Manual Version 1.0

(Software V1.2)

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Prepared by SGS Testcom, Inc.

INTRODUCTION

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CHAPTER 1: INTRODUCTION

Parsons/SGS Testcom Inc. (the Contractor) has developed the NJ2009 Emissions and Safety Inspection System (NJ2009 Workstation) for use in the New Jersey inspection program. The NJ2009 Workstation transfers inspection data to the VID (Vehicle Inspection Database) using the internet. Stations are responsible for providing the internet connection for their workstation (either high speed or dial-up).

The NJ2009 workstation components are a *computer*, *monitor*, *keyboard*, *mouse*, *printer and cart* plus *six peripheral devices*.

- First of these devices is the **Bar Code Scanner**. The Bar Code Scanner is used to easily input information into the computer.
- Second, the **OBDII Scan Tool** is used to connect to 1996 and newer vehicles to collect important emission related information from the vehicle's computer.
- Third, a **High speed internet or dial-up internet connection** to connect the NJ2009 to the Contractor computers.
- Fourth, is a **Biometric fingerprint reader** for inspector login.
- Fifth, a **Gas cap tester** to test 2000 and older vehicle gas caps. 2001 and newer vehicle gas caps are tested using the OBDII inspection tests.
- Sixth, the WiFi antenna.

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OPTIONAL EQUIPMENT

In addition to the "base unit", stations may also purchase the optional

- Gas Analyzer
- Diesel Opacity Meter
- Touch Screen Monitor
- Cart Cover

The equipment was designed to provide the most efficient and accurate way to perform inspections and transmit the inspection information to the State.

Future revisions of this manual will be based on the continued development of the system and comments from users. Figures 1.1 thru Figure 1.7 illustrate the NJ2009 workstation components.

NJ2009 WORKSTATION



FIGURE 1-1: NJ WORKSTATION

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LENOVO PC WITH LCD MONITOR, KEYBOARD, AND OPTICAL MOUSE



FIGURE 1-2: LENOVO PC WITH LCD MONITOR, KEYBOARD, AND OPTICAL MOUSE

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LASER PRINTER

The Lexmark e260d series laser printer offers high quality output, high speed printing up to 35 pages per minute and 50,000 pages per month duty cycle.



FIGURE 1-3: LEXMARK LASER PRINTER

BAR CODE SCANNER

The Hand Held Product Honeywell 4600g General Purpose Reader Bar code scanner features advanced area imaging for improved windshield scanning and support all common 1D and PDF417 symbologies, and has a 15' cord.

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FIGURE 1-4: BAR CODE SCANNER

OBDII INTERFACE MODULE

The Vetronix OBDII Interface Module is a ruggedized version of their popular scan tool and includes a heavy-duty Data Link Connector (DLC) cable.



FIGURE 1-5: OBDII INTERFACE MODULE

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GAS CAP TESTER

The Waekon FPT27 Fuel Cap Tester features automated testing and includes all adapters.



FIGURE 1-6: GAS CAP TESTER

BIOMETRIC FINGERPRINT READER

The **Biometric Fingerprint Reader (Secu Gen Hamster Plus)** this device will be used to identify and authenticate technicians, inspectors and other personnel, features include:

- High-quality, rugged, maintenance-free fingerprint sensor with ultraprecise 500 DPI resolution,
- Auto-on automatically turns on sensor when it detects a finger,
- Smart Capture ensures quality fingerprint scanning of difficult fingers,
- Hardened fingerprint contact area that's resistant to scratches, impact, corrosion and electrostatic discharge (ESD),
- Compact and ergonomically designed t o work with any finger or thumb,
- Integrated finger guide,
- Removable, weighted stand, and

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• USB connection.



FIGURE 1-7: BIOMETRIC FINGERPRINT READER

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GENERAL HELP/PHONE NUMBERS

Workstation questions, Inspection procedure questions:

Please Call the NJ2009 Help Desk at 888-6NJ-2009 (888-665-2009).

NJ2009 WORKSTATION HELP

Throughout the NJ2009 Workstation software application, Help Messages are available in critical areas to provide additional information to the operator by pressing the **<F1> key.** On-screen messages will direct you to the correct help function.

ABOUT THIS OPERATORS MANUAL

This manual is intended to provide operating information for new users of the NJ2009 Workstation. Comments about this manual should be directed to the NJ2009 Help Desk at 888-6NJ-2009 (888-665-2009).

SAFETY INFORMATION

WARNING SYMBOLS

Throughout this manual, safety warnings and instructions will be displayed. The symbols below are used to identify information and hazards associated with a procedure or process. Be familiar with these symbols and read the warnings and instructions offered.



This is the electrical warning symbol. It indicates the danger of electrical shock that could result in personal injury to the operator or bystanders.

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A warning indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury to the operator or bystanders. Other symbols inside the triangle may identify specific hazards.

CAUTION!

Caution indicates that a potentially hazardous situation may exist and, if not avoided, could result in moderate or minor injury to the operator or bystanders.

Information

The information symbol indicates that helpful information or instructions follow. Pay special attention to this information to avoid damage to the equipment or unnecessary delays.

