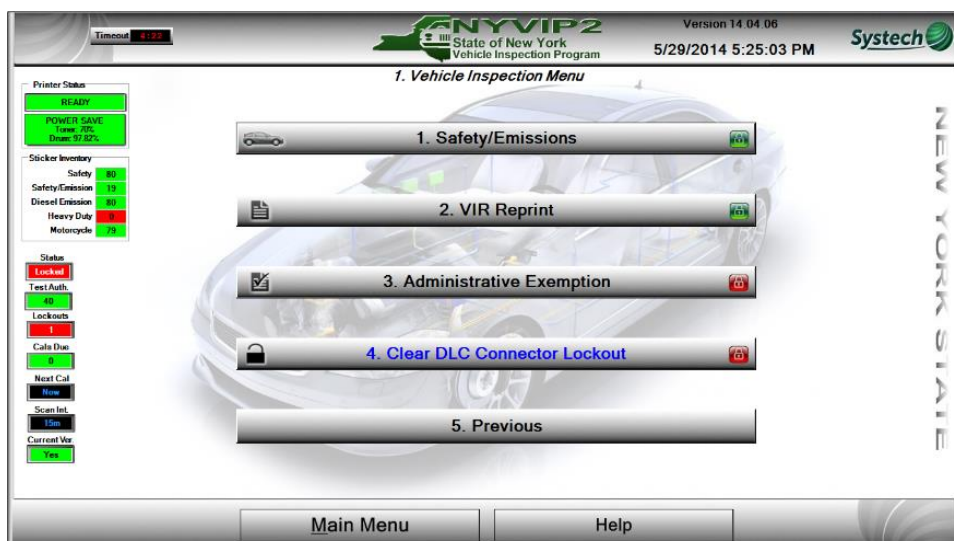


From the **Main Menu** select **1. Vehicle Inspection Menu**, **4. Clear DLC connector lockout**

Scan an Inspector License and enter password.

A vehicle must be able to communicate with the OBD to clear this lockout.

Connect OBDII to vehicle and start the vehicle.



Select 'Test'

When the lockout is cleared the status will change to 'Clear.'



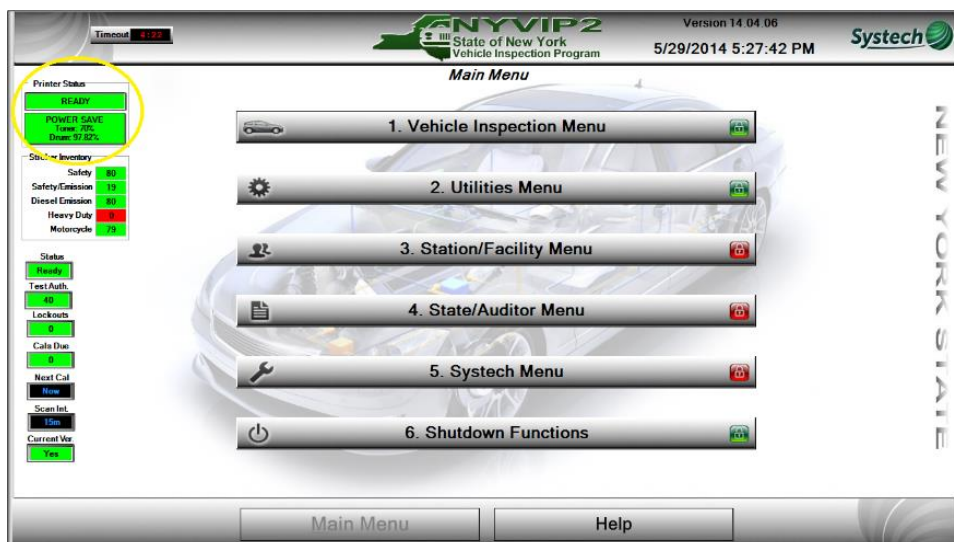
If communication fails please contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**.

For all other lockouts please contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**.

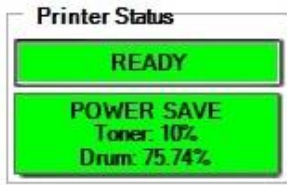
# 13 Printer Status

To complete a vehicle inspection the printer status must be ready.

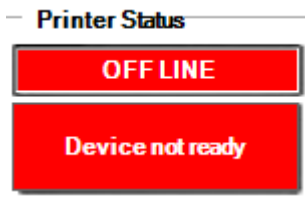
Printer Status is indicated on the top left side of the screen:



If the Printer Status is **Green**, the printer is ready to print.

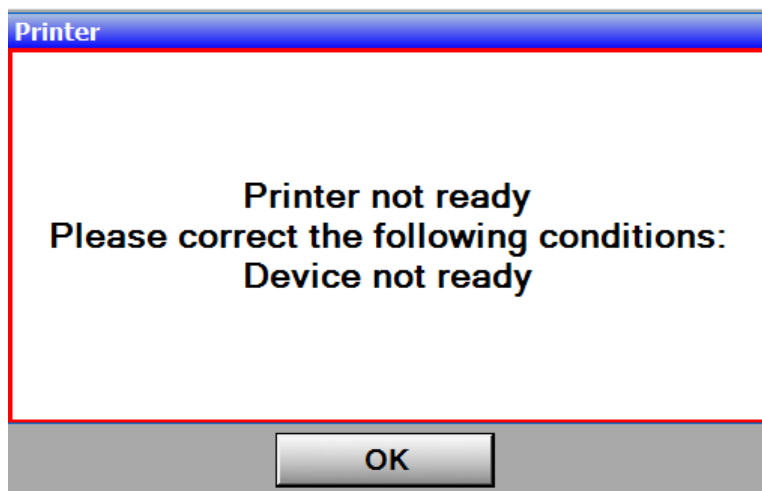


If the Printer Status is **Red**, the printer is not ready to print. The lower half of the box will indicate the issue.



### Printer Lockout

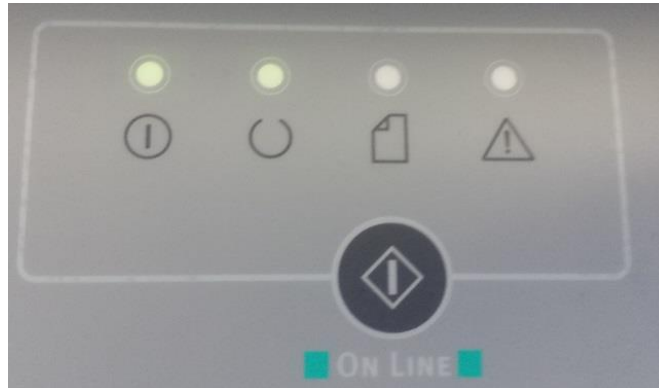
If an inspection is initiated and the printer is locked out the following message will be displayed and the inspection will be aborted.



## Setting Printer Status to Ready

When the printer is ready and online it should have two green lights illuminated on the top of the printer. The first light indicates power, the second shows that the printer is online.

The next two lights are error lights. If either of these is on, the printer is not ready and will cause a printer lockout.



If the printer is offline/not ready:

- ◆ Press the online button on the top of the printer.

If the printer is still offline/not ready:

- ◆ Verify that the printer USB cable is properly connected to the printer and the computer.
- ◆ Verify that the power cord is properly connected to the printer and the power strip.
- ◆ Verify that the printer power switch that is located on the left panel of the printer is on.
- ◆ Verify that the correct model of printer is selected as the default printer( OKIB4400).

From the **Main Menu** select:

- ◆ **2. Utilities**
- ◆ **3. Configuration**
- ◆ **3. Printer Selection**
- ◆ Confirm that the OKIB4400 is highlighted in both the Default and VIR Printer Fields. If they are not, highlight both and select **'Save'**

If the printer is offline/not ready: Contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

# 14 Toner Replacement

## Order Details

Toner Cartridges and Paper can be purchased on the Opus website at [www.NYVIP.org](http://www.NYVIP.org) or by contacting Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

Series: Okidata B4400/B4500/B4600 Toner Cartridge

P/N # 43502301

## When to Replace Toner Cartridge

Replace the toner cartridge after the Toner percentage indicator displays a percentage of 10 percent. This indicator is displayed on the left hand side of the Main Menu. The printer also has an LED error indicator that will begin flashing orange when the toner level is low. The printer will print approximately 100 more pages before the printer stops printing. A standard toner cartridge will print an average of 3,000 pages. This is only an average: actual results may vary.

## Replacing Toner Cartridge

- ◆ Remove the old toner cartridge from the printer by pulling the blue toner release lever located on the cartridge towards the front of the printer. Then lift the right-hand end of the cartridge and draw the cartridge to the right to release the left-hand end and withdraw from the printer.
- ◆ Dispose of the old toner cartridge in the plastic bag that came with the new cartridge. Please see the consumables return policy for further details.
- ◆ Gently shake the new cartridge from side to side several times to loosen and distribute the toner evenly inside.
- ◆ Remove the wrapping material and peel off the adhesive tape from the underside of the cartridge.
- ◆ Hold the new cartridge by its top center with the blue lever to the right and lower the cartridge into the printer over the image drum unit from which the old cartridge was removed. Insert the left end of the toner cartridge into the top of the image drum unit pushing it against the spring on the drum unit, then lower the right end of the cartridge down onto the image drum unit.
- ◆ Push the blue lever towards the rear of the printer, this will lock the cartridge into place and release toner into the image drum unit.

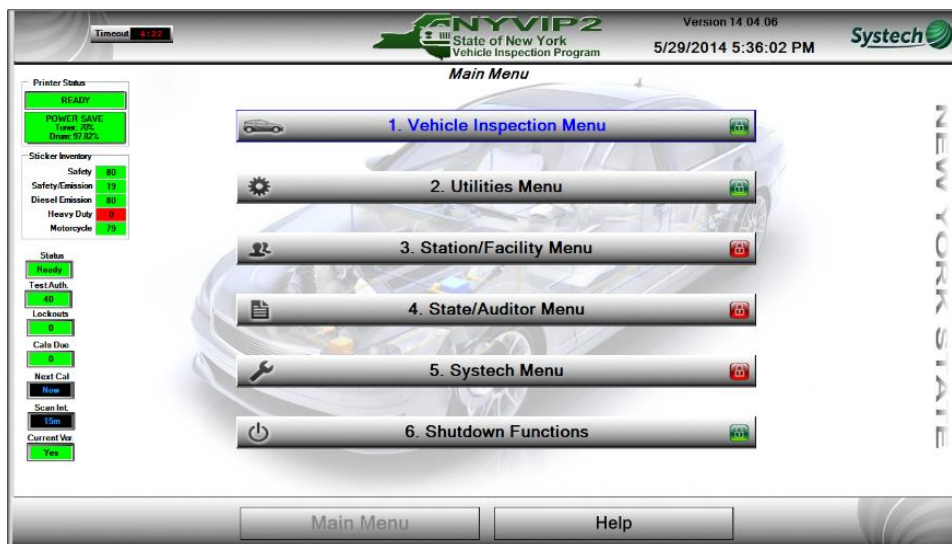
# 15 Pre-Inspection Procedure

Ask the customer for their registration and any prior inspection receipts (VIR) for inspections performed in the last 30 days, then have the customer proceed to the waiting area.

- ◆ Bring the vehicle into the inspection area.
- ◆ Place the vehicle in Park (automatic transmissions) or Neutral (manual transmissions).
- ◆ Secure the parking brake.
- ◆ Turn off all accessories (radio/stereo, lights, air conditioning, heating, etc.).
- ◆ Return to the analyzer and proceed with inspection.

# 16 Vehicle Inspection Menu

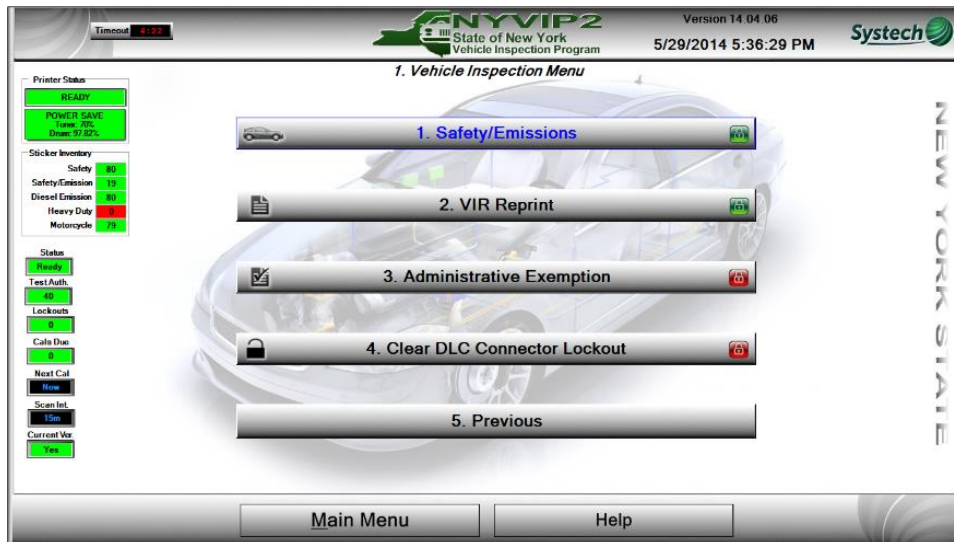
From the **Main Menu**, select **1. Vehicle Inspection Menu**.





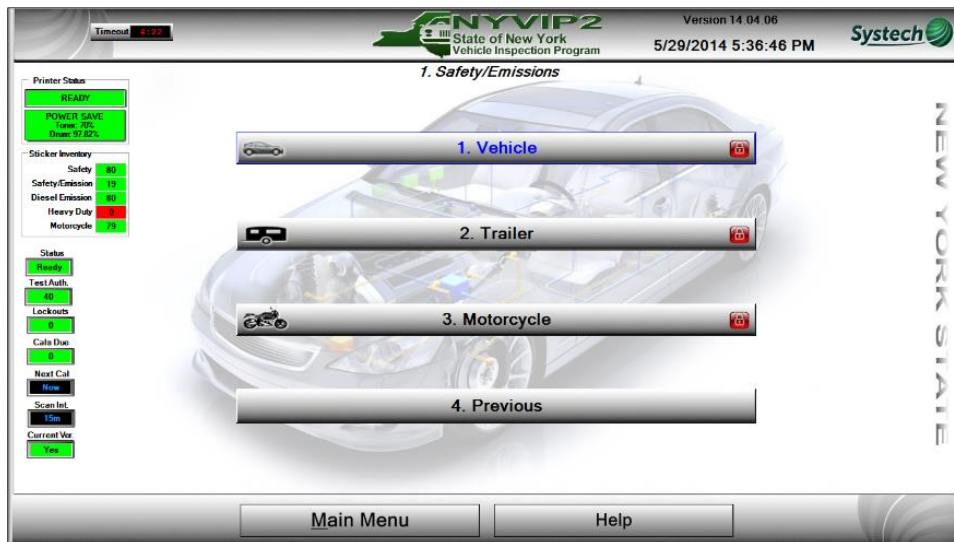
# 16-1 Safety/Emissions

From 1. Vehicle Inspection Menu, select 1. Safety/Emissions



## Vehicle

Select an Inspection Type to begin.



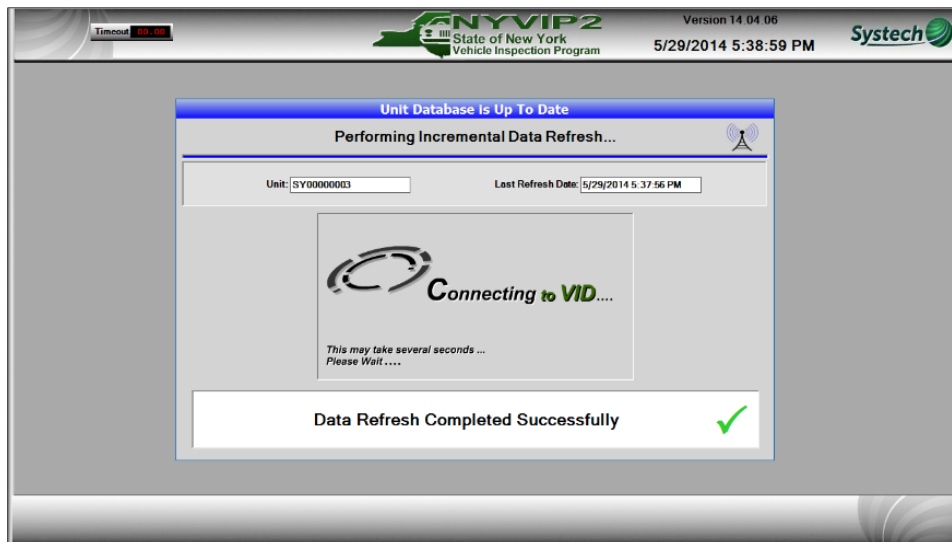
## Logging In

Select **1.Vehicle**. The inspector will be prompted to first login via a barcode scan of the Inspector License and then to enter their password. Follow the instructions as indicated in **Section 6 Secure Login**

The screenshot shows a dialog box titled "TEST SYSTECH". At the top, it says "Required Security Level: Inspector". Below this, there is a section for "User Authentication Required" which includes a green padlock icon, a dropdown menu for "Inspector #" with the value "14TA", and a password field with "\*\*\*\*\*". To the right, under the heading "Licenses", there are three entries: "LD Current", "HD Current", and "MC Current", each with a green bar. A red message "Password Entry Required." is displayed below the password field. A green bar at the bottom of the authentication section says "Enter Password to Proceed". Below that, a blue bar says "Valid License(s) Found, Inspection(s) Permitted!". At the bottom, there is a prompt "Select Continue (alt/c) or Enter to proceed" and two buttons: "Continue" and "Cancel".

## Network Communication

Once logged in, the analyzer will attempt to communicate with the VID. Any applicable data updates will be transmitted to the analyzer.



## Lockout Status Display

Upon contact with the VID, the analyzer will advise of any lockouts. Any lockouts need to be cleared before performing an inspection. Refer to **Section 12 Lockouts**.

## Vehicle Data Entry Procedure



Vehicle identification determines the inspection(s) that the vehicle will receive. Vehicle identification data is collected based on information you enter through the analyzer and data retrieved from the VID. Always check to make sure the vehicle data is accurate, verifying that the information on the registration, vehicle, and analyzer is the same.

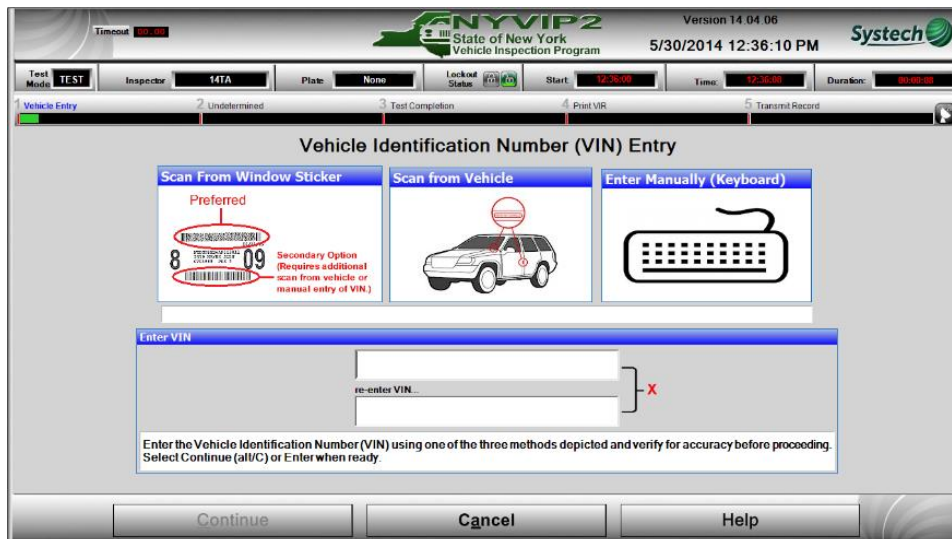
### Vehicle Identification Number (VIN) entry

The VIN can be entered using one of two methods:

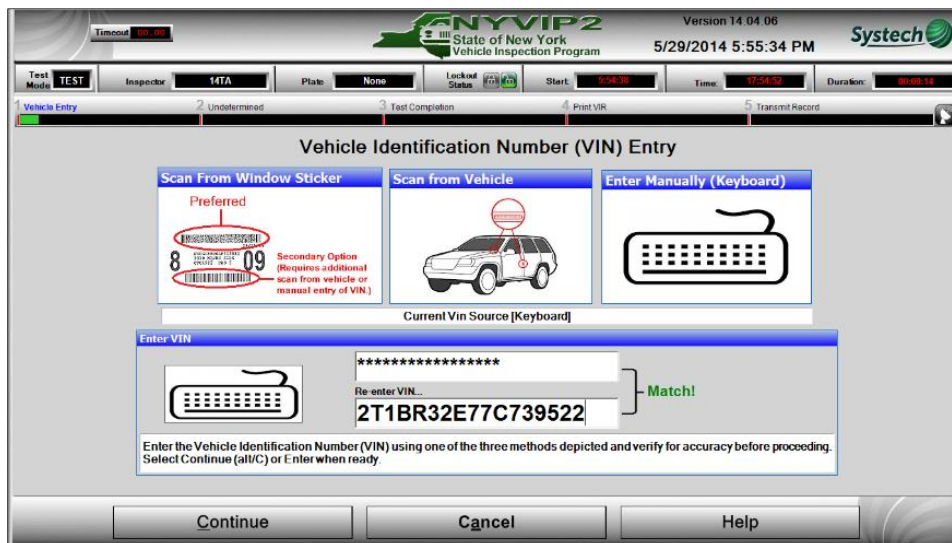
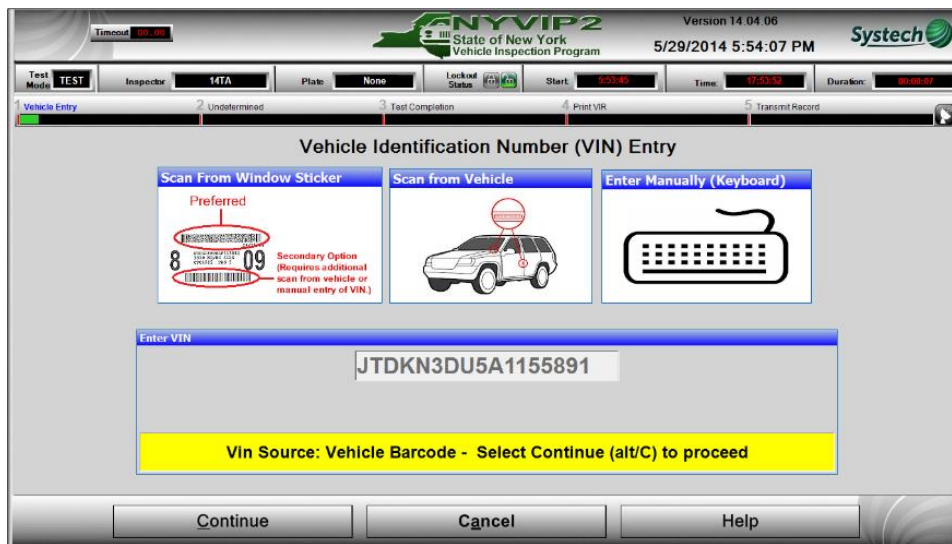
- ◆ Barcode scanner
- ◆ Manual keyboard entry

The preferred entry method of the Barcode is the 2D sticker from the windshield.

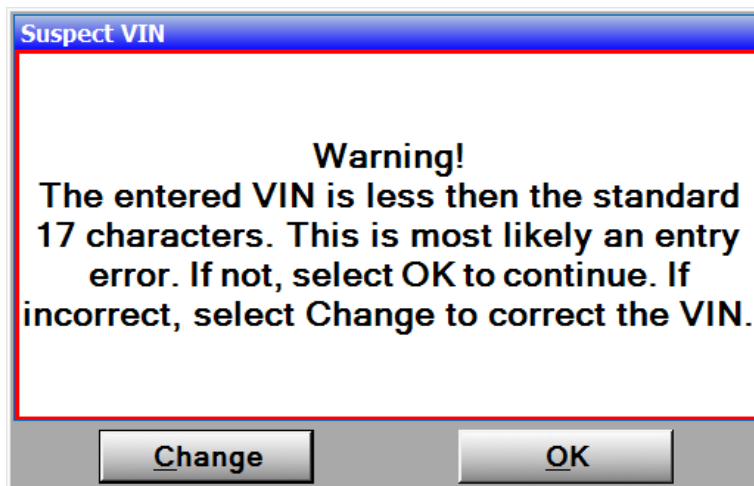
If the secondary option of the 1D barcode is scanned, the VIN will need to be scanned from the door, window or entered manually.



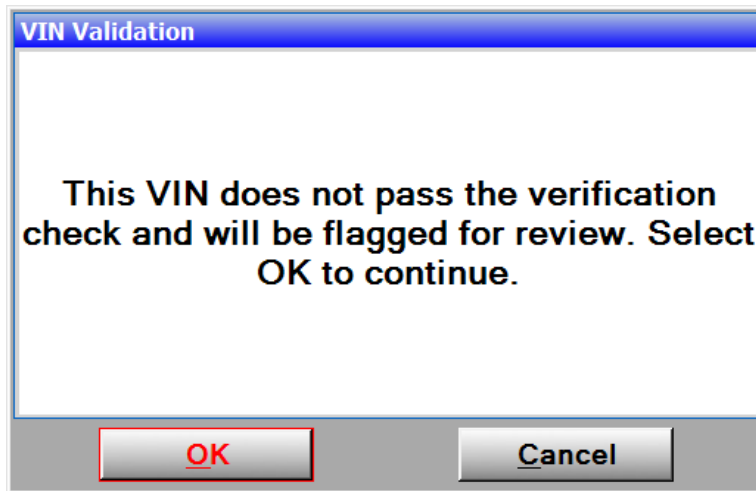
Scan the VIN then select **'Continue'** and proceed to the Vehicle Selection screen, or manually enter the VIN using the keyboard. The VIN will need to be entered twice to confirm it was entered correctly.



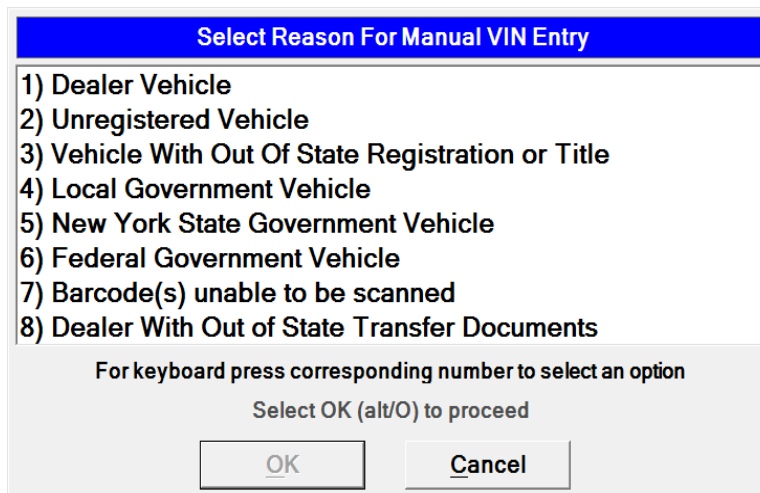
If the VIN has less than 17 characters, the screen will display a warning. If the VIN is correct, select 'OK' and proceed.



If the VIN that is entered does not pass verification, the screen will display a warning. If the VIN is correct, select **'OK'** to proceed.



If the VIN is manually entered, the user must select a reason for the manual entry. Select **'OK'**.

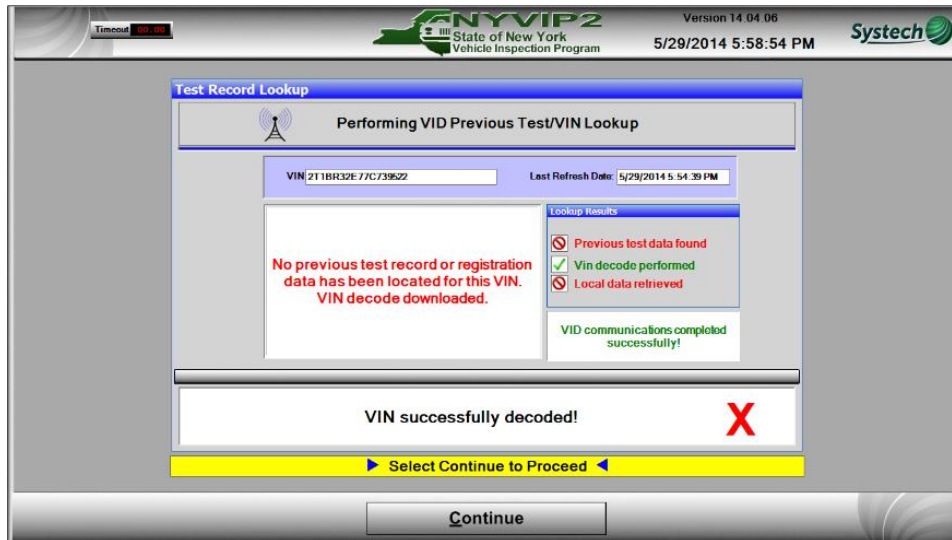


After VIN entry, select **'Continue'** to proceed to the next screen.

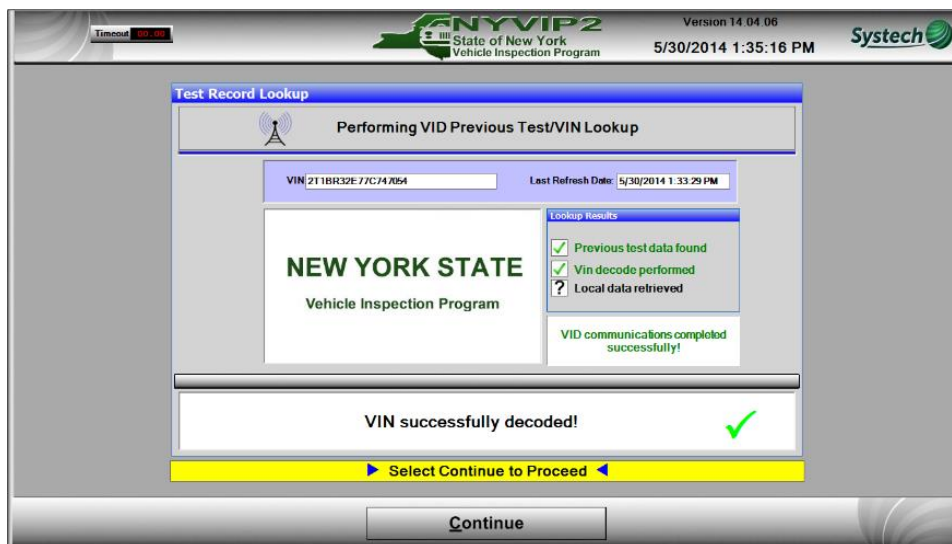
## VID communication and vehicle data lookup

Once the VIN is entered, the analyzer will request additional vehicle information from the VID. When the search is complete, the analyzer will display the outcome.

If the vehicle information from a previous inspection is not found, the screen will display a message indicating this.



If vehicle information from a previous inspection is found the screen will indicate so.



Select 'Continue' to proceed through more data collection screens. Some entry items will not be needed if the vehicle was previously inspected.

Timeout 00:00

Version 14 04 06

State of New York  
Vehicle Inspection Program

5/29/2014 6:00:09 PM

Systech

Vehicle Entry | Undetermined | Test Completion | Print VTR | Transmit Record

**Enter Plate (if available)**

IF AVAILABLE, A LICENSE PLATE MUST BE PROVIDED!

Plate: 123ASD

NO PLATE

Dealer Vehicle

VIN successfully decoded.

**Select Testing Parameters**

Model Year: 2007

Vehicle Type: Passenger Car

Weight Code: 1) 0 - 8500 lbs

NYMA?: No

**Primary Fuel**

Gasoline

Diesel

Propane

Flex Fuel

CNG

Electric

None

For keyboard select alt/C to continue or alt/A to cancel.

**Select Manufacturer**

Saturn

Scion

Subaru

Suzuki

Toyota

Other Make (optional)

**Select Model**

4Runner

Avalon

Camry

Camry Hybrid

Camry Solara

Corolla

FJ Cruiser

Other Model (optional)

Continue Cancel Previous Help

## Vehicle Information

If the vehicle information decodes, most of the fields will be pre-populated.

If not, manually enter the information.

First, if available, manually enter a Plate, or select **'NO PLATE'**. If the vehicle has a dealer plate, select **'Dealer Vehicle'**

Timeout 00:00

Version 14 04 06

State of New York  
Vehicle Inspection Program

5/30/2014 12:39:05 PM

Systech

Vehicle Entry | Undetermined | Test Completion | Print VTR | Transmit Record

**Enter Plate (if available)**

IF AVAILABLE, A LICENSE PLATE MUST BE PROVIDED!

Plate:

NO PLATE

Dealer Vehicle

**VIN failed to decode, you must select the correct Year, Type, Weight Class, Fuel, Make and Model before proceeding.**

**Select Testing Parameters**

Model Year: Select

Vehicle Type: Passenger Car

Weight Code: 1) 0 - 8500 lbs

NYMA?: Select

**Primary Fuel**

Gasoline

Diesel

Propane

Flex Fuel

CNG

Electric

None

For keyboard select alt/C to continue or alt/A to cancel.

**Select Manufacturer**

Other Make (optional)

**Select Model**

Other Model (optional)

Continue Cancel Previous Help

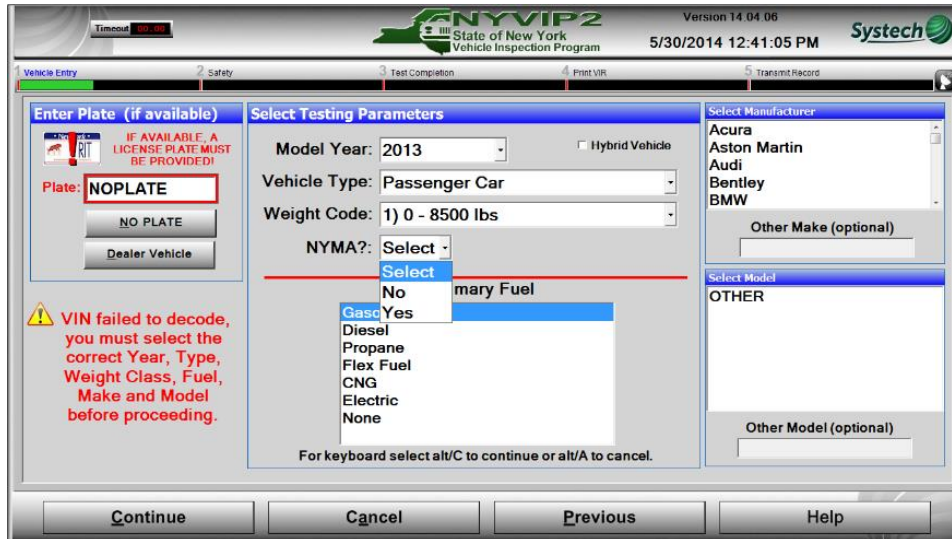
Select the **Model Year**. The **Manufacturers** and **Models** available for the year selected will be displayed.



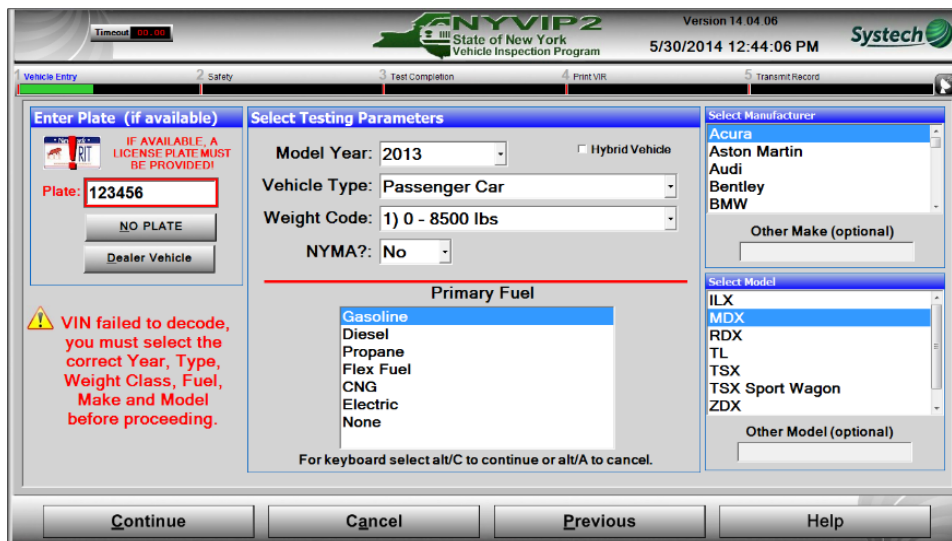
Note: Every time you change the year, the selection of makes and models will change. This is also true for the Vehicle Type selection and Primary Fuel selection.

Select Vehicle Type from drop down list, 'Passenger Car' will be the default value displayed.

Select if the station is NYMA (New York Metropolitan Area) or not. Pick 'No' for Non-NYMA area or 'Yes' for NYMA.



Select the **Primary Fuel** type from displayed values. The highlighted value will determine the fuel selected. 'Gasoline' will be the default value until a different value is chosen.



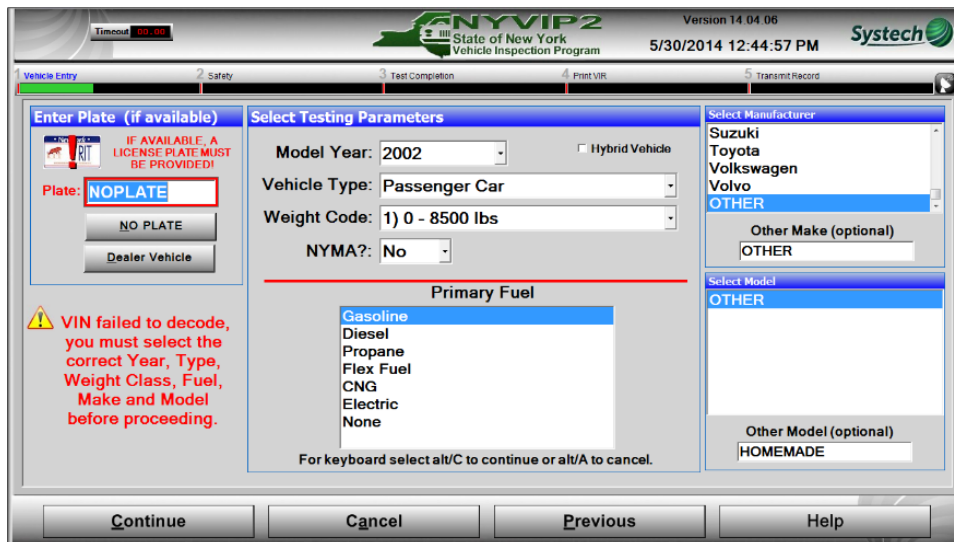
Select the **Manufacturer** and the **Model**.