SAFETY INSTRUCTIONS

RISK OF ELECTRIC SHOCK



Connect the power cord to a properly grounded electrical outlet.

DO NOT remove the power cord-grounding pin.

DO NOT operate electrical equipment around water.

DO NOT operate the NJ2009 equipment during an electrical storm.

DO NOT operate electrical equipment with damaged power cords.

Inspect electrical cords for damage on a regular basis.

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Electric shock can cause serious injury!!!!

RISK OF PERSONAL INJURY



Be aware that many hazardous conditions may exist in the shop environment.

Use caution when in the work area.

Wear Personal Safety Devices (PSD) when you are in the work area.

Keep the work area clean and free from hazards

SYSTEM REQUIREMENTS

Power

o Input – 115 VAC, 60 Hz, \pm 12 volts

Operating Range

- Temperature 35°F to 110°F
- Humidity 0% 100%, non-condensing

Internet Connection

- High speed or dial-up internet service
- Local Area Network (LAN) cable with RJ45 or phone line connection
- No firewalls or other device that would restrict access to the internet

INTRODUCTION

For your safety, read this manual thoroughly before operating the NJ2009 Workstation. The inspection equipment is intended to be operated by professional automotive technicians. Pay special attention to safety messages presented throughout this manual. This manual provides information about the proper care and safe operation of the NJ2009 Workstation. Improper operation of the equipment may result in possible damage to the equipment and/or personal injury.

BEFORE USING THE NJ2009 EMISSIONS AND SAFETY INSPECTION EQUIPMENT, ALWAYS REFER TO AND FOLLOW ALL SAFETY INSTRUCTIONS AND PROCEDURES PROVIDED.

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Chapter 2 Main Menu

MAIN MENU

CHAPTER 2: MAIN MENU

The NJ2009 Workstation automatically opens the Main Menu when the workstation is powered on. It will take a couple minutes for the software to load before you see the Main Menu Screen.

	ISNS	v1.0.2515 12/15/2009.04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	



The main menu is comprised of the following menus:

(1) Vehicle Inspection Menu - Access to the following menus:

• (1) Inspection options/ Perform Inspections



MAIN MENU

- (2) Reprinting VIRs
- (3) Provide replacement stickers
- (4) DLC Locator Reference
- (5) Training features and operator manual

(2) Diagnostic Menu – Access to the following menus:

- Diagnostic OBDII scan tool
- Opacity testing (if equipped for diesel testing)
- Gas emissions testing (if equipped with a gas bench)

(3) Equipment Checks and Calibrations Menu – Access to the following menus:

- (1) Calibrate/check all
- (2) Printer and Barcode scanner check
- (3) Gas Analyzer calibration
- (4) Gas Analyzer leak check
- (5) Gas Cap calibration
- (6) Smoke Meter calibration

(4) Utilities Menu – Access to the following menus:

- (1) Data file refresh
- (2) Workstation status
- (3) Printer setup
- (4) Request remote help

MAIN MENU

- (5) Check internet connection
- (6) Check for dial tone (if using a dialup internet connection)
- (7) Browse internet
- (8) Calibrate touchscreen (if you purchased a touchscreen)
- (5) View Messages View State and Contractor Messages
- (6) Service Menu (Field Service Rep access only)

(7) Workstation Menu – Access to the following menus:

- (1) Perform a data file refresh
- (2) Change the workstation menu access password
- (3) Enter equipment maintenance information
- (4) Update workstation software from a CD
- (5) Setup the workstation internet settings
- (6) Check the internet connection
- (7) Initialize or closeout the workstation
- (8) Print station reports
- View station information

(8) State Menu (State Inspector access only)

(9) Repair Data Entry - Provides a form to enter vehicle emission repair information:

Shutdown - CAUTION! Shuts down the workstation safely. NEVER SHUT DOWN THE WORKSTATION BY UNPLUGGING THE POWER CORD OR SWITCHING OFF THE POWER STRIP BEFORE USING THE SHUTDOWN MENU OPTION AND WAITING FOR THE COMPUTER TO POWER DOWN.

MAIN MENU

DAMAGE TO WORKSTATION SOFTWARE MAY RESULT. YOU MAY BE BILLED FOR REPAIRS.

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Chapter 3 Workstation Operation

WORKSTATION OPERATION

CHAPTER 3: NJ2009 WORKSTATION OPERATION

TURNING THE WORKSTATION ON

- 1. Connect the power cord to a grounded electrical outlet.
- Switch the power switch on the back of the workstation to the On position.
 The power switch will illuminate.
- 3. Open the PC access panel located on the front of the workstation.
- 4. Press the PC power button and release. The green power indicator will illuminate.
- 5. Verify that the monitor is turned on. The power indicator should be illuminated.
- Wait for the workstation application to load. This may take a couple minutes. The screen will display a progress bar. When the application is loaded, the Main Menu will be displayed.

WORKSTATION OPERATION CAUTIONS

- 1. **MEVER** operate the workstation in a wet area.
- 2. **MEVER** operate the workstation with the rear compartment door open.

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WORKSTATION OPERATION

- 3. **CAUTION! NEVER** unplug the workstation power cord with the PC turned on.
- 4. **CAUTION! NEVER** unplug the workstation to abort an inspection.