The screen displays only the vehicle Manufacturers and Models available for the selected model year. If the vehicle's manufacturer is not included in the list, select 'Other' from the bottom of the list. Use the keyboard to enter the vehicle make in the text box labeled 'Other Make'. Or, if the vehicle's model is not included in the list, select 'Other' from the list then use the keyboard to enter the model name in the



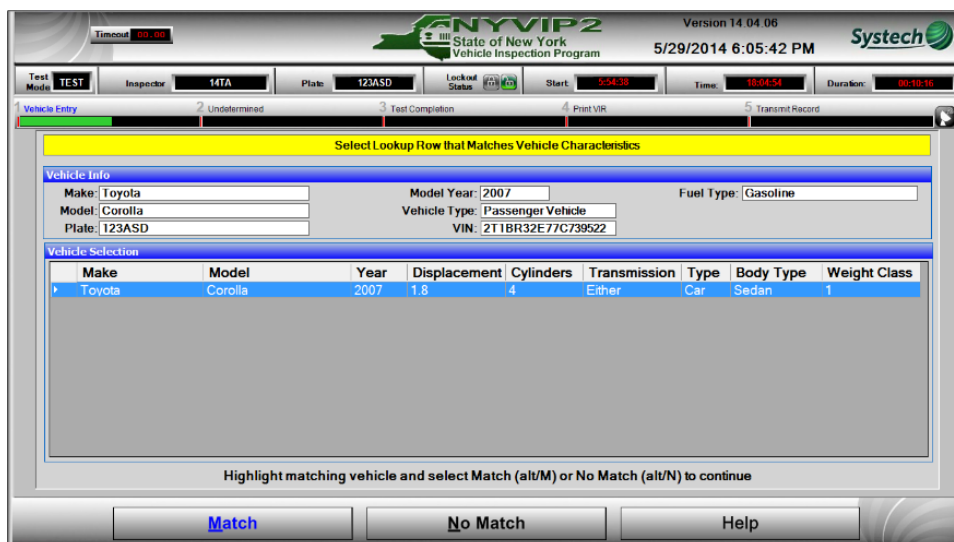
text box labeled 'Other Model'. If you are entering data manually, be sure to double-check the spelling of vehicle make and model.

Please note that the typed value will not display on the VIR, the value displayed will be 'Other'

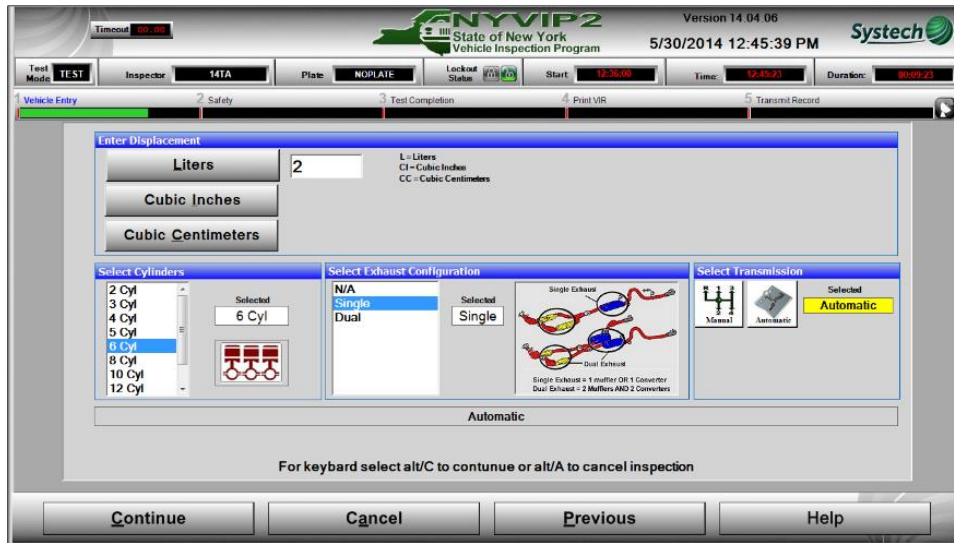


### Vehicle Lookup Table Match Selection

Based on the previous entries, the analyzer displays potential matches from a database of known vehicle configurations (the vehicle lookup table or VLT). Select the matching row from the list, and then select 'Match' to proceed. If none of the rows display a match, select 'No Match' to proceed with manual entries.



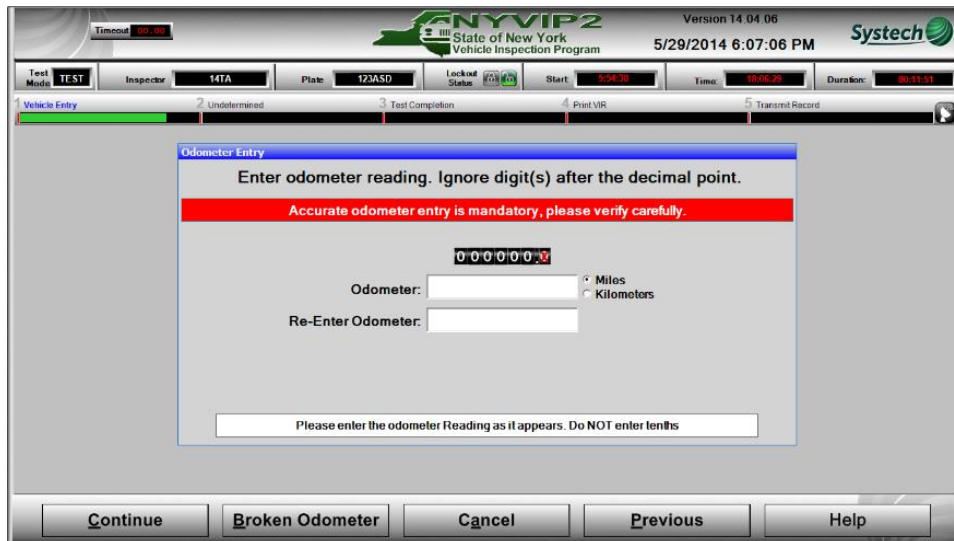
If **'No Match'** was selected, then a second vehicle entry screen will display to collect more information on the vehicle.



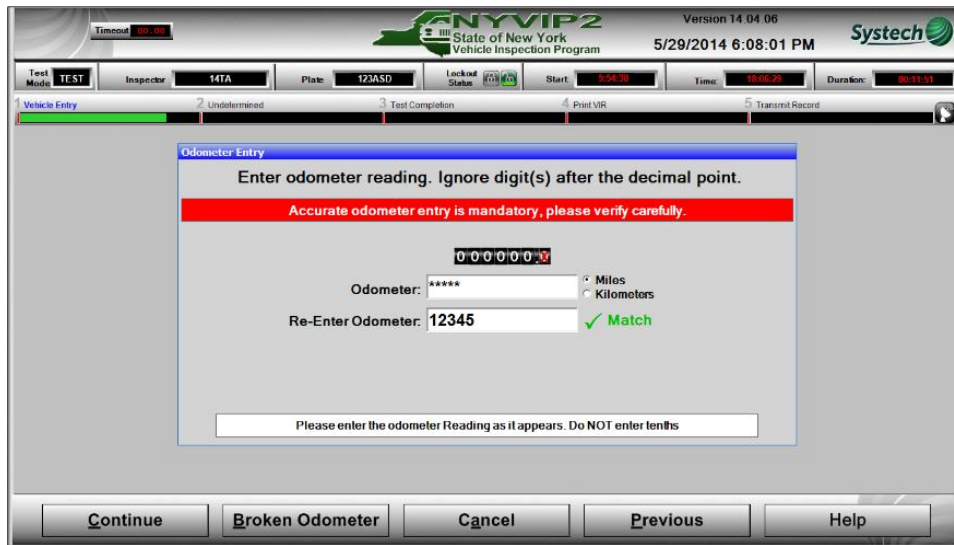
First, enter the **Displacement**. The screen defaults to entry in Liters (L). To enter the engine size in Cubic Inches (CI) or Cubic Centimeters (CC), select the appropriate option. Then select the **Cylinders**, **Transmission**, and **Exhaust Configuration**. Select **'Continue'** to proceed to the next screen.

### Vehicle Odometer Entry

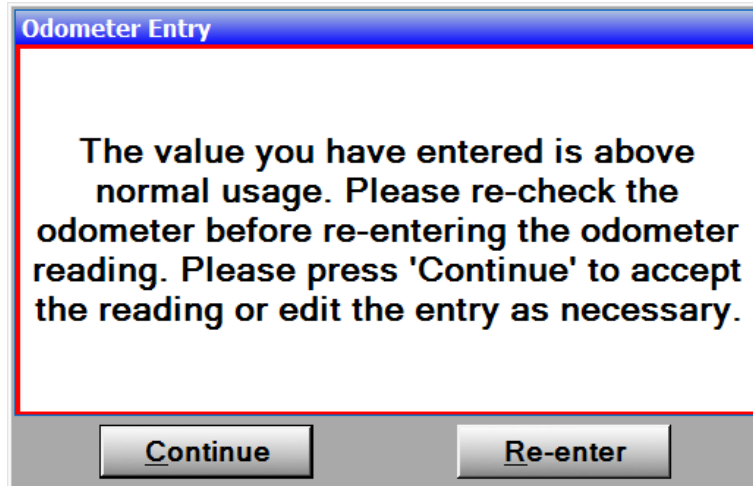
Enter the vehicle's mileage from the odometer.



Enter the odometer reading twice. If the second odometer reading is entered incorrectly, the readings will automatically erase and the inspector will need to re-enter both values.



The odometer readings will be compared to readings from the previous inspection for the vehicle. Normal usage is checked for the model year of the vehicle versus the data entered and if the odometer reading appears incorrect due to these checks an error message will be displayed.



Confirm the odometer reading and select '**Continue**' to proceed with the current reading entered, or '**Re-enter**' to change the odometer reading. Once the vehicle odometer entry is complete, select '**Continue**' to proceed to the next screen.

## Vehicle Data Entry Review Screen

Once all entries are complete, the vehicle entry review screen displays.

| Field        | Value             |
|--------------|-------------------|
| VIN          | 2T1BR32E77C747054 |
| Plate        | NOPLATE           |
| Year         | 2002              |
| Make         | OTHER             |
| Model        | OTHER             |
| Vehicle Type | Passenger Car     |
| NYMA         | No                |
| Cylinders    | 6                 |
| Displacement | 2                 |
| Transmission | Automatic         |
| Fuel         | Gasoline          |
| Odometer     | 12345             |
| Weight Code  | 0 - 8500 lbs      |

If all of the entries are accurate, select '**Continue**' to proceed with the inspection. Select '**Cancel**' if there is any reason you must exit the inspection process. If any entry field needs to be adjusted select the option next to the incorrect value (such as **Displacement**) and the analyzer software will direct you through correcting the values.

## 16-1.1 Safety Component Check

The following screen displays the **Test Type** screens which describe what inspections will be performed based on the vehicle model year and weight.

This vehicle will be subjected to the following inspection options...

Inspection Type: Initial

**Included Tests**

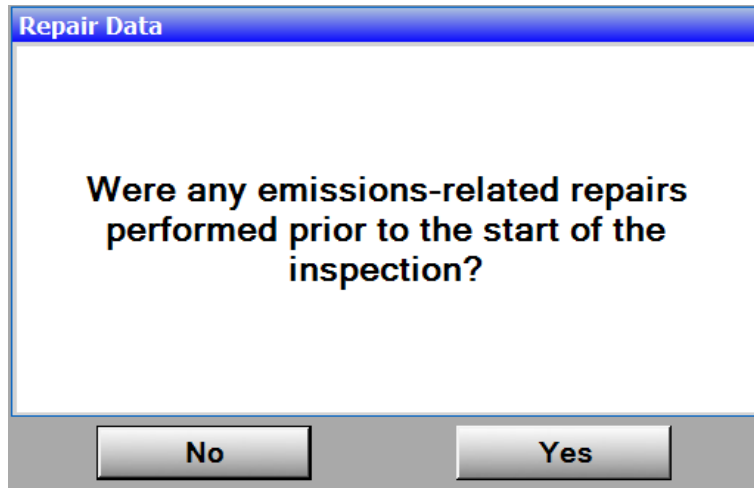
- Safety
- ECD
- GasCap
- OBD

\* Inspection cannot be cancelled or aborted after this screen

Select Continue to proceed or Cancel to exit inspection.

## 16-1.2 Emissions Related Repair

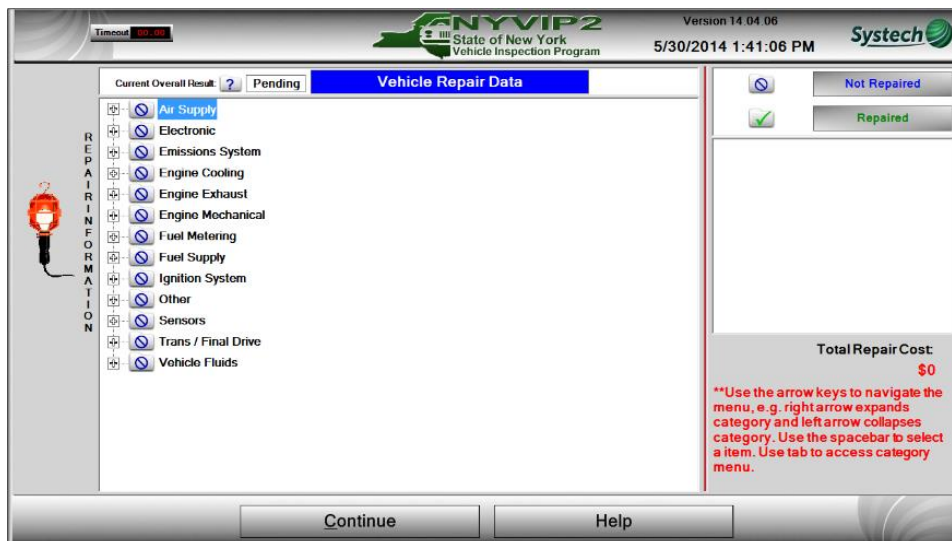
If the Inspection Type is a re-inspection, a prompt to enter emissions related repairs will display, select 'Yes' to enter information or 'No' to continue the inspection.



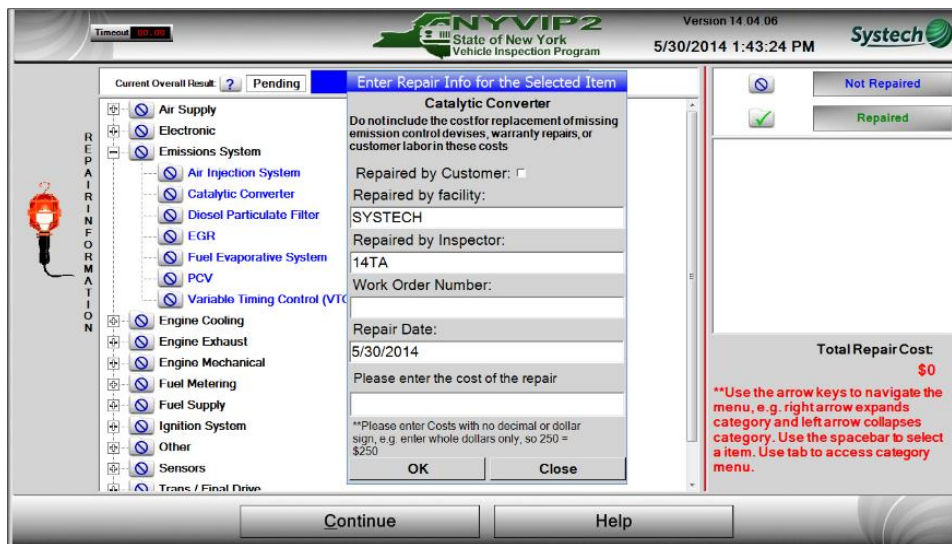
A dialog box titled "Repair Data" with a blue header. The main area contains the text: "Were any emissions-related repairs performed prior to the start of the inspection?". At the bottom, there are two buttons: "No" on the left and "Yes" on the right.

### Vehicle Repair Data

Select the vehicle category from the list and select the plus (+) sign to expand it. Valid results for the items are **Unchecked**, **Not Repaired**, and **Repaired**. Once the item is highlighted, vehicle components will be displayed. Repair costs related to the item can then be entered by double clicking on the item.



The screenshot shows the "Vehicle Repair Data" window in the NYVIP2 software. The title bar includes "State of New York Vehicle Inspection Program", "Version 14.04.06", and "Systech". The current overall result is "Pending". On the left, a vertical menu lists vehicle categories: Air Supply, Electronic, Emissions System, Engine Cooling, Engine Exhaust, Engine Mechanical, Fuel Metering, Fuel Supply, Ignition System, Other, Sensors, Trans / Final Drive, and Vehicle Fluids. The "Air Supply" category is selected and expanded. On the right, there are two buttons: "Not Repaired" (with a minus sign icon) and "Repaired" (with a plus sign icon). Below these buttons, the "Total Repair Cost" is displayed as "\$0". A red text note at the bottom right reads: "\*\*Use the arrow keys to navigate the menu, e.g. right arrow expands category and left arrow collapses category. Use the spacebar to select a item. Use tab to access category menu." At the bottom of the window are "Continue" and "Help" buttons.



Select the check box next to **'Repaired by Customer'** if the repairs were completed by the Customer, otherwise the station information will pre-populate in the related fields. Enter the date of repair in the **'Repair Date'** field and enter the cost of repairs on the following field. The Total Repair Cost will display in the lower right corner of the screen.

## 16-1.3 Emissions Waiver

### Emissions Waiver

New York State has elected to offer a repair expenditure based waiver to motorists when properly documented repairs exceed a certain dollar threshold. The emission inspection waiver form will be printed when NYVIP2 has calculated that the total cost of the recorded repairs has exceeded the waiver limit and the inspector has indicated the waiver will be granted. The NYVIP2 emission inspection stations will have the option to issue emission inspection waivers.

Access to the waiver process will be restricted to only vehicles that have failed the OBD inspection, where the costs of the vehicle's emission related repairs are greater than or equal to the waiver limit (currently \$450.00). Requirements for waivers include:

- ◆ The vehicle must have previously failed the emission inspection (must be a re-inspection).
- ◆ Repairs performed are not warranty repairs.
- ◆ The vehicle must pass the safety inspection.
- ◆ The total cost of the repairs must exceed the waiver limit.
- ◆ All repair costs included in the waiver limit must be associated with an emission related component defined in the repair screen (but cannot include replacement emission control devices that were tampered with or missing).
- ◆ The vehicle must pass the emission control device tampering inspection (excluding diesel).

When qualified repairs (based on the above list) were performed on a vehicle, the cost of these repairs can be added to any prior qualifying repairs associated with any prior re-inspections.

**Enter Repair Info for the Selected Item**

**Catalytic Converter**

Do not include the cost for replacement of missing emission control devices, warranty repairs, or customer labor in these costs

Repaired by Customer:

Repaired by facility:  
7116588

Repaired by Inspector:  
14TB

Work Order Number:

Repair Date:  
6/12/2014

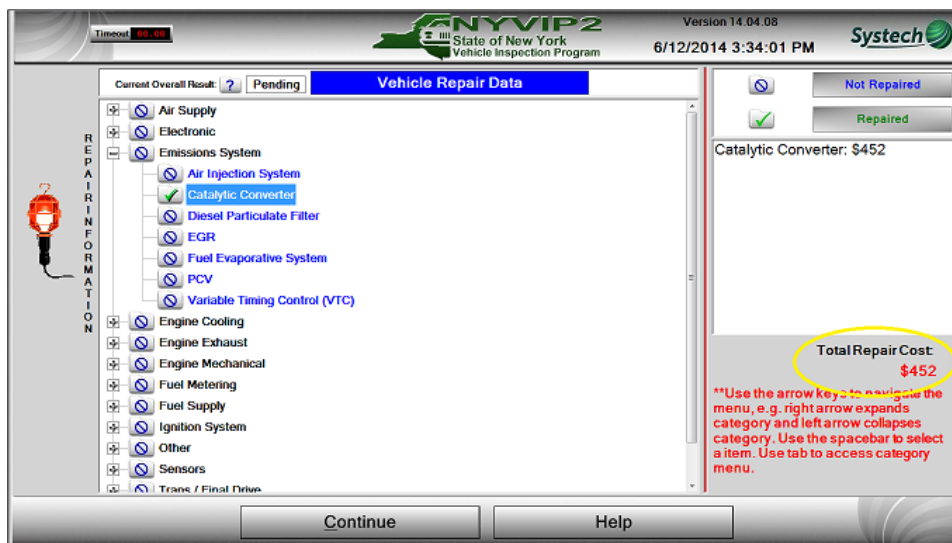
Please enter the cost of the repair

452

\*\*Please enter Costs with no decimal or dollar sign, e.g. enter whole dollars only, so 250 = \$250

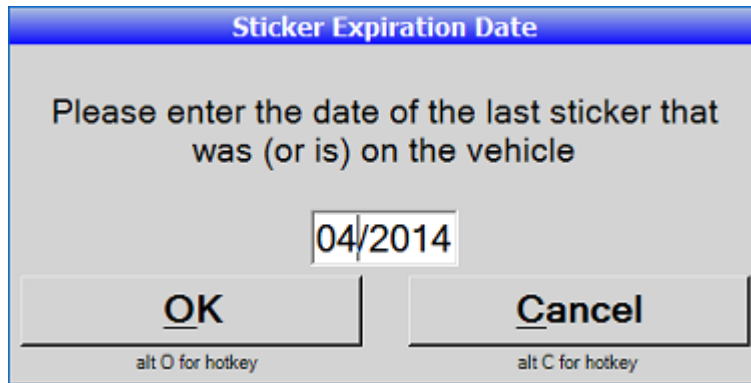
**OK**      **Close**

Enter cost of repairs with no decimal or dollar sign as shown above.



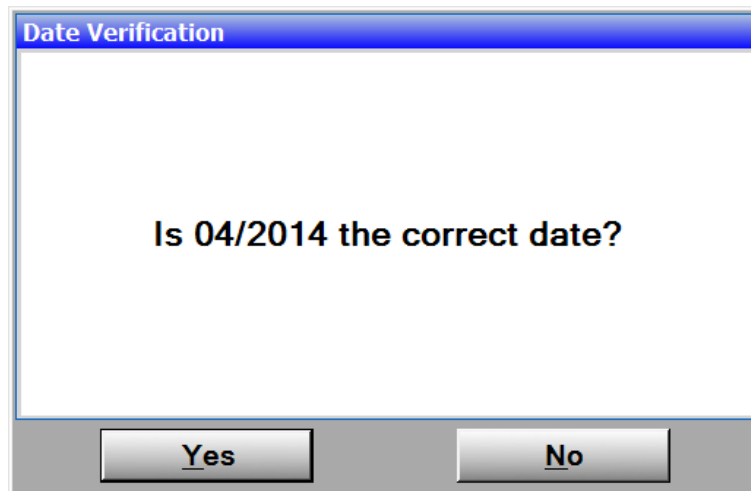
Select 'Continue'

Continue with the completion of the inspection. If the inspection fails the OBD portion of the inspection the analyzer will display the following message.



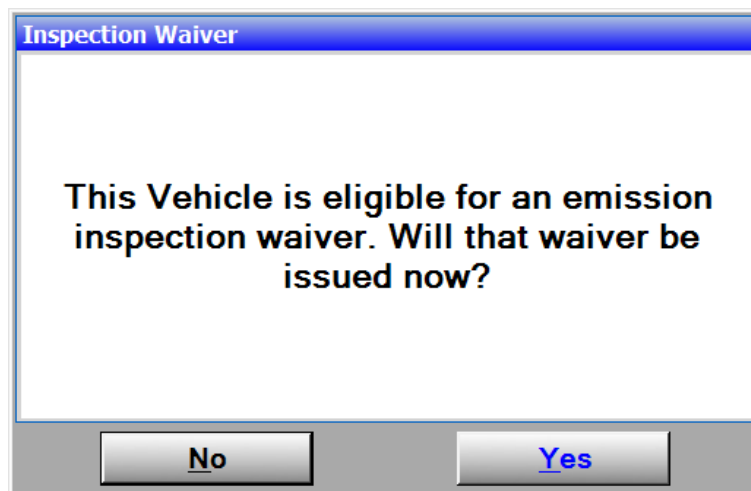
A dialog box titled "Sticker Expiration Date" with a blue header. The main text reads: "Please enter the date of the last sticker that was (or is) on the vehicle". Below the text is a text input field containing "04/2014". At the bottom, there are two buttons: "OK" (with a hotkey "alt O") and "Cancel" (with a hotkey "alt C").

Enter the expired sticker date that was (is) on the vehicle and select 'OK'.



A dialog box titled "Date Verification" with a blue header. The main text reads: "Is 04/2014 the correct date?". At the bottom, there are two buttons: "Yes" and "No".

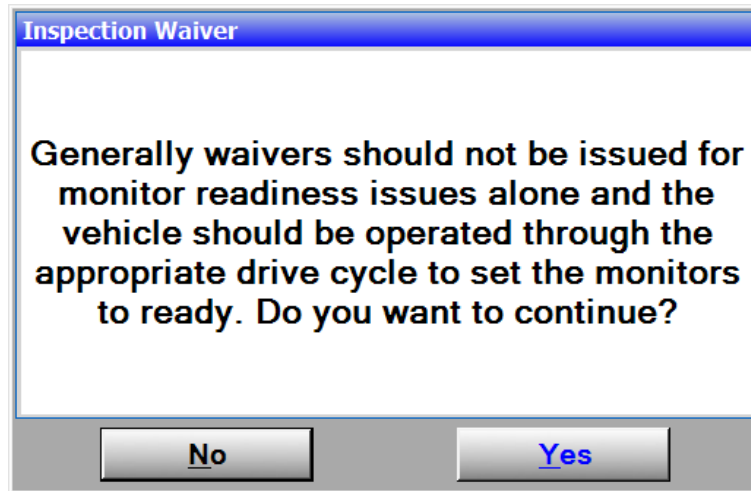
Select 'Yes' and the following message will be displayed.



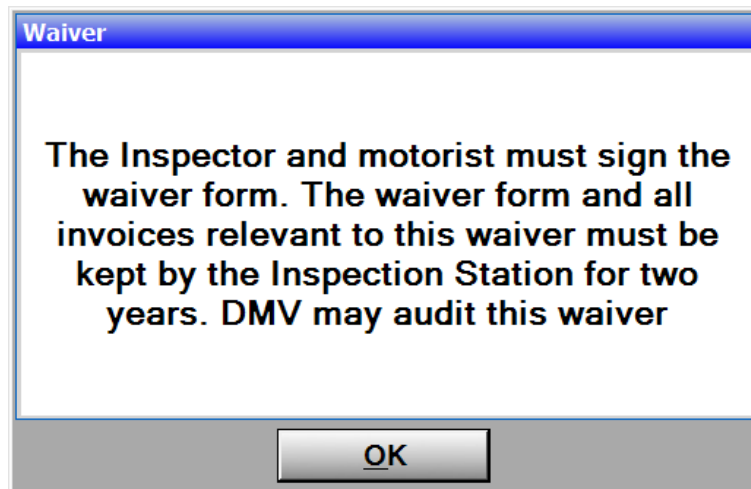
A dialog box titled "Inspection Waiver" with a blue header. The main text reads: "This Vehicle is eligible for an emission inspection waiver. Will that waiver be issued now?". At the bottom, there are two buttons: "No" and "Yes".



Select **'Yes'** and the following message will be displayed.



Select **'Yes'** to proceed with the waiver process.



Select **'OK'**

Timeout 00:00

Version 14.04.08  
6/12/2014 3:37:03 PM

State of New York  
Vehicle Inspection Program

Systech

To issue a waiver you are stating:

- 1: This is not a vehicle being sold by a dealer
- 2: The repairs entered into the Inspection Workstation for this vehicle have not been performed prior to the initial emission failure.
- 3: The repairs made were not for missing Emission Control Devices or repairs covered under warranty.
- 4: The repairs made to this vehicle are relevant to the initial emission failure.
- 5: Repairs made to this vehicle by someone other than the Certified Inspector issuing this waiver have been verified by the Inspector issuing the waiver to the best of the Inspector's ability that the repairs were properly performed and are relevant to the initial emission failure.
- 6: You have legible copies of all invoices for parts and labor for repairs made to this vehicle relevant to the initial emission failure.
- 7: You have copies of all vehicle inspection receipts and/or inspection rejection notices for the initial emission inspection failure and all subsequent emissions inspection failures

Have all the above requirements been met?

Press CTRL + T to bring up regulation 79.251

Yes No

Select **'Yes'** if all of the waiver requirements have been met.

Timeout 00:00

Version 14.04.06  
5/30/2014 8:35:02 AM

State of New York  
Vehicle Inspection Program

Systech

Test Mode: TEST Inspector: MTA Plate: 12MBC Lockout Status: P/B No Start: 0:06:55 Time: 00:34:27 Duration: 00:27:37

Vehicle Entry Safety ECD GasCap CBD Test Completion Print VR Transmit Record

Scan barcode on sticker. Select Unable to Scan and enter manually only if barcode not readable.

If the actual sticker number does not match the expected number, the missing sticker(s) must be voided to proceed.  
For manual entry it is not necessary to type leading zeros.  
Entering a sticker outside of the loaded range will void the entire range.

Scan (barcode) the printed sticker serial number into the Actual (Printed) box

Available Sticker Range: 001145242 - 001145260 Type: Safety/Emission

Expected Sticker Number: 001145242

Actual (Printed) Sticker Number: 1145242

Number of Stickers in Inventory: 19

Void Range: 0 - 0 Void Total: 0

Void reason: -

Unable to Scan  
alt/U for keyboard select  
Manual Entry Enabled

Select Continue (alt/C) to Print Test Record

Continue

Scan the next sticker in inventory, affix the sticker to the windshield and select **'Continue'**.

Timeout: 00:00

Version 14.04.08

State of New York  
Vehicle Inspection Program

6/12/2014 3:37:41 PM

Systech

Test Mode: TEST Inspector: 14TB Plate: 123ASDF Lockout Status: [OK] Start: 0:00:00 Time: 00:37:39 Duration: 00:07:04

Vehicle Entry 2 Safety 3 ECD 4 Gas Cap 5 OBD 6 Test Completion 7 Print VIR 8 Transmit Record

---

STATE OF NEW YORK  
VEHICLE INSPECTION REPORT

Print Date: 6/12/2014 3:37:36 PM Inspection Date: 6/12/2014 3:28:51 PM Inspection Type: Re-Inspection Vehicle: 1434.08

| VEHICLE DETAILS | VIN  | MODEL | PLATE   | FUEL    |
|-----------------|------|-------|---------|---------|
| YEAR            | 2005 | 2005  | 123ASDF | Gas     |
| MAKE            | Ford | 2005  | 12345   | WEIGHT  |
|                 |      | 2005  | 12345   | 4000 lb |

| INSPECTION RESULTS | Inspection Results | Safety | OBD  | Sticker Number | Fee   |
|--------------------|--------------------|--------|------|----------------|-------|
|                    | Waiver             | Pass   | Pass | 12345678       | 10.00 |

Printed this waiver to the ticket performing your vehicle's inspection. To have to notify the inspector your vehicle has previously failed any part of its annual inspection within the last 30 days could result in your vehicle receiving a full safety and emission inspection and require you to pay for the full inspection.

**Inspection Results**

- Communication: Pass
- Seat-belts: Fail
- VEH. Components: Pass
- SOCS: Pass
- Sticker Catalyst: Not Ready
- Sticker Thermal Catalyst: Ready
- Sticker EVAP: Not Ready

**Required Items**

- Catalytic Converter: \$422

Continue Reprint Form

Select 'Continue' to print Waiver (VIR)

Below is an example of an Emissions Waiver



# STATE OF NEW YORK



## VEHICLE INSPECTION REPORT

Print Date: 6/5/2014 4:54:38 PM      Inspection Date: 6/5/2014 4:50:33 PM      Inspection Type: Re-Inspection      Version: 14.04.08

| VEHICLE DETAILS | VIN  | 2G2WS542641259071 | MODEL   | Grand Prix | FUEL   | G            |
|-----------------|------|-------------------|---------|------------|--------|--------------|
|                 | YEAR | 2004              | PLATE   | FLY4175    | WEIGHT | 0 - 8500 lbs |
|                 | MAKE | Pontiac           | MILEAGE | 123,456    | EIR #  | 717849       |

| INSPECTION RESULTS | Inspection Result | Safety | OBD  | Sticker Number | Fee   |
|--------------------|-------------------|--------|------|----------------|-------|
|                    | WAIVER            | PASS   | FAIL | LE: 1145289    | 11.00 |

Present this receipt to the facility performing your vehicle's inspection. Failure to notify the inspector your vehicle has previously failed any part of its' annual inspection within the last 30 days could result in your vehicle receiving a full safety and emission inspection and require you to pay for the full inspection.

**Emissions Results**  
 Communication Pass  
 Readiness Pass  
 MIL Commanded Fail  
 KOEO Pass  
 KOER Pass

**1 Diagnostic Trouble Codes Present**  
 P0100 Mass or Volume Air Flow Circuit Malfunction

**Repaired Items**  
 Catalytic Converter: \$450  
 Fuel Evaporative System: \$195  
 EGR: \$50  
 PCV: \$25  
 Battery : \$150  
 Catalytic Converter: \$450  
 Fuel Evaporative System: \$195  
 EGR: \$50  
 PCV: \$25

**CONSUMER INFO**

**VEHICLE INSPECTION QUESTIONS:**  
 For additional information please contact the Department of Motor Vehicles at website address  
<http://www.dmv.ny.gov>  
 Or by telephone number: 518-486-9786.



| STATION DETAILS | Inspector Number | 19M0                    | NYVIP2 Record Number | 32               | Online/Offline        | Online     | DMV Record Match |           |
|-----------------|------------------|-------------------------|----------------------|------------------|-----------------------|------------|------------------|-----------|
|                 | Facility Number  | 7116588                 | Facility Name        | TEST RECORD FIVE | Facility Phone Number | 5182033315 | Analyzer Number  | NY0000014 |
|                 | Address          | 98 NIVER STREET, COHOES |                      |                  |                       |            |                  |           |



Print Date: 6/5/2014 4:54:39 PM

Version: 14.04.08

|                     |                 |
|---------------------|-----------------|
| <b>FINAL RESULT</b> | <h1>WAIVER</h1> |
|---------------------|-----------------|

|                        |              |                   |              |            |                    |                     |
|------------------------|--------------|-------------------|--------------|------------|--------------------|---------------------|
| <b>VEHICLE DETAILS</b> | <b>VIN</b>   | 2G2WS542641259071 | <b>MAKE</b>  | Pontiac    | <b>WAIVER DATE</b> | 6/5/2014 4:50:33 PM |
|                        | <b>PLATE</b> | FLY4175           | <b>MODEL</b> | Grand Prix | <b>MILEAGE</b>     | 123,456             |
|                        | <b>YEAR</b>  | 2004              | <b>FUEL</b>  | G          | <b>EIR #</b>       | 717849              |

|                        |                     |                         |                          |                       |
|------------------------|---------------------|-------------------------|--------------------------|-----------------------|
| <b>STATION DETAILS</b> | <b>UNIT ID</b>      | <b>INSPECTOR NO.</b>    | <b>STATION NO.</b>       | <b>INSPECTION FEE</b> |
|                        | NY00000014          | 19MQ                    | 7116588                  | 11.00                 |
|                        | <b>Station Name</b> | TEST RECORD FIVE        |                          |                       |
|                        | <b>Address</b>      | 98 NIVER STREET, COHOES |                          |                       |
|                        | <b>Phone Number</b> | 5182033315              | <b>Total Repair Cost</b> | 1590                  |

**CONSUMER INFO**

Under Certain Circumstances, A Waiver Of The Emission May Be Offered. For A Station To Grant A Waiver, All Of The Following Conditions Must Have Been Met:

The Vehicle Passed The Safety Inspection, and Emission Control Device Check (includes gas cap check, not applicable for diesel vehicles).

The Cost Of All Emission Related Repairs, Excluding Replacing Missing Emission Control Devices and Warranty Related Costs, Meets Or Exceeds The Waiver Limit.

The Repairs have Been recorded Accurately On This Form.

This Form, Which Has Been Completed By Both The Inspector Who Performed And / Or Verified The Repair Work And The Motorist, Must Be Retained By The Station Granting The Waiver.

The Station Granting The Waiver Must Retain Copies Of Invoices And Receipts For All Diagnostic And Repair Work Done To Enable The Vehicle To Qualify For An Emissions Waiver, Regardless Of Who Performed The Work.

**VEHICLE INSPECTION QUESTIONS:** For additional information please contact the Department of Motor Vehicles at website address: [www.nysdmv.com/vehsafe.htm](http://www.nysdmv.com/vehsafe.htm). Telephone Number: 518-486-9786.

**Inspector's Certification**

I Certify That Copies Of Invoices And/Or Receipts Supporting The Repair Items Listed Above Are Attached To This Document. To The Best Of My Knowledge The Indicated Work Has Been Performed On The Described Vehicle.

**Inspector's Signature:** \_\_\_\_\_

**Motorist's Certification**

I Certify That To The Best Of My Knowledge, The Diagnostic And Repair Work Required By This Form Has Been Performed. Copies Of Invoices And/Or Receipts Are Attached.

**New York State Department of Motor Vehicles  
Vehicle Repair Waiver Disclaimer**

The vehicle described on this form is being issued a waiver because it has met the necessary criteria. Although the vehicle may now be re-registered, the vehicle is still in need of emissions-related repairs. The New York State Department of Motor Vehicles strongly advises the vehicle owner to complete the needed repairs as soon as possible to minimize the cost of future vehicle repair, any increase in vehicle emissions, and any chance of a serious drivability-related problem.

I acknowledge that the NYS Department of Motor Vehicles and Systech are not legally responsible for any costs or injuries incurred by any driver or passenger of the vehicle described above.

**Motorist's Signature:** \_\_\_\_\_

## 16-1.4 Brake/Wheel Check

The next step in the inspection process is the **Brake/Wheel Check**. This information is based on the vehicle and trailer weight. Vehicles with weight code of 1 or 2 are required to remove one of the two front wheels and select which wheel was removed.

The screenshot shows the 'Brake/Wheel Check Information' screen in the NYVIP2 software. At the top, there is a header with 'NYVIP2 State of New York Vehicle Inspection Program', 'Version 14.04.06', and 'Systech'. Below this is a status bar with fields for 'Test Mode: TEST', 'Inspector: 14TA', 'Plate: 12MBC', 'Lockout Status: OK', 'Start: 6:36:55', 'Time: 06:38:36', and 'Duration: 00:14:11'. The main content area has a blue header 'Brake/Wheel Check Information' and a prompt: 'Please Choose the Wheel(s) removed to inspect the Vehicle's brakes.' Below the prompt are two boxes: 'Unselected Options' containing 'B) R/F', 'C) L/R', 'D) R/R', 'F) Unable to Remove Wheel', and 'L) Brakes Checked using Approved Brake Tester'; and 'Selected Options' containing 'A) L/F'. A wheel icon with red arrows indicates the selection process. At the bottom, there is a note: '\* For keyboard press the letter of the option for each wheel that was removed from the Unselected Options box. To unselect an option press the letter from the Selected Options box.' and a 'Select Continue (alt/c) or press Enter to proceed' instruction. Two buttons, 'Continue' and 'Help', are at the very bottom.

If no selections are made, a prompt will display to remind the inspector to correct this. Select the wheel removed to move it to the **'Selected Options'** box. Select **'Continue'** to proceed.