System files can be damaged resulting in workstation lockout.

 CAUTION! NEVER turn the PC off with the application running. System files may be damaged resulting in workstation lockout.

SHUTTING DOWN THE WORKSTATION

 ALWAYS use the Shutdown selection on the Main Menu to shut down the workstation.

LOADING NEW SOFTWARE

Software updates will usually be downloaded over the internet to your workstation automatically. Follow any instructions displayed when updates are being downloaded. NEVER turn off the PC or unplug the power cord when updates are being downloaded.

In the event a software update cannot be downloaded over the internet, a CD will be provided.

- 1. Open the PC access door on the front of the workstation.
- 2. Press the CD drive button to open the CD drawer.
- 3. Insert the CD and press the CD drive button to close the CD drawer.
- 4. Select (7) Workstation Menu from the Main Menu.
- 5. Enter the station password and select OK.
- 6. Then, select (4) Update Software from CD.

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WORKSTATION OPERATION

7. When the update is complete, remove the CD, and store it for safety. The CD may be needed again if a system re-image is required. Do Not discard the CD.

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Chapter 4

Vehicle Inspection Menu (1)
VEHICLE INSPECTION MENU (1)

CHAPTER 4: VEHICLE INSPECTION MENU (1)

The NJ2009 Workstation automatically opens the Main Menu when the workstation is powered on. It will take a couple minutes for the software to load.

VEHICLE INSPECTION MENU

STEP 1. Select <(1) Vehicle Inspection Menu>

Aain Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 4-1: MAIN MENU

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VEHICLE INSPECTION MENU (1)

(1) PERFORM INSPECTION

STEP 2. Select (1) Perform Inspection from the (1) Vehicle Inspection Menu to

perform inspection.

/ehicle Inspection Menu			
	(1) Perform Inspection	Ē.	
	(2) Reprint VIR		
	(3) Replacement Sticker		
	(4) DLC Location Reference		
	(5) Training		
	(0) Main Menu		

FIGURE 4-2: VEHICLE INSPECTION MENU

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VEHICLE INSPECTION MENU (1)

STEP 3. Follow the screen instructions and enter or scan your inspector number

and access code or if the fingerprint reader is active, place your index

finger on the fingerprint reader screen.

Note, for Bus or other inspection performed at a mobile facility, the

application will prompt for inspection location.

STEP 4. Click on OK to continue.

VJINSPECTIONS		\$	12	v1.0.2515 2/15/2009 01:37
	Please Log in			
1. En	ter or scan badge number 1			
	(0) Main Menu	ОК	Cancel	

FIGURE 4-3: VEHICLE INSPECTION MENU LOG IN SCREEN MANUAL ENTRY

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VEHICLE INSPECTION MENU (1)

STEP 5. Scan the vehicle VIN barcode

• Select <Unable to Scan> if you are unable to scan the vehicle

VIN.

Scan Vehicle VIN			v1.1.2564 12/16/2009 03:14
	Please scan the vehicle VIN barcode.		
Figure 4-4: Scan Vehicle VIN Scre		Unable to Scan	Cancel Inspection

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VEHICLE	INSPECTION	MENU ((1)
---------	-------------------	--------	-----

STEP 6. If unable to scan, enter vehicle VIN information, and Select <Next> to

continue.

		v1 1.2564 12/16/2009 03:15
Vehicle VIN Manual Entry		
Vahicla VIN-		
	Next	Canaal
	Next	Cancel

FIGURE 4-5: VEHICLE VIN MANUAL ENTRY

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VEHICLE INSPECTION MENU (1)

STEP 7. Scan Registration Document.

If you are unable to scan the registration barcode or the document is missing, Select Unable to scan to enter the VIN manually and continue to Step 8.

• Select **Document Missing** and continue to **Step 9**.

Scan Registration Document	
Please scan the registration document barcode.	
Unable To	o Scan Document Missing

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VEHICLE INSPECTION MENU (1)

STEP 8. Unable to scan enter document VIN Manually.

		v1 1 2564 12/16/2009 03:17
Document VIN Manual Entry		
Document VIN:		
	Next	Cancel

FIGURE 4-7: DOCUMENT VIN MANUAL ENTRY

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VEHICLE INSPECTION MENU (1)

STEP 9. License Plate Manual Entry, Enter License plate number, choose State,

and **Select <Next>** to continue.

		V0.1:1875 10/08/2009 10:51
License Plate Manual Entry License plate State	New Jersey	Next

FIGURE 4-8: LICENSE PLATE MANUAL ENTRY

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VEHICLE INSPECTION MENU (1)

STEP 10. Scan failed VIR barcode if motorist has one.

- For initial inspection, Select "No failed VIR".
- For a reinspection, Scan the failed VIR.
- For an abort, Select "Cancel inspection".

STEP 11. Select "No Failed VIR" to continue.