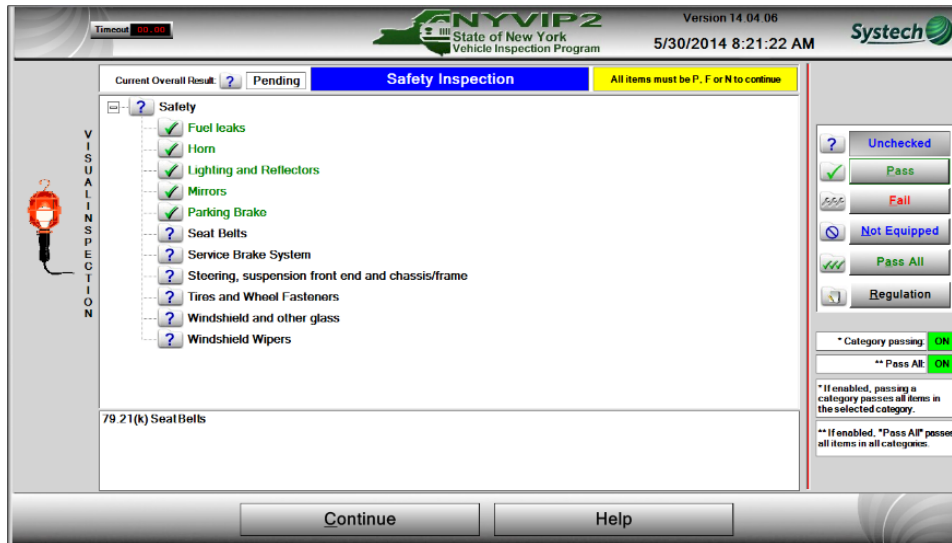
## 16-1.5 Motorist Advisory Check

This screen is for advisory purposes and does not affect the outcome of the inspection. Answer the questions displayed.

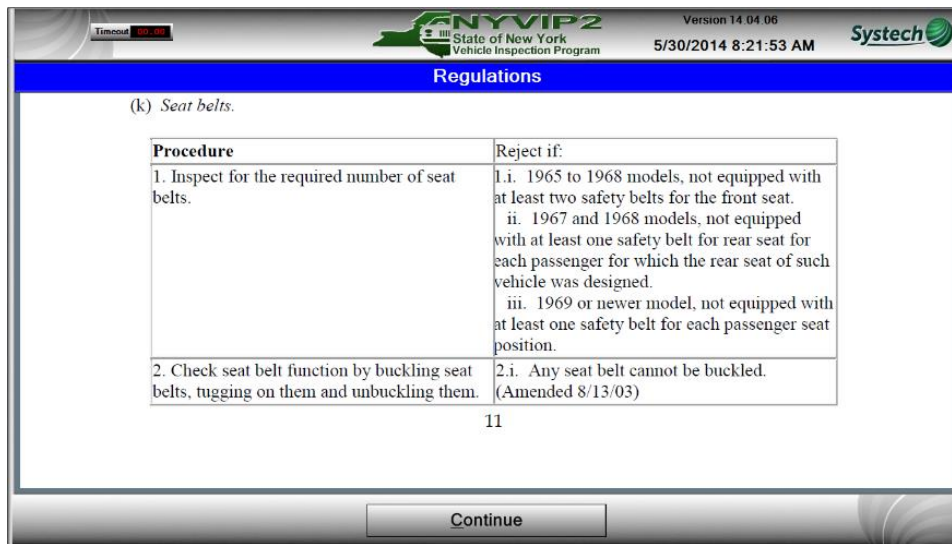
The screenshot shows the 'Motorist Advisory Checks' screen. It has a blue header with the title 'Motorist Advisory Checks'. Below the header is a disclaimer: '\*\* The following is for advisory purposes only and does not affect the outcome of the inspection. For keyboard press Y or N for each option'. The main content area contains three questions: 'Is the vehicle's tire pressure within manufacturer's specification (Y/N)?' with 'Yes' and 'No' buttons; 'With the vehicle's ignition key on, and the engine off, does the Air Bag Readiness Light come on (Y/N)?'; and 'With the engine running, is the Air Bag Readiness light off?'. At the bottom, there is a 'Select Continue (alt/C) to proceed' instruction and a 'Continue' button.

Select **'Continue'** to proceed.

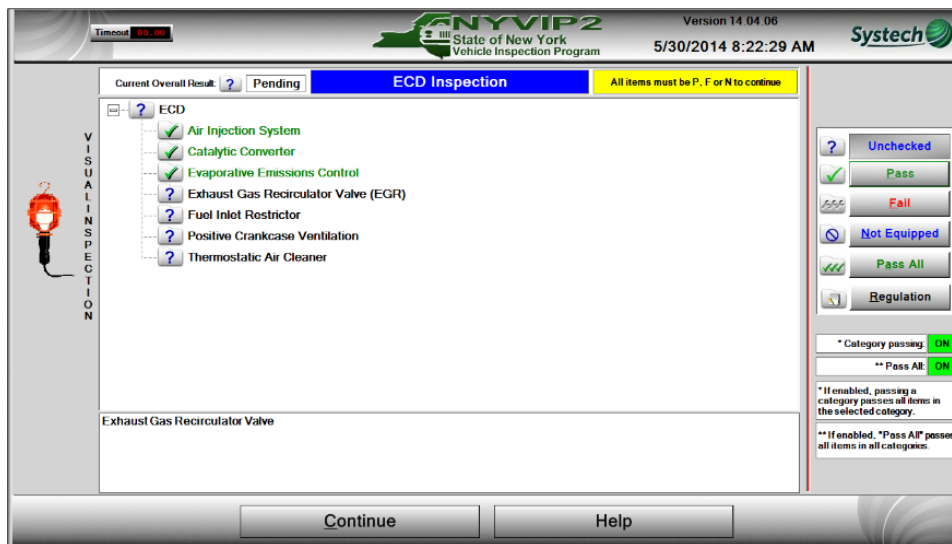
# 16-1.6 Safety Component Check



Select each component in the list and determine the appropriate result: ‘Pass’, ‘Fail’ or ‘Not Equipped’. If all items have passed inspection, the ‘Pass All’ button is available to speed up the process. If the regulation for inspection of the item needs reviewing, select the component by highlighting it, and then select ‘Regulation’.



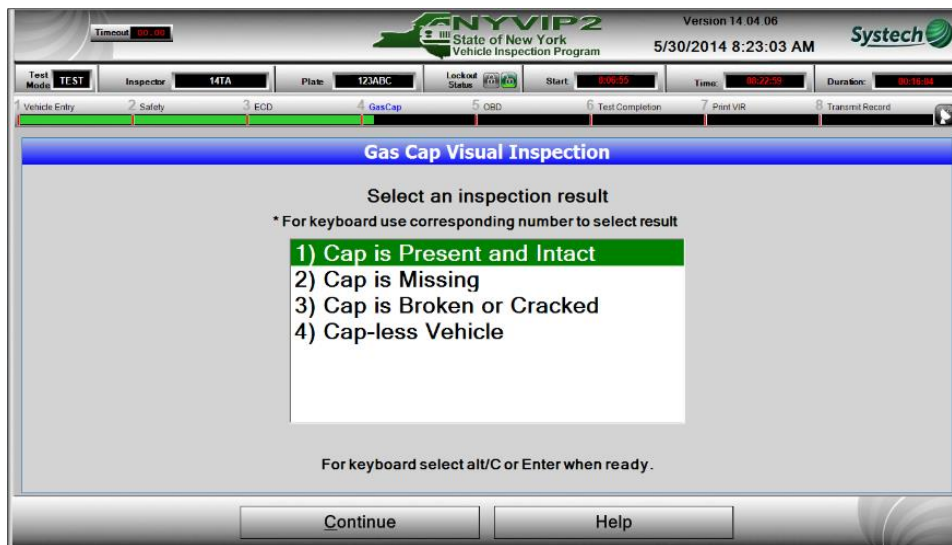
Select ‘Continue’ to return to the Safety Component check. After passing or failing all safety items select ‘Continue’ to proceed to the ECD Inspection screen.



After Passing or Failing ECD Items select **'Continue'** this will bring up the Gas Cap Inspection screen.

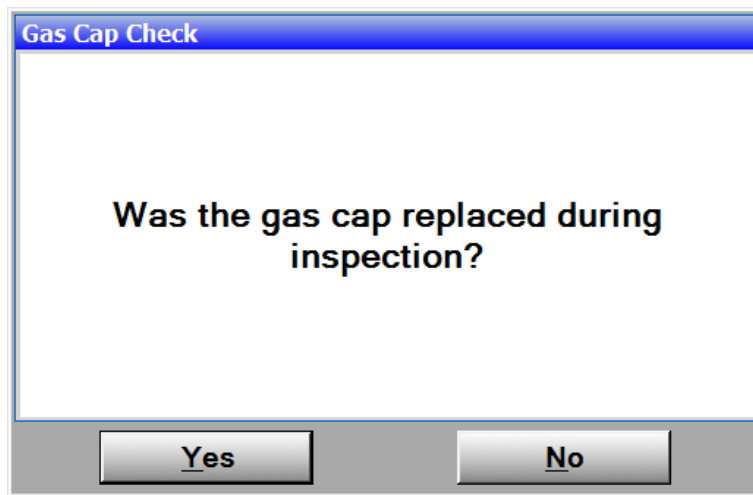
## 16-1.7 Gas Cap Visual Inspection

After visually inspecting the gas cap, select an inspection result from the list.



Selecting option 2 or 3 will display a message asking if the cap has been replaced during the inspection. If **'Yes'** is selected the Gas Cap will pass the inspection and continue on to the next screen, **'No'** will fail the inspection and continue.



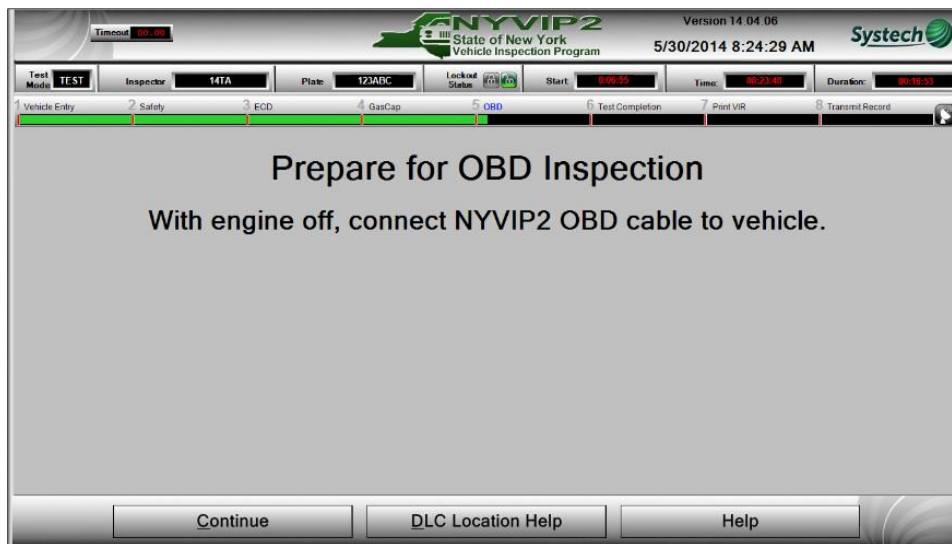


## 16-1.8 Prepare for OBD Inspection

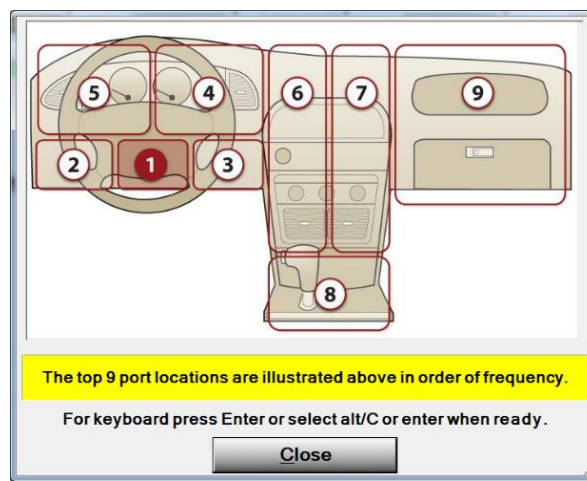
To prepare for the OBD Inspection, shut off the vehicles engine.



Select **'Continue.'** This will start the timer for the inspector to prepare the connection to the vehicle using the NYVIP2 OBD cable.

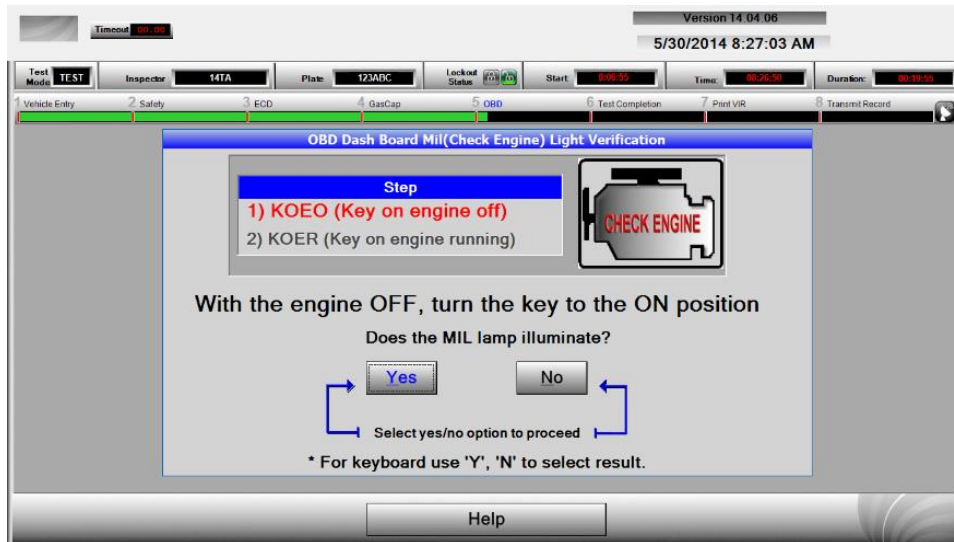


Select the 'DLC Location Help' if help is needed finding the location for the connection.

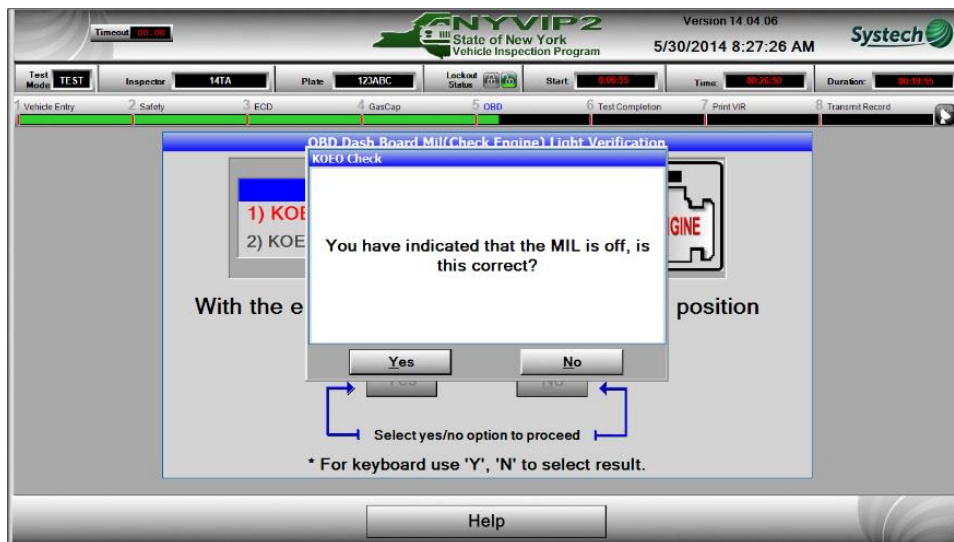


## 16-1.9 MIL Lamp Status

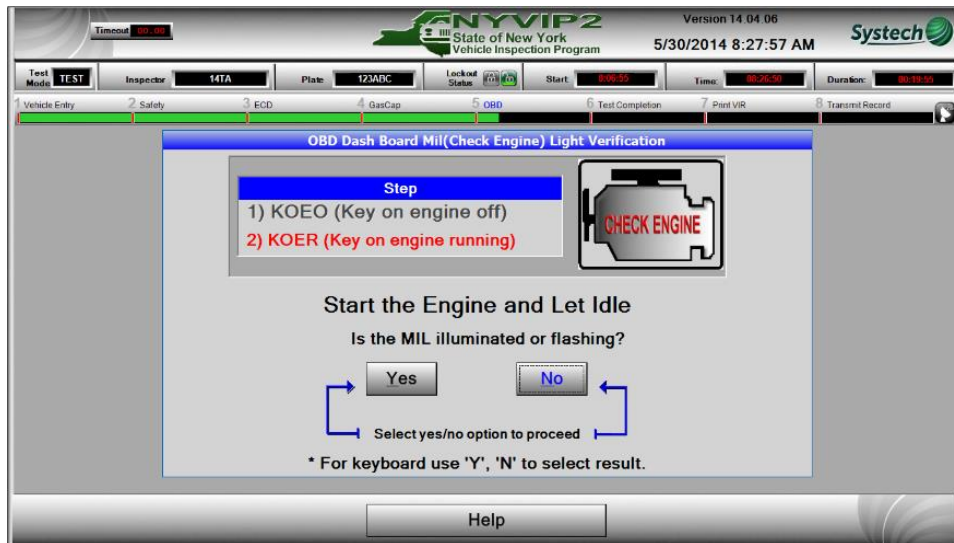
Answer the first question on the MIL lamp indicator on the vehicle dashboard. The first screen asks to verify that the MIL lamp illuminates when the engine is off and the key is on.



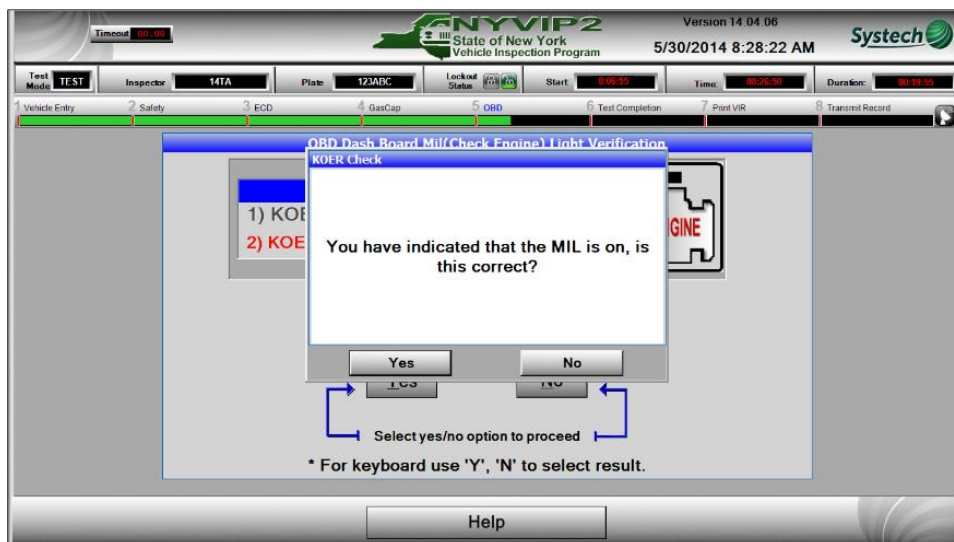
If you answer that the MIL lamp does not illuminate when the engine is off and the key is on, a prompt will appear to confirm the failing response. If user selects 'Yes' the vehicle will fail the emissions inspection.



The next step is to answer the second question on the MIL lamp indicator on the vehicle dashboard. The second screen asks to verify that the MIL lamp does not stay illuminated when the engine is running.



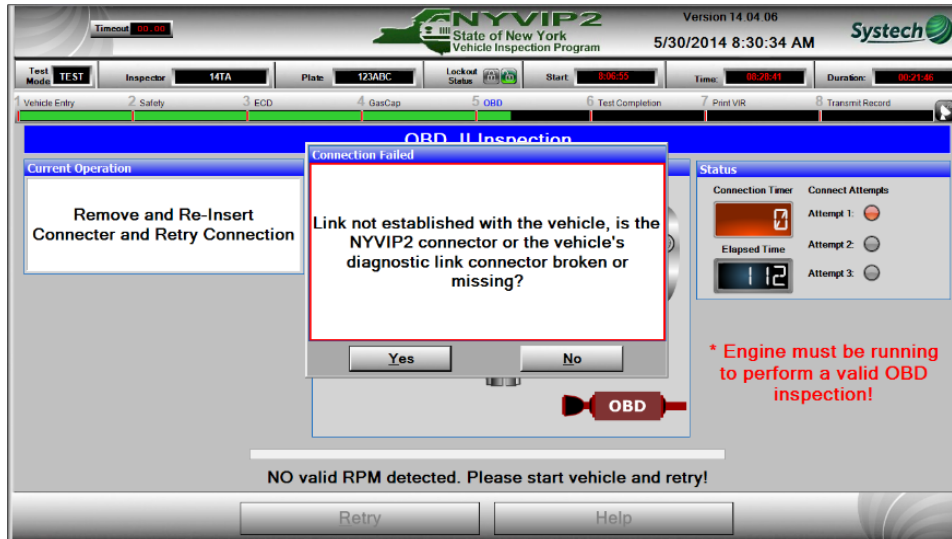
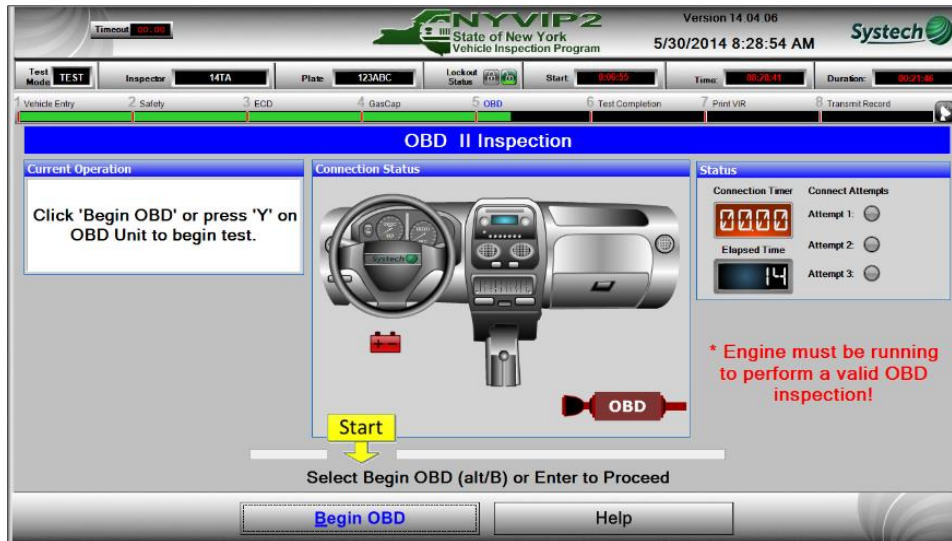
If it is indicated that the MIL lamp illuminates when the engine is running, the vehicle will fail the emissions inspection. A confirmation prompt will display to select 'Yes' or 'No'.



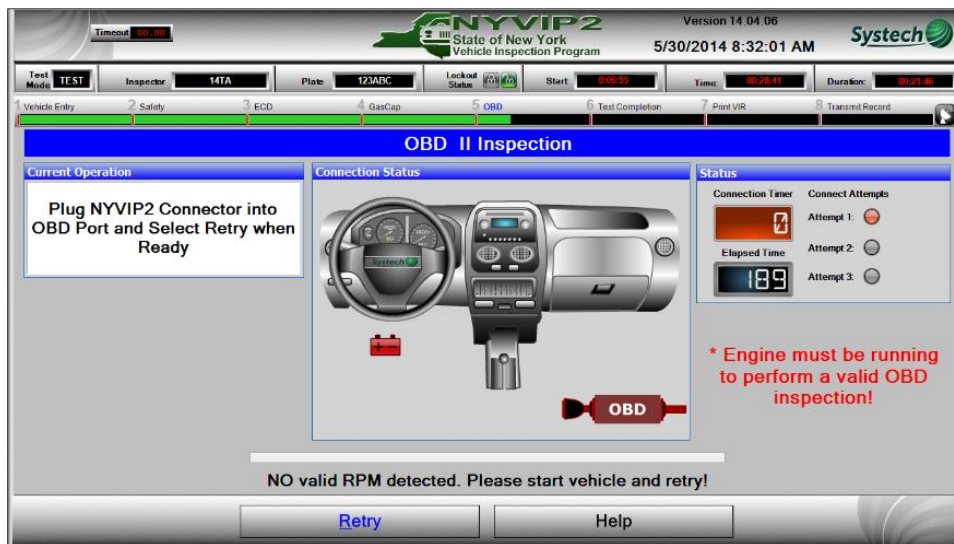
## 16-1.10 OBD II Inspection

With the engine off, plug the OBD II Connector into the vehicle's diagnostic port, if not already connected. Start the engine.

Select **'Begin OBD'** to begin the test.



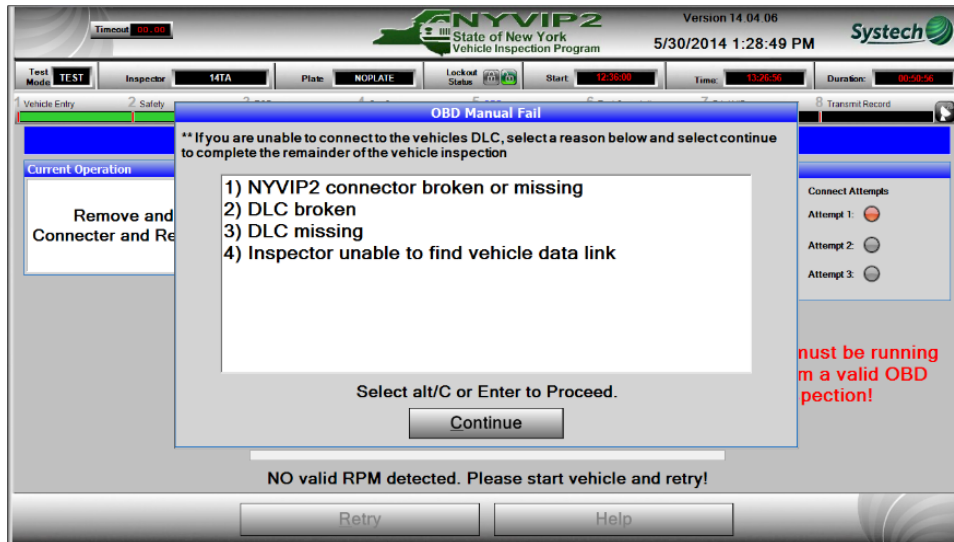
If the OBD connection was unsuccessful the Connection Failed message will display. Selecting **'No'** will allow the inspector to retry the OBD II inspection. Selecting **'Yes'** will stop the inspection and cause a DLC lockout



If the cable is not disconnected, a prompt will display to remind the inspector to do so. The inspection process will not continue until the car is disconnected from the OBD cable. Select 'OK', once the cable is disconnected.

## DLC Damaged

A vehicle may not be able to complete a valid OBDII inspection for various reasons. If so, 'DLC Damaged' may be chosen as a viable option. Select a valid reason for the incomplete OBDII inspection. Select 'Continue' to proceed.



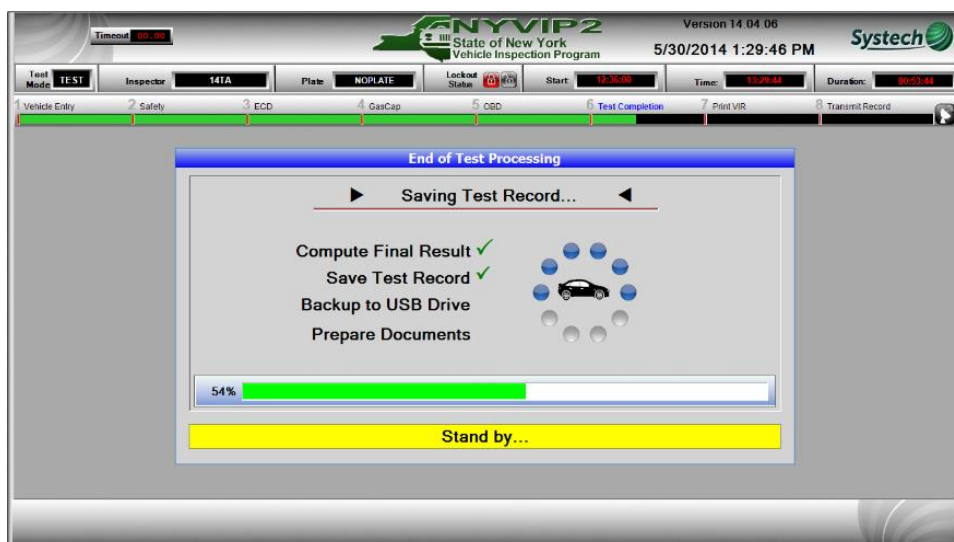
If the NYVIP2 connector is broken or missing, a lockout will be set by the analyzer. This must be corrected before any further testing can continue.

## 16-1.11 End of Test Processing

This chapter covers the final steps of the vehicle inspection process prior to the test fee collection and printing of the Vehicle Inspection Report (VIR).

### End of Test

At this point, the analyzer has enough information to complete the test sequence.



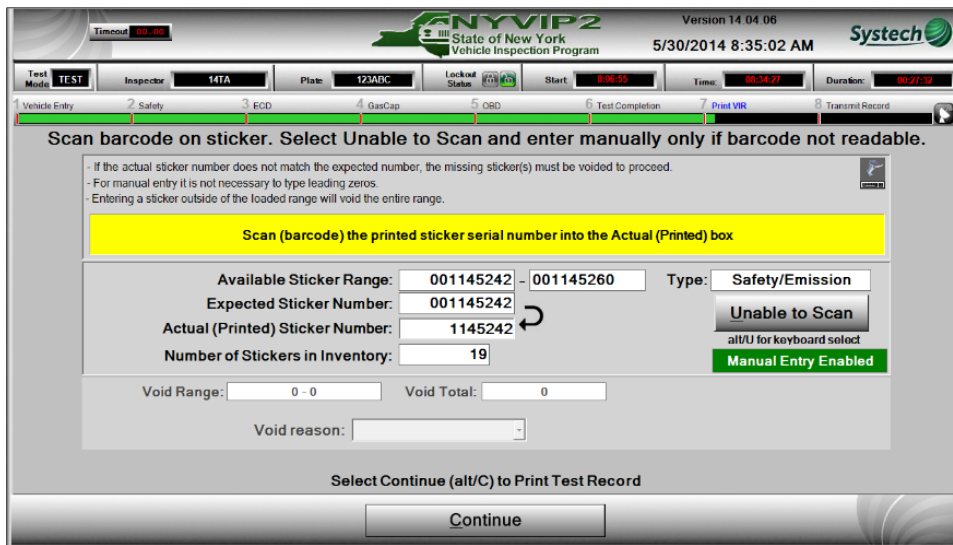
# 16-1.12 Vehicle Inspection Report Printing

At the end of each inspection, the analyzer prepares the Vehicle Inspection Report (VIR), which displays the outcome of the vehicle inspection.

## When Vehicle Passes

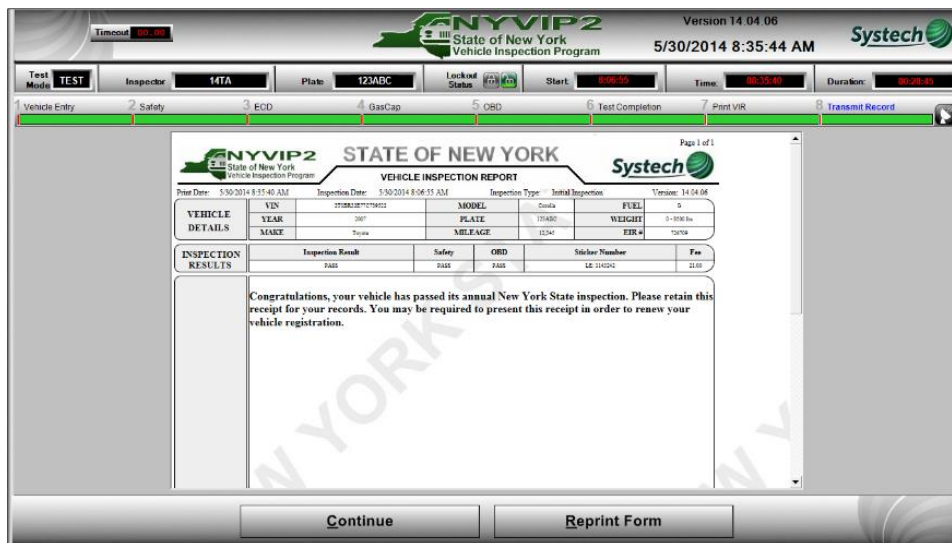
If a vehicle passes an inspection a scan sticker screen will appear. Scan the most current sticker in the inventory. This sticker number is displayed in the **Expected Sticker Number** Field. If the user is unable to scan the sticker select **'Unable to Scan'** and manually enter sticker number. Once the sticker is entered select **'Continue'**. Follow the instructions for next three prompts.

If the expected sticker is unavailable the user cannot scan or manually enter the next available sticker in the inventory, a prompt will be displayed confirming that the expected sticker will be skipped. If **'Yes'**, all stickers in inventory before scanned sticker range will be voided and a reason will need to be selected for why the other stickers are unavailable.





The analyzer automatically prints one copy of the VIR.



Scroll down to view the bottom portion of the VIR on the display screen. Note that the analyzer displays the VIR and provides a **'Reprint Form'** option. If no reprint is needed, select **'Continue'** to proceed.

Give the customer the VIR. The vehicle inspection process is now complete.

### When a Vehicle Fails

If the vehicle failed the inspection the VIR will have extra information that will help the vehicles owner complete the task of obtaining the necessary repairs. Review the report with the owner and answer any questions.

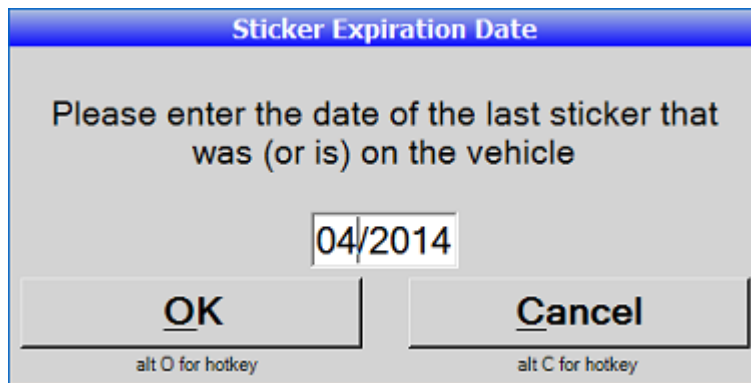
## 16-1.13 10-Day Extension

### 10-Day Extension

The 10-Day extension will only be available for issuance to vehicles meeting the following conditions:

- ◆ The vehicle failed the OBDII portion of the inspection for only the readiness evaluation.
- ◆ The previous inspection sticker has expired.
- ◆ The vehicle passed the safety, ECD and Gas Cap Check portions of the inspection.

The analyzer will prompt the inspector to enter the month and year (format MM-YYYY) of the expired inspection sticker that was scraped off of the vehicles windshield and confirm that it was expired based on today's date. If these two conditions are met, then the receipt can include the 10- day extension to permit legal driving in order to reset the readiness indicators.



**Sticker Expiration Date**

Please enter the date of the last sticker that was (or is) on the vehicle

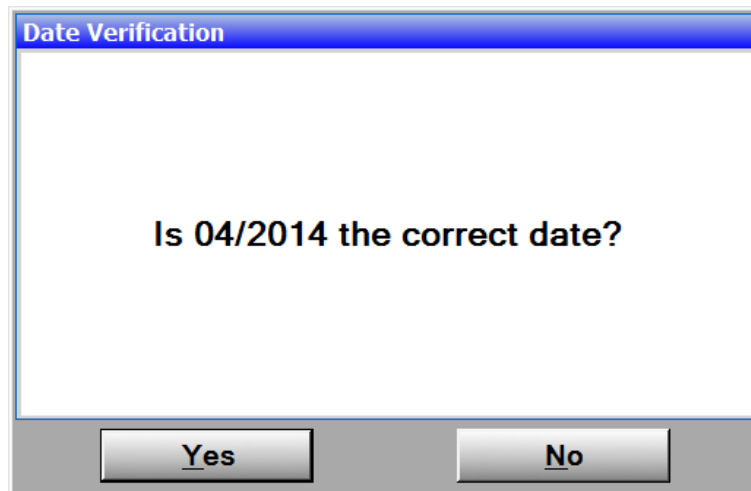
04/2014

**OK** **Cancel**

alt O for hotkey alt C for hotkey

This dialog box has a blue title bar with the text "Sticker Expiration Date". The main area is light gray and contains the instruction "Please enter the date of the last sticker that was (or is) on the vehicle". Below this is a text input field containing "04/2014". At the bottom, there are two buttons: "OK" and "Cancel". Below the "OK" button is the text "alt O for hotkey", and below the "Cancel" button is "alt C for hotkey".

Enter the expired sticker date that was (is) on the vehicle and select **'OK'**.



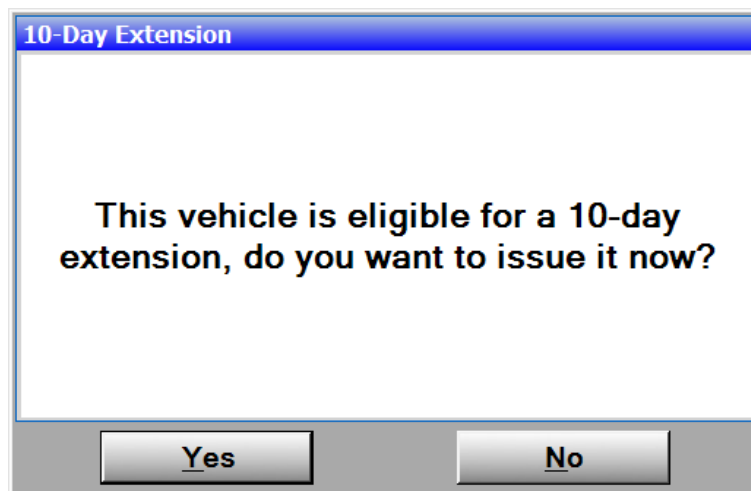
**Date Verification**

Is 04/2014 the correct date?

**Yes** **No**

This dialog box has a blue title bar with the text "Date Verification". The main area is white and contains the question "Is 04/2014 the correct date?". At the bottom, there are two buttons: "Yes" and "No".

Verify that the date entered is correct by selecting **'Yes'** or select **'No'** if the date was entered incorrectly. If **'No'** was selected, reenter the correct date. If **'Yes'** was selected the following message will be displayed.



**10-Day Extension**

This vehicle is eligible for a 10-day extension, do you want to issue it now?

**Yes** **No**

This dialog box has a blue title bar with the text "10-Day Extension". The main area is white and contains the message "This vehicle is eligible for a 10-day extension, do you want to issue it now?". At the bottom, there are two buttons: "Yes" and "No".

Select **'Yes'**.

Version 14.04.08  
 State of New York  
 Vehicle Inspection Program  
 6/12/2014 3:29:01 PM  
 Systech

Timeout: 00:00:00  
 Test Mode: TEST  
 Inspector: 14TB  
 Plate: 123ASDF  
 Lockout Status: 00:00:00  
 Start: 0:00:00  
 Time: 00:00:00  
 Duration: 00:00:00

Vehicle Entry 2 Safety 3 ECD 4 GasCap 5 OBD 6 Test Completion 7 Print VIR 8 Transmit Record

| VEHICLE DETAILS |            |
|-----------------|------------|
| YEAR            | 2005       |
| MAKE            | Tesla      |
| PLATE           | 123ASDF    |
| MILEAGE         | 12345      |
| WEIGHT          | 0-1500 lbs |
| STICKER NUMBER  | 12345      |
| FEES            | 11.00      |

| INSPECTION RESULTS |       |
|--------------------|-------|
| Inspection Result  | Pass  |
| Safety             | Pass  |
| OBD                | Pass  |
| Sticker Number     | 12345 |
| Fee                | 11.00 |

Present this receipt to the facility performing your vehicle's inspection. Failure to notify the inspector your vehicle has previously failed any part of an annual inspection within the last 90 days could result in your vehicle receiving a full safety and emissions inspection and require you to pay for the full inspection.