	JNS		v1 1 2564 12/16/2009 03:23
Scan Failed VIR			12/10/2009 00.20
	Please scan the failed VIR barcoc	de if the motorist has one.	
		No Failed VI	Cancel Inspection
ure 4-9: Failed VIR Che	CK SCREEN		
reated on: October 26	2009 Bage :	NJ200	9 Operators Man

VEHICLE INSPECTION MENU (1)

STEP 12. Next, select the month and year of the old inspection sticker (sticker

currently on vehicle). If there is no old sticker, leave the Month and Year $% \left({{{\left[{{{\rm{T}}_{\rm{T}}} \right]}}} \right)$

Enter Old Sticker Date		∨0 1.1347 07/26/2009 05:59
	Please enter the old sticker date	
	Month: Year:	
		Next

blank. Select Next to continue.

FIGURE 4-10: ENTER OLD STICKER DATE SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 13. Vehicle information is populated, see figure below.

- Enter the Vehicle information in the appropriate fields.
- Click <Next> to continue to next Step.
- To Change VIN/Plate select option and repeat Step 5 Step 13.

cle Informatio	n				
Vehicle VIN:	19XFA16819E000958		GVWR:		
Document VIN:	19XFA16819E000958		Transmission:		*
License plate:	123ABU		Fuel type:		 V Unite: U
Model year:	2009		Displacement:		Units: [] ¥
Madel	HUNDA	×	Cylinders:	4	Y
Catogory	* Non Commercial Vehicle (7)	*	Odomotor:		

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VEHICLE INSPECTION MENU (1)

STEP 14. Next, Selected Tests are displayed that will be performed. Then select

<OK> to continue.

Selected Tests		123A
Safety test	Standard IM Safety Test	
Emissions test: Other required tests:	OBDII Test Tamper Check Liquid Leak Check Visible Smoke Test MIL Check	
		OK

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VEHICLE INSPECTION MENU (1)

STEP 15. Next, Summary (Credentials Test) will be displayed, to change any item

from Pass to Fail select the menu option and make the required change.

(See example on the following page)

STEP 16. If no change is needed select **Complete** to continue to **Step 17.**

ummary redentials Test			1234
	(1) Driver's License	Pass	
	(2) Registration	Pass	
	(3) Insurance Documents	Pass	
	(4) Plates	Pass	
	(5) Odometer	Pass	
	Summary Res	sult Pass	

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NEW JERSEY OPERATORS INSTRUCTION MANUAL VEHICLE INSPECTION MENU (1) Example: To change from Pass to Fail, Select (1) Driver's License and Select "Drivers license: Failure" as in Figure 4-14. (1) Driver's License Pass 7 NJ INSPECTIONS v1.0.2515 12/18/2009 01:58 2009 **Driver's License Credentials Test** Driver license: Failure R OK Cancel

FIGURE 4-14: (1) DRIVER'S LICENSE SUMMARY CREDENTIALS

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VEHICLE INSPECTION MENU (1)

STEP 17. Pre-Test Inspection Standard IM Safety Test is displayed – Inspect the

vehicle for any conditions that could be a risk to the operator or vehicle during the inspection and test routines, such as leaking fluids, leaking/broken exhaust system, frayed drive belts, and unusual noises.

• Are the vehicles safe for testing? Select, Yes or No?

	NS		v1.0.2515 12/18/2009 02:02
Pre-Test Inspection Standard IM Safety Test			2009
In ope leaki	spect the vehicle for any conditions that could erator or vehicle during the inspection and test ng fluids, leaking/broken exhaust system, frave unusual noises.	be a risk to the routines, such as ed drive belts, and	
	Is the vehicle safe for testing?		
		Ves	No

• Select <Yes> and continue to next step.

FIGURE 4-15: PRE-TEST INSPECTION SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 18. Summary Standard IM Safety Test, select each Safety Test option that

does not pass the safety test.

Example: Select - (1) Safety Equipment, and continue to next step.

Summary Standard IM Safety Test			123AB
[(1) Safety Equipment	Pass	
	(2) Steering/Suspension	Pass	
[(3) Brakes	Pass	
	(4) Exhaust System	Pass	
[(5) Miscellaneous	Pass	
Γ	(6) Clarification		

FIGURE 4-16: SUMMARY SAFETY TEST SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 19. From the Safety Equipment Menu select equipment to change.

Example: Select (1) Lights, go to next step.

NJ INSPECTIS Safety Equipment	NS			v1.0.2515 12/18/2009 02:05 2009
Standard IM Safety Test				
_	(1) Linkto	Dava		
	(1) Lights	Pass		
	(2) Glass/Mirrors	Pass	•	
	(3) Tires/Wheels	Pass	•	
1	(4) General	Pass	•	
	Summary Res	ult Pass		

FIGURE 4-17: SAFETY EQUIPMENT STANDARD IM SAFETY TEST SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 20. Lights Safety Test, select all those that apply and click <OK> to return to

the Summary Menu above in Step 18. Then select <Complete> to continue to next

step.

	v1 0.2515 12/18/2009 02:08
Lights Standard IM Safety Test	2009
 Headlights totally inoperative Tail lights - both out 3rd stoplight is out Stop lights - all lights out Stop light(s) out or missing Turn/warning signal out or missing Turn/Warning Lights: other failure Marker/Clear/Reflector: Failure Wiring/Switches: Failure Headlight rejection: left high/low Headlights: Advisory Stop lights: other failure 	
hS	OK Cancel