**THIS NOTICE MUST BE DISPLAYED ON THE LOWER LEFT CORNER OF THE VEHICLE'S WINDSHIELD**

**THIS VEHICLE HAS BEEN ISSUED A 10-DAY EXTENSION. PLEASE KEEP THIS RECEIPT IN THE VEHICLE UNTIL IT PASSES INSPECTION. THIS IS THIS VEHICLE'S ONLY EXTENSION. THIS VEHICLE WILL NOT RECEIVE ANOTHER.**

**EXTENSION EXPIRATION DATE: 6/22/2014**



| Emissions Results        |           |
|--------------------------|-----------|
| Conformity               | Pass      |
| Readiness                | Pass      |
| ISEL Calculated          | Pass      |
| SOBC                     | Pass      |
| SOER                     | Pass      |
| Monitor Control          | Not Ready |
| Monitor Blended Catalyst | Not Ready |
| Monitor EVAP             | Not Ready |

CONSUMER INFO

Continue      Reprint Form

Select **'Continue'**. The 10-Day Extension notice will be printed on the Vehicle Inspection Receipt (**VIR**). The 10- Day Extension can be issued for either an initial or re-inspection. The "10 Day Extension" will be printed on the VIR and posted in such a way as to make it easily discerned by law enforcement when displayed on a vehicle's dashboard.

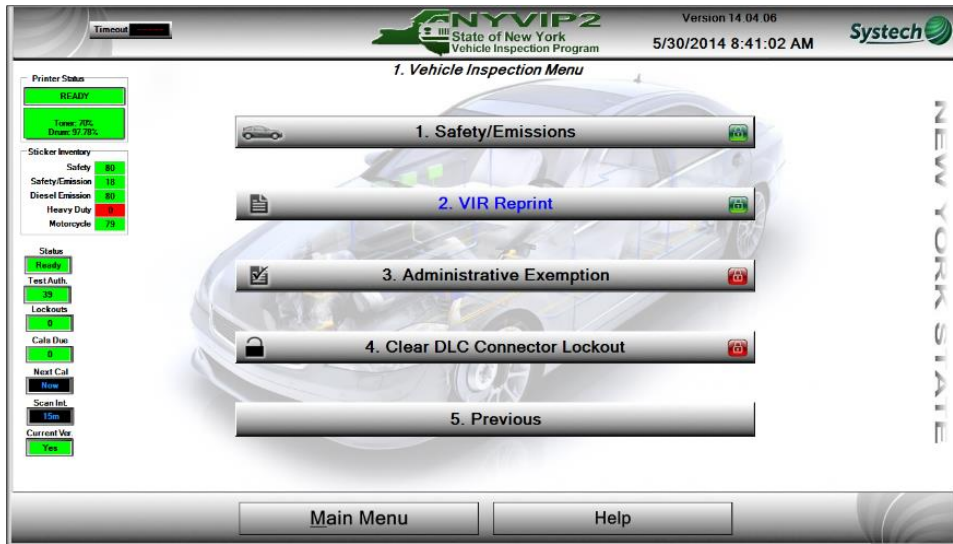
Below is an example of a 10-Day Extension

|  |  |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|--|--|---|------------------------------|-------------------------------------|---|-------------------|---------------|------|-----------|------|---------------|------|------|------|------|------|------------------|-----------|-------------------------|-----------|--------------|-----------|
|   |  | <h1 style="margin: 0;">STATE OF NEW YORK</h1> <h2 style="margin: 0;">VEHICLE INSPECTION REPORT</h2> |                              |                                     |  |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| Print Date: 6/12/2014 3:28:29 PM   |  | Inspection Date: 6/12/2014 3:22:53 PM   |                              | Inspection Type: Initial Inspection |   | Version: 14.04.08 |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <b>VEHICLE<br/>DETAILS</b>   | <b>VIN</b>   | 2T1BR32E83C035310   | <b>MODEL</b>                 | Corolla                             | <b>FUEL</b>   | G                 |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | <b>YEAR</b>  | 2003  | <b>PLATE</b>                 | 123ASDF                             | <b>WEIGHT</b>   | 0 - 8500 lbs      |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | <b>MAKE</b>  | Toyota  | <b>MILEAGE</b>               | 12,345                              | <b>EIR #</b>  |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <b>INSPECTION<br/>RESULTS</b>  | <b>Inspection Result</b>   |   | <b>Safety</b>                | <b>OBD</b>                          | <b>Sticker Number</b>   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | FAIL   |   | PASS                         | FAIL                                |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <b>CONSUMER<br/>INFO</b>   | <p>Present this receipt to the facility performing your vehicle's inspection. Failure to notify the inspector your vehicle has previously failed any part of its' annual inspection within the last 30 days could result in your vehicle receiving a full safety and emission inspection and require you to pay for the full inspection.</p> <div style="border: 2px solid black; padding: 10px; text-align: center;"> <p><b><u>THIS NOTICE MUST BE DISPLAYED ON THE LOWER LEFT CORNER OF THE VEHICLE'S WINDSHIELD</u></b></p> <p><b><u>THIS VEHICLE HAS BEEN ISSUED A 10-DAY EXTENSION, PLEASE KEEP THIS RECEIPT IN THE VEHICLE UNTIL IT PASSES INSPECTION. THIS IS THIS VEHICLES ONLY EXTENSION, THIS VEHICLE WILL NOT RECEIVE ANOTHER.</u></b></p> <p><b>EXTENSION EXPIRATION DATE: 6/22/2014</b></p> </div> <p><b>Emissions Results</b></p> <table border="0"> <tr><td>Communication</td><td>Pass</td></tr> <tr><td>Readiness</td><td>Fail</td></tr> <tr><td>MIL Commanded</td><td>Pass</td></tr> <tr><td>KOEO</td><td>Pass</td></tr> <tr><td>KOER</td><td>Pass</td></tr> <tr><td>Monitor Catalyst</td><td>Not Ready</td></tr> <tr><td>Monitor Heated Catalyst</td><td>Not Ready</td></tr> <tr><td>Monitor EVAP</td><td>Not Ready</td></tr> </table> |   |                              |                                     |   |                   | Communication | Pass | Readiness | Fail | MIL Commanded | Pass | KOEO | Pass | KOER | Pass | Monitor Catalyst | Not Ready | Monitor Heated Catalyst | Not Ready | Monitor EVAP | Not Ready |
|  | Communication  | Pass  |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| Readiness  | Fail   |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| MIL Commanded  | Pass   |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| KOEO   | Pass   |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| KOER   | Pass   |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| Monitor Catalyst   | Not Ready  |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| Monitor Heated Catalyst  | Not Ready  |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| Monitor EVAP   | Not Ready  |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <p><b>VEHICLE INSPECTION QUESTIONS:</b><br/>         For additional information please contact the<br/>         Department of Motor Vehicles at website address:<br/> <a href="http://www.dmv.ny.gov">http://www.dmv.ny.gov</a><br/>         Or by telephone number: 518-486-9786.</p> |  |   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <b>STATION<br/>DETAILS</b>   | <b>Inspector Number</b>  | <b>NYVIP2 Record Number</b>   | <b>Online/Offline</b>        |                                     | <b>DMV Record Match</b>   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | E4TB   | 60  | Online                       |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | <b>Facility Number</b>   | <b>Facility Name</b>  | <b>Facility Phone Number</b> |                                     | <b>Analyzer Number</b>  |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
|  | 7116588  | TEST RECORD FIVE  | 5182033315                   |                                     | NY00060014  |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |
| <b>Address</b>   |  | 98 NIVER STREET, COHOES   |                              |                                     |   |                   |               |      |           |      |               |      |      |      |      |      |                  |           |                         |           |              |           |

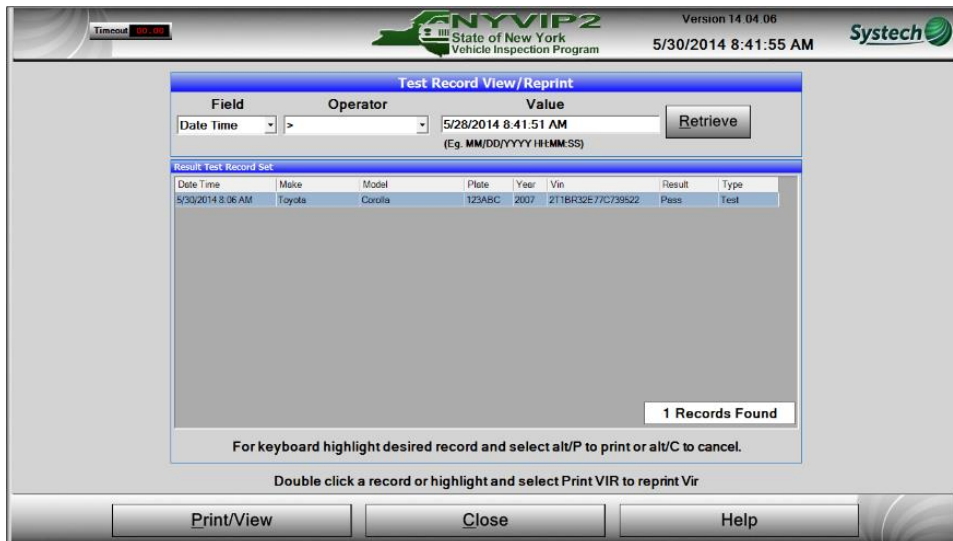
# 16-2 VIR Reprint

## VIR Reprint

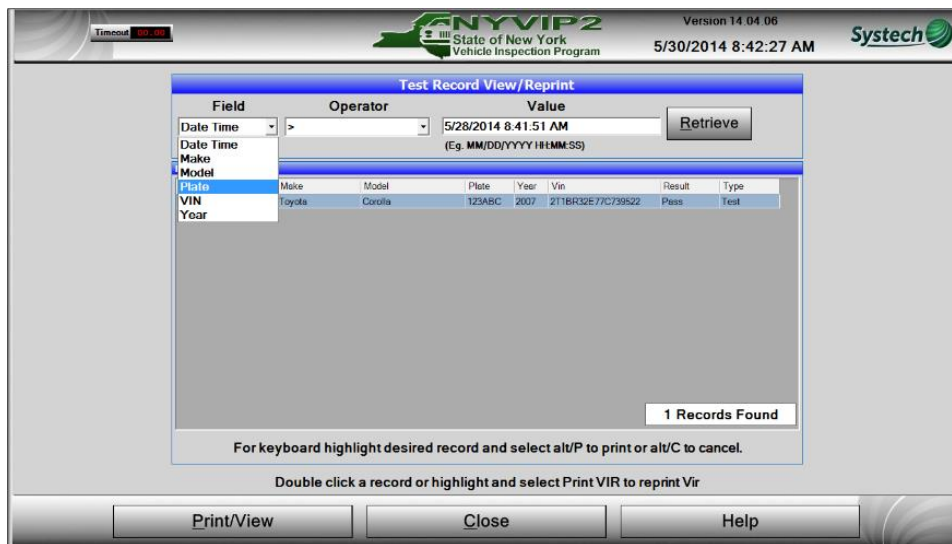
Should it be necessary to reprint a previous Vehicle Inspection Report (VIR), select **2. VIR Reprint**.



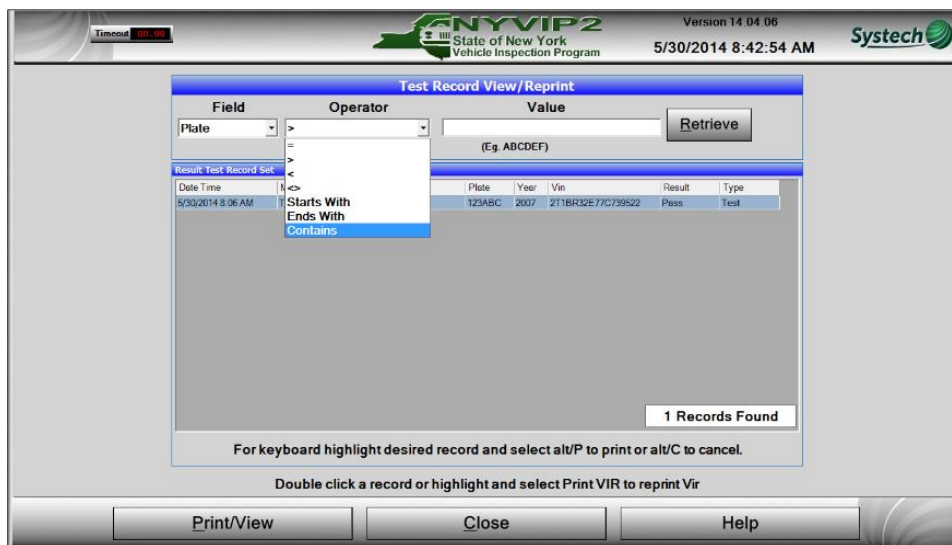
VIR's from the most recent inspections will be displayed automatically. For older inspections there are several ways to search.



In the **Field** select the type of information to be searched for. This can be by **Date & Time, Vehicle Make, Vehicle Model, Plate, VIN, or Vehicle Year.**

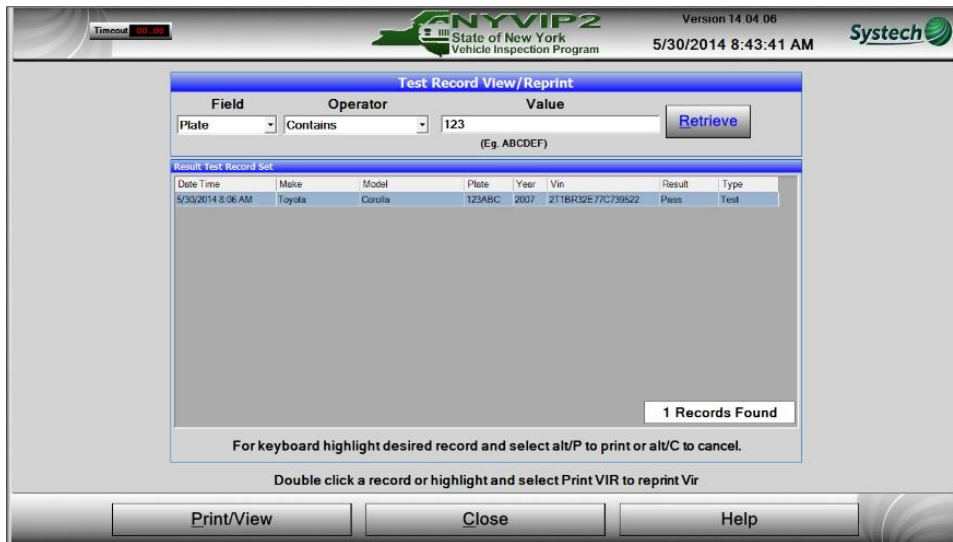


Select the operator. The **Operator** field will narrow down the results by changing how the search is completed.

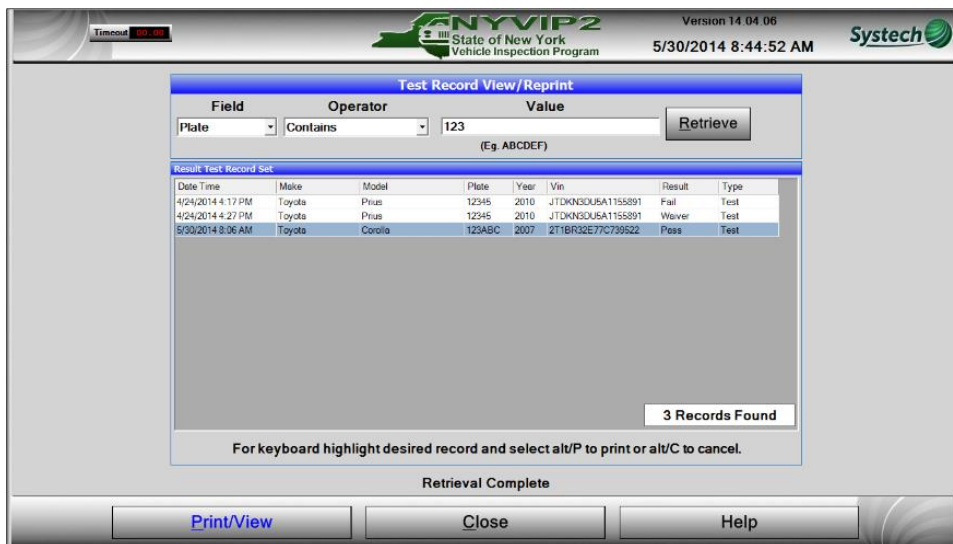


- '=' will only search for information that is an exact match
- '>' will only search for information with values greater than what is entered
- '<' will only search for information with values lesser than what is entered
- '<>' will only search for information that is not the value entered.
- 'Starts with' will search for information that starts with the value entered
- 'Ends with' will search for information that ends with the value entered
- 'Contains' will search for information that contains the value entered

Enter the value that is being searched for in the **Value** field.



Select **'Retrieve.'** This will search for the Value and display the results. Select the required inspection and select **'View/Print'** to view the VIR.



Below is an example of a passed Vehicle Inspection Receipt (VIR)



# STATE OF NEW YORK



## VEHICLE INSPECTION REPORT

Print Date: 6/13/2014 11:02:42 AM    Inspection Date: 6/13/2014 11:00:47 AM    Inspection Type: Initial Inspection    Version: 14.04.08


|                        |             |                   |                |                 |               |            |
|------------------------|-------------|-------------------|----------------|-----------------|---------------|------------|
| <b>VEHICLE DETAILS</b> | <b>VIN</b>  | 3C6UR5CL3DG515724 | <b>MODEL</b>   | Ram Pickup 2500 | <b>FUEL</b>   | D          |
|                        | <b>YEAR</b> | 2013              | <b>PLATE</b>   | 123ASD          | <b>WEIGHT</b> | 8501-10000 |
|                        | <b>MAKE</b> | Ram               | <b>MILEAGE</b> | 12,345          | <b>EIR #</b>  | N/A        |

|                           |                          |               |            |                       |            |
|---------------------------|--------------------------|---------------|------------|-----------------------|------------|
| <b>INSPECTION RESULTS</b> | <b>Inspection Result</b> | <b>Safety</b> | <b>OBD</b> | <b>Sticker Number</b> | <b>Fee</b> |
|                           | PASS                     | PASS          | N/A        | SE 10192363           | 10.00      |

**CONSUMER INFO**

**Congratulations, your vehicle has passed its annual New York State inspection. Please retain this receipt for your records. You may be required to present this receipt in order to renew your vehicle registration.**

**VEHICLE INSPECTION QUESTIONS:**  
 For additional information please contact the Department of Motor Vehicles at website address:  
<http://www.dmv.ny.gov>  
 Or by telephone number: 518-486-9786.



|                        |                         |                             |                              |                         |
|------------------------|-------------------------|-----------------------------|------------------------------|-------------------------|
| <b>STATION DETAILS</b> | <b>Inspector Number</b> | <b>NYVIP2 Record Number</b> | <b>Online/Offline</b>        | <b>DMV Record Match</b> |
|                        | 14TB                    | 64                          | Online                       |                         |
|                        | <b>Facility Number</b>  | <b>Facility Name</b>        | <b>Facility Phone Number</b> | <b>Analyzer Number</b>  |
|                        | 7116588                 | TEST RECORD FIVE            | 5182033315                   | NY00000014              |
|                        | <b>Address</b>          | 98 NIVER STREET, COHOES     |                              |                         |



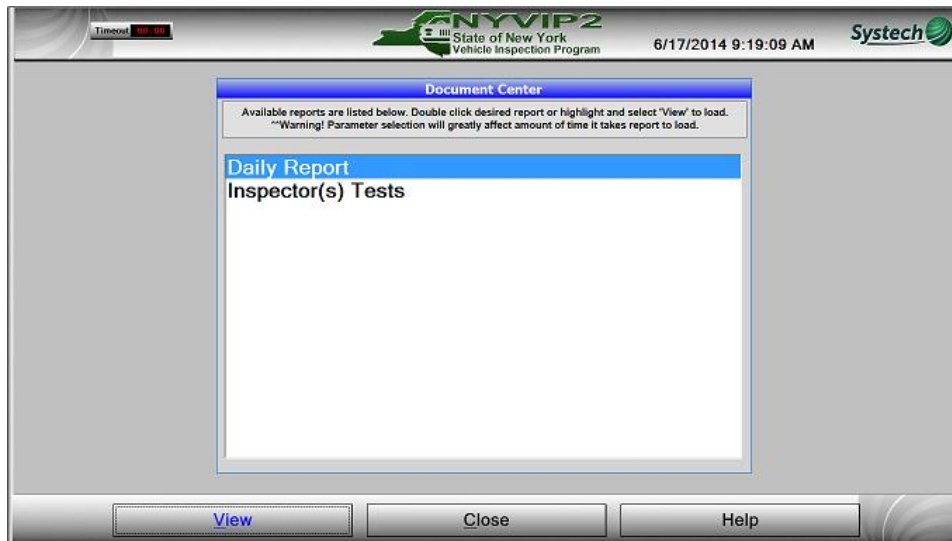
# 16-3 Daily Report

## Daily Inspection Report

From the **Main Menu**, select **2.Utilities Menu** then select **1. Documents and Information**, and then select **3. Daily Reports**

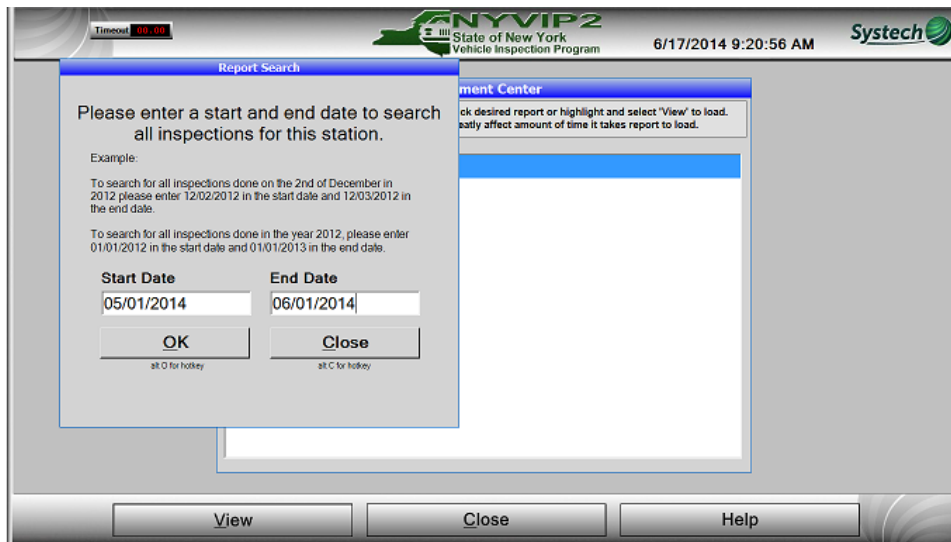


Highlight **Daily Reports** and select **'View'**

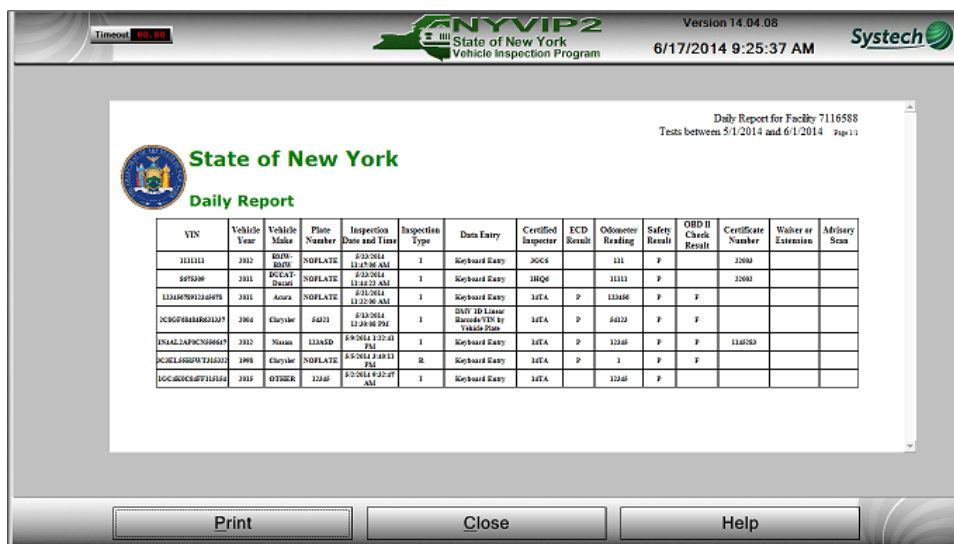


Change the **Start Date** and **End Date** to reflect the range that is to be printed.

**Note:** “To search for all inspections done on the 2<sup>nd</sup> of December in 2012 please enter 12/02/2012 in the **Start Date** and 12/03/2012 in the **End Date**.”



Select **'OK'**. The message **“Loading Reports, Please wait ....”** will display. Once the report is generated and displayed on the screen, select **'Print'** to print the report or **'Close'** to return to the Document Center.



Below is an example of a of Daily Report



## State of New York

### Daily Report

| VIN               | Vehicle Year | Vehicle Make | Plate Number | Inspection Date and Time | Inspection Type | Data Entry     | Certified Inspector | ECD Result | Odometer Reading | Safety Result | OBD II Check Result | Certificate Number | Waiver or Extension | Advisory Scan |
|-------------------|--------------|--------------|--------------|--------------------------|-----------------|----------------|---------------------|------------|------------------|---------------|---------------------|--------------------|---------------------|---------------|
| 1N4AL2AP0CN556647 | 2012         | Nissan       | FY58269      | 4/21/2014 12:52:25 PM    | I               | DMV 2D Barcode | 14TA                | P          | 12345            | P             | P                   | 1145281            |                     |               |
| 1G2ZH57N474267020 | 2007         | Pontiac      | 123ASD       | 4/23/2014 1:06:40 PM     | I               | Keyboard Entry | 14TA                | P          | 12345            | P             | P                   |                    |                     |               |
| 1NXBR32EX32172411 | 2003         | Toyota       | 123456       | 4/25/2014 11:50:02 AM    | R               | Keyboard Entry | 14TA                | P          | 12345            | P             | F                   |                    |                     |               |
| 1NXBR32E772905763 | 2007         | Toyota       | 12345        | 4/25/2014 11:53:11 AM    | I               | Keyboard Entry | 14TA                | P          | 12345            | P             | F                   |                    |                     |               |
| 1NXBR32E772905763 | 2007         | Toyota       | 12345        | 4/25/2014 11:58:22 AM    | R               | Keyboard Entry | 14TA                | P          | 12345            | P             | F                   |                    | Ten-Day Extension   |               |
| 1NXBR32E772905763 | 2007         | Toyota       | 12345        | 4/25/2014 12:00:44 PM    | R               | Keyboard Entry | 14TA                | P          | 12345            | P             | F                   | 1145282            | Waiver              |               |
| 1MEFM55S31A609065 | 2001         | Mercury      | 12345        | 4/25/2014 12:25:11 PM    | R               | Keyboard Entry | 14TA                | P          | 12345            | P             | F                   |                    |                     |               |
| 1GC4K0C84FF115154 | 2015         | OTHER        | 12345        | 5/2/2014 9:32:47 AM      | I               | Keyboard Entry | 14TA                |            | 12345            | P             |                     |                    |                     |               |
| 1N4AL2AP0CN556647 | 2012         | Nissan       | 123ASD       | 5/9/2014 1:22:41 PM      | I               | Keyboard Entry | 14TA                | P          | 12345            | P             | P                   | 1145283            |                     |               |
| 3FRMF65265V136712 | 2005         | Ford         | 12345        | 5/29/2014 4:01:38 PM     | I               | Keyboard Entry | 14TB                |            | 12345            | P             |                     |                    |                     |               |

# 17 NYVIP2 Troubleshooting Guide

## 17-1 PC Issues

### PC Won't Power Up

- ◆ Verify that the computer (PC) power cord is properly connected to the computer and the power strip.
- ◆ Verify that the power switch on the power strip is turned on and illuminates red.
- ◆ Disconnect all cables except the Power cord to the PC and try powering the unit up.
- ◆ If the PC powers on with nothing connected, connect peripherals one at a time to see which one is causing an issue with the unit. If the PC doesn't power on with a specific peripheral connected contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.
- ◆ If the PC does not power on once all peripherals have been disconnected contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

### Fan Error or PC has a noisy fan

- ◆ Contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

## PC Error Messages

- ◆ If any of the following error messages are displayed on the analyzer contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.
  - **Registry Error**
  - **SYSTEST.EXE Error**
  - **Unable to connect to local database**
  - **Hard drive not found**

## 17-2 Monitor Issues

### Blank Screen

- ◆ Verify that the Monitor to PC cable is properly connected to the PC and the monitor.
- ◆ Verify that the monitor power cord is properly connected to the monitor and the power strip.
- ◆ Verify that the monitor power indicator light is on. This will be yellow if the PC is not on or blue if the PC power is on.
- ◆ If the light is not on, press and release the power button on the monitor.
- ◆ If the power light still does not illuminate or is yellow contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

## 17-3 Test Authorization Issues

### Test Authorization Lockout/Not downloading from VID

If unable to download Test Authorizations purchased from [www.NYVIP.org](http://www.NYVIP.org) try the following:

- ◆ Perform a Full Data File Refresh
- ◆ If the analyzer has Test Authorizations in inventory but has a Test Authorization lockout, initiate an inspection to clear the lockout.
- ◆ If the analyzer still has a Test Authorization lockout contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**

## 17-4 OBDII Issues

### Wired/Wireless OBDII

- ◆ **OBDII DLC Lockout/NYVIP2 Connector Suspension – Refer to Section 12 Lockouts-OBDII DLC Lockout/NYVIP2 Connector Suspension**

## OBDII Vehicle Communication Failure

- ◆ Disconnect the OBDII cable from the back of the computer
- ◆ Shut down the analyzer
- ◆ Disconnect all cables from the OBDII Interface
- ◆ Check the cables for any damage
- ◆ Verify that pins on the DLC connector are not bent, broken, or missing
- ◆ Connect all cables to the OBDII interface and computer.
- ◆ Start the analyzer.
- ◆ If the OBDII is still failing to communicate please contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

## 17-5 Barcode Scanner Issues

### Wireless barcode scanner

#### Not Responding

Verify the barcode scanner base charger is functioning:

- ◆ Verify that all cables are securely connected.
- ◆ When connected properly the light on the charger will be red.
- ◆ When the barcode scanner is in the charging base the light will change to half red and half green.
- ◆ Press the Honeywell button on the charging base to verify that the barcode scanner beeps. If the lights on the barcode scanner charging base are illuminated and has responded with a beep, perform the following steps.

From the **Main Menu** select:

- ◆ **2. Utilities**
- ◆ **4. Configuration**
- ◆ **4. Configure Serial/Communications Ports**
- ◆ In box labeled All Ports, confirm that the XENON 1902 – WIRELESS barcode scanner is listed.
- ◆ If the barcode scanner is not listed and the update box is not grayed out click on the **'Update'**. If **'Update'** option is grayed out (or clicking on update didn't resolve the issue) scan the default barcode below:



- ◆ Confirm that the XENON 1902 – WIRELESS barcode scanner is now listed. If not listed the system may need to be rebooted.
- ◆ Confirm the configuration is now correct.
- ◆ If still not functioning contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**.

### **Wired barcode scanner is not responding**

- ◆ Disconnect the barcode scanner cable from back of the computer.
- ◆ Disconnect the barcode scanner cable from the base of the barcode scanner handle
  - Locate the small hole on the bottom of the barcode scanner handle. Insert a paperclip to release the cable from the base of the barcode scanner (do not use anything other than a paperclip to disconnect the cable).

**Do not attempt to separate the coiled cable from the extension cable. This could result in the cancellation of the warranty.**

- ◆ Check cable for any physical damage, any cuts or breaks in the wire casing or exposed wires.
- ◆ Shut down the analyzer.
- ◆ Connect the barcode scanner cable to the back of the PC
- ◆ Power on the analyzer

If still not responding re-flash the barcode scanner by scanning the default barcode below:



If still not responding contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**

# 17-6 Communication Issues

## Unsuccessful communication using a Dial-Up Connection

- ◆ Confirm phone cable is securely connected in the proper phone port
- ◆ If it is not then secure the connection and check VID Communication –**Refer to Section 15 Lockouts- Administrative Lockout for No Contact**

If cable is securely connected and still failing VID Communication:

- ◆ Unplug phone cable from the back of the computer and plug it into an analog phone to confirm the phone line has a good dial tone and that there is no noise or static on the line.
- ◆ If there is no dial tone or there is noise or static on the line, contact the phone service provider and have the problem corrected.
- ◆ If the phone line has a dial tone and no interference, plug the phone line back into the computer and confirm that the Dial Up connection is configured properly.

Confirm that Dial-Up is configured properly:

From **Main Menu** select:

- ◆ **2. Utilities Menu**
- ◆ **5. Communications**
- ◆ **3. Network Settings**
- ◆ **1. Enable Dial Up**

Answer the following questions that are displayed:

- ◆ “Is station in “518” area code”? Select **‘Yes’** or **‘No’**
- ◆ “Is a prefix needed to dial out”? Select **‘Yes’** or **‘No’**. If yes, enter the appropriate prefix and select **‘Save’**
- ◆ If the analyzer is not able to make a successful connection, contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

## Unsuccessful Communication using a Wireless/Broadband Connection

- ◆ If using a wired internet connection (LAN line), verify that the CAT-5 cable is securely connected to the correct port (Ethernet port) in the back of the computer and to the router/modem. If there is a valid connection the port on the back of the computer should illuminate green and amber
- ◆ If using a wireless internet connection, verify that the wireless adapter is plugged into the correct port in the back of the computer and that the blue light is flashing

- ◆ Reboot the modem/router
- ◆

Confirm that wireless/broadband connection is configured properly:

From **Main Menu** select:

- ◆ **2. Utilities Menu**
- ◆ **5. Communications**
- ◆ **3. Network Settings**
- ◆ **3. Enable Broadband or 4. Enable Wireless**

### Wireless Connection

- ◆ Select '**Refresh Wireless Networks**' to display available networks
- ◆ Select Facility's SSID from the box on the right side of the screen
- ◆ Enter the Wireless Password
- ◆ Select '**Save**'

If using a Static IP address for Wired or Wireless Internet Connection:

- ◆ Select Yes (Advanced)

Enter the address for each of the following into the appropriate text box:

- ◆ IP address
- ◆ Default Gateway
- ◆ Preferred DNS server
- ◆ Alternate DNS server
- ◆ Click on "**Save Network Settings**"

A "**Connection is Successful**" message will appear.

- ◆ Confirm that communication is successful by checking VID Communication –**Refer to Section 15 Lockouts- Administrative Lockout for No Contact**
- ◆ If system still fails to communicate contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**.



# 17-7 Inspector ID Issues

## Inspector Not Found

Add inspector using the Add/Remove inspector from analyzer:

- ◆ **3. Station Facility Menu**
- ◆ **3. View/Add Registered Inspectors**

Inspectors can also be added or removed from the Opus website at [www.NYVIP.org](http://www.NYVIP.org)

## Password Invalid

- ◆ Contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**

# 17-8 Sticker Issues

## “Entered Sticker Range is not Valid or Present” message

- ◆ Perform a Full Data Refresh to verify that the sticker books were downloaded.
- ◆ If the stickers are still not displaying contact Opus Inspection at **1-866-OB-D-TEST (1-866-623-8378)**

## For any other sticker related information

- ◆ Refer to section **11 Sticker Inventory**

# 17-9 Printer Issues

## Printer Status is Offline/Not Ready

When a printer is ready and online it should have two green lights illuminated on the top of the printer. The first light indicates power, the second shows that the printer is online. The next two lights are error lights. If either of the error lights are illuminated the printer is not ready and will cause a printer lockout.

If the printer is offline/not ready:

- ◆ Press the online button on the top of the printer.

If the printer is still offline/not ready:

- ◆ Verify that the printer USB cable is properly connected to the printer and the computer.
- ◆ Verify that the power cord is properly connected to the printer and the power strip.

- ◆ Verify that the printer power switch that is located on the left panel of the printer is on.
- ◆ Verify that the correct model of printer is selected as the default printer (OKIB4400).

From the **Main Menu** select:

- ◆ **2. Utilities**
- ◆ **3. Configuration**
- ◆ **3. Printer Selection**
- ◆ Confirm that the OKIB4400 is highlighted in both the Default and VIR Printer Fields. If they are not, highlight both and select **'Save'**

If the printer is offline/not ready: Contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**.

### **Paper Jam**

- ◆ Pull out the paper tray. Make sure there is paper in the tray. Check for any paper hanging down from the bottom. Gently pull any paper that is jammed.
- ◆ Open the top of the printer. Take out the toner and drum and make sure there is no paper underneath or in the back of the printer.

### **To Replace/Order Toner**

- ◆ Refer to section **14 Toner Replacement**

### **If all printer lights are flashing**

- ◆ Contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**

### **Printing Black Pages or Black Streaks on the Page**

- ◆ Contact Opus Inspection at **1-866-OBD-TEST (1-866-623-8378)**

# 18 Appendices

## Appendix A: NYVIP2 Acronyms

### NEW YORK VEHICLE INSPECTION PROGRAM (NYVIP2)

#### Acronyms

| Term/Acronym    | Definition/Phrase                                  |
|-----------------|--|
| 1D              | Linear barcode                                     |
| 2D              | 2 dimensional bar code                             |
| AIM             | Automatic Identification Manufacturer              |
| ASCII           | American Standard Code for Information Interchange |
| BAR             | California Bureau of Automotive Repair             |
| BIOS            | Basic Input Output System                          |
| CAL ID          | Calibration Identification Number                  |
| CARB            | California Air Resource Board                      |
| CAT             | Catalytic Converter                                |
| CNG             | Compressed Natural Gas                             |
| CVIS (Analyzer) | Computerized Vehicle Inspection System             |
| CVN             | Calibration Verification Number                    |
| COTS            | Common Off The Shelf (Software)                    |
| DEC             | NYS Department of Environmental Conservation       |
| DLC             | Diagnostic Link Connector                          |
| DMV             | NYS Department of Motor Vehicles                   |
| DTC             | Diagnostic Trouble Code                            |
| ECD             | Emission Control Device                            |
| ECM             | Electronic/Engine Control Module                   |
| ECU             | Electronic Control Unit                            |
| EPA             | US Environmental Protection Agency                 |
| F               | Fail   |

|      |   |
|------|---|
| GUI  | Graphical User Interface                    |
| GVW  | Gross Vehicle Weight                        |
| HDV  | Heavy Duty Vehicle                          |
| I/M  | Inspection/Maintenance                      |
| KOEO | Key On, Engine Off                          |
| KOER | Key On, Engine Running                      |
| LDT  | Light Duty Truck                            |
| LDV  | Light Duty Vehicle                          |
| LPG  | Liquefied Petroleum Gas                     |
| MIL  | Malfunction Indicator Light/Lamp            |
| MY   | Model Year                                  |
| NYMA | New York Metropolitan Area                  |
| OBD  | Onboard Diagnostics                         |
| P    | Pass  |
| PCM  | Powertrain Control Module                   |
| PCV  | Positive Crankcase Ventilation              |
| PID  | Parameter Identification                    |
| SAE  | Society of Automotive Engineers             |
| TCM  | Transmission Control Module                 |
| TLC  | New York City Taxi and Limousine Commission |
| VID  | Vehicle Inspection Database                 |
| VIN  | Vehicle Identification Number               |
| Y/N  | Yes/No Response                             |

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