FIGURE 4-18: STANDARD IM SAFETY TEST - LIGHTS OPTIONS

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VEHICLE INSPECTION MENU (1)

- STEP 21. Begin Catalytic Converter Visual Inspection (Tamper Check), was this vehicle originally equipped with a catalytic converter as manufactured? Select Yes or No.
- STEP 22. If Yes, Select <Yes> and continue to Step 24.
- STEP 23. If No, Select <No> and continue on to Step 26.

		v1.1.2564 12/16/2009 03:45
Begin Catalytic Converter Visual Inspection		123A
Was this vehicle originally equipped with a cat	alytic converter as manufactured?	
	Voc	No

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VEHICLE INSPECTION MENU (1)

STEP 24. Next, Perform Catalytic Converter Visual Inspection (Tamper Check)

• Is this vehicle equipped with a correctly installed catalytic

converter?

- Select Yes or No.
- STEP 25. If <Yes> continue on to Step 26.

			v1.1.2564 12/16/2009.03	:46
Perform Catalytic Converter Visual Inspection			12	23AE
Is this vehicle equipped with a correctly installed catalytic	converter?			
		Yes	No	

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VEHICLE INSPECTION MENU (1)

- STEP 26. Next, Perform Leak Check (Liquid Leak Check).
- **STEP 27.** Examine the vehicle for visible liquid leaks and indicate if the vehicle passes or failed the liquid leak check.
- STEP 28. Check for liquid leaks and select Pass or Fail.
 - Selecting **<Pass> or <Fail>** will bring you to the next step.

Регтогт Leak Chec Liquid Leak Check	k				123A
	Please examine the	e vehicle for visible li fails the li	quid leaks and indic quid leak check.	ate if the vehicle passes or	
				Pass	Fail

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VEHICLE INSPECTION MENU (1)

STEP 29. Next, Perform Test (Visible Smoke Test). Follow the on screen

instructions. If there is visible smoke, **select <Fail>**. If there is no visible smoke, **select <Pass>**.

STEP 30. Selecting Pass or Fail will bring you to the next step.

Perform Test Visible Smoke Test		123AB
	 Secure emergency/parking brake, turn all accessories off, set the vehicle to neutral gear Turn the ignition key to start the engine and allow the vehicle to idle until it runs smoothly Slowly increase the engine speed above idle for about 3 seconds Select FAIL if there is visible smoke in the exhaust or crankcase emissions for a period in excess of 3 consecutive seconds. 	
	Otherwise select PASS.	

FIGURE 4-22: PERFORM TEST "VISIBLE SMOKE TEST" SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 31. Next, Key On Engine Off (KOEO) MIL Check. Select Yes or No.

- Select <Yes> and continue on to Step 35.
- If No, continue to Step 32.

V1800 01/06/2010 12.47
MGM123
o the on position but do AIL illumination may be by on for a few seconds. Indicator Light (MIL) inated?
Yes No

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VEHICLE INSPECTION MENU (1)

STEP 32. Turn Key off MIL Check - MIL Flashing or On, turn the key to off

position and press **<Next>** to continue to follow step.

	v1.0.2515 12/18/2009 02:41
Turn Key Off MIL Check	2009
Turn the key to the off "Next	position and press ".
Figure 4-24: Turn Key Off (MIL Check)	Next

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VEHICLE INSPECTION MENU (1)

STEP 33. Next, Key off Timer MIL Check Screen will appear to indicate the time

needed to keep the key in the off position and wait.

STEP 34. Click <Next> and return to Step 31 "Key On Engine Off (KOEO) MIL

Check" screen.

	v1.0.2515 12/18/2009 02:50
Key Off Timer MIL Check	2009
Keep the key in the of	ff position and wait.
Time remaining:	19 Seconds remair
	Next

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VEHICLE INSPECTION MENU (1)

STEP 35. Next, Key On Engine Running (KOER) MIL Check.

- Start the engine.
- Did the MIL go out?
- Select Yes or No.
- Select <Yes> to continue to next step.

Key On Engine Running (KOER) MIL Check	MGM123
Turn the ignition key to star allow the vehicle to idle. MIL be continuous or may sta seconds.	t the engine and illumination may y on for a few
Is the Malfunction Indicat illuminated?	or Light (MIL)
	Yes No

FIGURE 4-26: KEY ON ENGINE RUNNING (KOER)

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VEHICLE INSPECTION MENU (1)

STEP 36. Next, Connect to DLC - If the DLC is located and the OBDII scanner

cable is connected, select <Yes>, and continue to Step 40.

- If you can't locate the vehicles DLC connector, press <F1> to display the location of the DLC connector.
- If the DLC can't be connected, select <No> and continue to Step
 37.

	v1.1.2564 12/16/2009 03:50
Connect to DLC OBDII Test	123ABC
 Turn off the vehicle before of Diagnostic Link Connect Locate the vehicle's OBDII I the workstation OBDII 3. Turn on the vehicle's 	connecting the ter (DLC). DLC and attach cable. engine.
Press F1 for help locating the	vehicle's DLC.
Could the DLC be located and made?	a connection
	Yes No

FIGURE 4-27: CONNECT TO DLC "OBDII TEST" SCREEN

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VEHICLE INSPECTION MENU (1)

STEP 37. If **No**, indicate the reason you are unable to connect to the DLC.

STEP 38. Choose from the drop down menu:

- Damaged
- Missing
- Obstructed

STEP 39. Select <Next> and continue to Step 43.

	v1.0.2515 12/18/2009 03:17
DLC Not Connected Reason OBDII Test	2009
Please indicate the reason you were unable to connect to the DLC:	
Damaged ▼	
*5	
	Next
IGURE 4-28: DLC NOT CONNECTED REASON - OBDII	

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VEHICLE INSPECTION MENU (1)

STEP 40. OBDII Test in progress...

- Select Pass, Fail, Comm Error, or Equipment to reflect OBD readings.
- If <Pass> is selected continue to the next step.

иіци	SPECTION	IS			v1.0 12/17/20	.2515 009 06:19
Test In P OBDII Tes	rogress t					11111
	Wh	at should the s	ubsequent OBI	O read≹ngs refle	ct?	
		Pass	Fail	Comm Error	Equipment Fail	

FIGURE 4-29: OBDII TEST IN PROGRESS

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VEHICLE INSPECTION MENU (1)

STEP 41. Select <Pass>, See test in progress message below.

	JNS	V0.1.1416 08/04/2009 04:41
Test In Progress OBDII Test		123
	Starting OBDII Test	

FIGURE 4-30: TEST IN PROGRESS CONT.

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VEHICLE INSPECTION MENU (1)

STEP 42. Emissions test is now complete.

- **Disconnect the OBDII cable** from the vehicle's DLC connector.
- Select **<OK>** to continue.

	v1.1.2564 12/16/2009 03:51
Emissions Test Complete OBDII Test	123ABC
Turn off the vehicle and disconnect th cable from vehicle's DLC (Diagnosti Connector).	he OBD c Link
	ОК
FIGURE 4-31: EMISSIONS TEST COMPLETE	

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VEHICLE INSPECTION MENU (1)

STEP 43. Gas Cap Checklist (Gas cap Test)

- Follow Gas Cap test questions on the screen and Select Yes or No.
- Select Next to continue.

			v1.0.2515 12/18/2009 12∵33
Gas Cap Checklist Gas Cap Test			1234
1. Are all required gas caps present on the vehicle?	୦ Yes	ି No	
 Is the gas cap accessible? (If locked and key is not available, select No) 	ି Yes	୍ No	
3. Can the gas cap be removed? (If cap is stuck or otherwise unremovable, select No)	ି Yes	ି No	
4. Does the gas cap fit an available adapter?	ି Yes	∘ No	
Gas cap adapter color to be used: No Adapter	r		
			Next
Figure 4-32: Gas Cap Checklist (Gas Cap Test)			

VEHICLE INSPECTION MENU (1)

STEP 44. Gas Cap Test In Progress

- Select Pass, Fail, Device Error, or Timeout to continue.
- Select Pass to continue to next step.

Fest in Progress Gas Cap Test					123
	Should this	gas cap test p	bass or fail?		
	Pass	Fail	Device Error	Timeout	
N					Abort

VEHICLE INSPECTION MENU (1)

STEP 45. Multiple Gas Cap Check

- If Vehicle has another gas cap to test, **Select Yes**, if not **Select No**.
- If Yes, repeat Steps 35 and 36 above.
- Select No if vehicle there are no other Gas Caps and continue to next step.

	NS	v1 0.2515 12/18/2009 12 46
Aultiple Cap Check Sas Cap Test		123
	Does the vehicle have another gas cap to test?	

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VEHICLE INSPECTION MENU (1)

STEP 46. Gas Cap Test Complete

- If test is complete, remove the gas cap from the adapter and reinstall the gas cap(s) on the vehicle.
- Select OK to continue to next step.



VEHICLE INSPECTION MENU (1)

STEP 47. Miscellaneous Emissions Test

Follow instructions on screen and **Select Next** to continue.

	SR	v1.0.2515 12/17/2009 06:25
Miscellaneous Misc. Emissions Test		11111
Comment: Result:	If the vehicle should fail emissions testing for any other reason, please enter it in the text box below and set the result accodringly. If not, please leave the result as "Pass" and click "Next".	

FIGURE 4-35: MISCELLANEOUS EMISSIONS TEST

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VEHICLE INSPECTION MENU (1)

STEP 48. Clarification Emissions

STEP 49. Follow instructions on screen and **Select Next** to continue.

	S v1.0.2515 12/17/2009 06 28	3
Clarification Emissions Clarification	11	111
	L ₃	
	If you would like to enter emissions clarification comments for this inspection, you may do so in the space provided.	
Comment:		
	Next	-1

FIGURE 4-36: CLARIFICATION (EMISSIONS CLARIFICATION)

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VEHICLE INSPECTION MENU (1)

STEP 50. Enter the inspection fee. Select Next to continue.

		v1.1.2564 12/16/2009.03:52
Enter Inspection Fee		
	Enter the fee for this inspection	
		Next

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VEHICLE INSPECTION MENU (1)

STEP 51. Next, the Vehicle Inspection Report (VIR) will print. When the printing is

complete, select **OK** to continue.

	NS	v1.0.2515 12/17/2009 06:32
Inspection Status		
	₽ A	
	Complete	
	Print VIR	

FIGURE 4-38: INSPECTION STATUS "PRINTING VIR" SCREEN

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VEHICLE INSPECTION MENU (1)

The screen will return to the Main Menu.

		v1.0.2515 12/15/2009 04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 4-39: MAIN MENU SCREEN

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REPRINT VIR (2)

(2) REPRINT VIR

STEP 1. Select (2) Reprint VIR from the (1) Vehicle Inspection Menu.

Vehicle Inspection Menu		V1.0.2515 12/15/2009 01:34
	(1) Perform Inspection	
	(2) Reprint VIR	
	(3) Replacement Sticker	
	(4) DLC Location Reference	
	(5) Training	
	(0) Main Menu	

FIGURE 4-40: VEHICLE INSPECTION MENU

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REPRINT VIR (2)

STEP 2. To **Reprint VIR** you must enter into the VIN the VIR reference number.

Select <Done> when complete.



FIGURE 4-41: REPRINT VIR WEBSITE

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TRAINING (1)

(4) DLC LOCATION REFERENCE

STEP 1. Select (4) DLC Location Reference from the (1) Vehicle Inspection

Menu.

/ehicle Inspection Menu		
	(1) Perform Inspection	
	(2) Reprint VIR	
	(3) Replacement Sticker	
	(4) DLC Location Reference	
	(5) Training	
	(0) Main Menu	

FIGURE 4-42: VEHICLE INSPECTION MENU

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TRAINING (1)

STEP 2. DLC Location Vehicle Information Menu, Enter Model year, Make and

Model, Select <Next> to see illustration of the DLC location for your vehicle.

Model year:		
Make: Model:	-	

FIGURE 4-43: DLC VEHICLE INFORMATION ENTRY MENU

TRAINING (1)

STEP 3. DLC Location Reference Map of the location where the DLC is located

for this example vehicle. Note highlighted area, #1 indicating the location.

STEP 4. Select OK to return to the Vehicle Inspection Menu.



FIGURE 4-44: DLC LOCATION MAP

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Chapter 5

The Diagnostics Menu (2)

THE DIAGNOSTIC TEST MENU (2)

CHAPTER 5: THE DIAGNOSTIC MENU (2)

The NJ2009 Workstation automatically opens the Main Menu when the workstation is powered on. It will take a couple minutes for the software to load.

NJINSPECI	IDNS	v1.0.2515 12/15/2009 04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 5-1: MAIN MENU SCREEN

THE DIAGNOSTIC TEST MENU (2)

DIAGNOSTIC TEST MENU (2)

From the Main Menu Select (2) Diagnostic Test Menu.

(1) OBDII SCAN

STEP 1. Select (1) OBDII Scan

iagnostic Test Menu		
	(1) OBDII Scan	
	(2) Opacity Diagnostic Test	
	(3) Gas Emissions Readings	
	(0) Main Menu	

FIGURE 5-2: DIAGNOSTIC TEST MENU SCREEN

THE DIAGNOSTIC TEST MENU (2)

- STEP 2. Next, "Enter vehicle Information".
- **STEP 3.** Locate the vehicles OBDII. Diagnostic Link Connector (DLC) and attach the workstation OBDII Cable.
- **STEP 4. Select next** to continue.

Note: If you do not want to continue with the OBDII Diagnostic Test select cancel.

Enter Vehicle Info OBDII Scan This is not an officia actual inspection results.	l test. Results of this diagnostic te The results of this test should be	est may not be indicative of the used fo <mark>r di</mark> agnostic purposes only.
License Pla Model ye Ma Mo	tte:	
e 5-3: Start OBDII Scan Screen		Next Cancel

THE DIAGNOSTIC TEST MENU (2)

- **STEP 5.** Next, Connect to DLC Screen, follow steps 1-3 or Press <F1> for help locating the vehicles DLC.
- STEP 6. Could the DLC be located and a connection made? Select Yes or No.
- STEP 7. If Yes, continue to next step.



THE DIAGNOSTIC TEST MENU (2)

STEP 8. Next, OBDII Scan in Progress message appears, now Verify your

connection to the OBDII module.

STEP 9. Then select appropriate OBD reading.

STEP 10. If reading is Pass, **select <Pass>** to continue with OBDII Diagnostic Test.

)BDII Scan In	Progress				11
	What should the	subsequent Of	3D readings refle	ct?	
	Pass	Fail	Comm Error	Equipment Fail	

FIGURE 5-5: OBDII SCAN IN PROGRESS SCREEN

THE DIAGNOSTIC TEST MENU (2)

STEP 11. View/Print OBDII Scan Results

STEP 12. Select <OK> to return to the Diagnostic Test Menu or <Print> for print

copy of results.



OPACITY DIAGNOSTIC TEST (2)

(2) OPACITY DIAGNOSTIC TEST

Note: Screen displays for diagnostic check may vary from screens used for actual inspection.

STEP 1. From the Diagnostic Test Menu, Select (2) Opacity Diagnostic Test.

Diagnostic Test Menu		1211012003 VZ 43
	(1) OBDII Scan	
	(2) Opacity Diagnostic Test	
	(3) Gas Emissions Readings	
	(0) Main Menu	

OPACITY DIAGNOSTIC TEST (2)

STEP 2. Start Opacity Diagnostic Test, enter requested information in each field

and Select Next.

Please note: Message below is only showed on manual Opacity test.

"This is not an official test. Results of this diagnostic test may not be indicative of the

actual inspection results. The results of this test should be used for diagnostic purposes

only".

Start Opacity Diagnostic Test	12/18/2009 06:15
This is not an official test. Resu indicative of the actual inspec should be used for o	Its of this diagnostic test may not be tion results. The results of this test diagnostic purposes only.
License plate:	
Model year:	
Make:	•
Model:	•
Transmission:	•
Engine HP:	•
Number of cylinders:	-
Engine speed:	▼
Use RPM and oil temperture s	ensors?
	Next Cancel
URE 5-8: START OPACITY DIAGNOSTIC TEST	

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OPACITY DIAGNOSTIC TEST (2)

STEP 3. Turn Off Accessories (Diesel Opacity Test)

STEP 4. Turn off the engine brake and all vehicle accessories, including, but not

limited to, air conditioning, heating, defroster, radio, and lights.

STEP 5. Select **<Next>** to continue.



OPACITY DIAGNOSTIC TEST (2)

STEP 6. Test Selection (Diesel Opacity Test) - Select Test to be performed.

- (1) Rolling Acceleration
- (2) Power Brake
- (3) Snap Acceleration

(1) Rolling Acceleration:

STEP 1. Select (1) Rolling Acceleration

Test Selection		1111
Diesel Opacity Test	This is not an official test. Results of this diagnostic test may not be indicative of the actual inspection results. The results of this test should be used for diagnostic purposes only.	
	(1) Rolling Acceleration	
	(2) Power Brake	
	(3) Snap Acceleration	

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OPACITY DIAGNOSTIC TEST (2)

- STEP 2. Connect Smokemeter (Diesel Opacity Test)
- **STEP 3.** Follow instructions on screen, **Click** *<***Next>** to continue.



OPACITY DIAGNOSTIC TEST (2)

STEP 4. Next, Start Rolling Acceleration Test

• Select what the result of the smokemeter test should be.

STEP 5. Smokemeter Pass - Select Pass to continue to the next step.



FIGURE 5-12: START ROLLING ACCELERATION TEST (DIESEL OPACITY TEST)

OPACITY DIAGNOSTIC TEST (2)

STEP 6. View/Print Opacity Diagnostic Test Results (Start Rolling

Acceleration)

STEP 7. Select **<OK>** to return to the Diagnostic Test Menu or **<Print>** for print

copy of results.

						v1.0.2515 2/21/2009 11:05
Opacity Diagnostic Test Resu	ılts					12345
This is no indication	ot an official to ve of the actu should be u	est. R al ins ised f	esults of this d pection results or diagnostic p	iagno . The ourpos	stic test may not be results of this test ses only.	
Make: ACUR/	4				Ambient temperature:	35.5
Model: CSX					Barometric pressure:	0
Model Year: 2009					Relative humidity:	0
					Dewpoint:	0
Snap 1	Snap	2	Snap	3		
Opacity: 0	Opacity:	0	Opacity:	29.8		
Oil temp: 0	Oil temp:	0	Oil temp:	140	Opacity average:	29.8
Max RPM: 0	Max RPM:	0	Max RPM:	0	Opacity spread:	5
Min RPM: 0	Min RPM:	0	Min RPM:	0	Zero drift:	1.2
Rise time: 0	Rise time:	0	Rise time:	4		
					ок	Print

FIGURE 5-13: OPACITY DIAGNOSTIC TEST RESULTS

OPACITY DIAGNOSTIC TEST (2)

(2) Power Brake Test

STEP 1. Follow steps 1-6 above from the **Diagnostic Test Menu** (See Figure 5-5

thru Figure 5-9) and Select (2) Power Brake

NJ INSPECT	1 <mark>0</mark> NS		v1.0.2515 12/18/2009.06-26
Test Selection Diesel Opacity Test	This is not an offici indicative of the a should i	ial test. Results of this diagnostic actual inspection results. The resu be used for diagnostic purposes o	11111 test may not be lts of this test only.
		(1) Rolling Acceleration	
		(2) Power Brake	
		(3) Snap Acceleration	

FIGURE 5-14: TEST SELECTION (DIESEL OPACITY TEST)

OPACITY DIAGNOSTIC TEST (2)

- STEP 2. Connect Smokemeter (Diesel Opacity Test)
- **STEP 3.** Follow instructions on screen, **Click** *<***Next>** to continue.



OPACITY DIAGNOSTIC TEST (2)

STEP 4. Start Power Brake Test

• Select what the result of the smokemeter test should be.

STEP 5. Smokemeter Pass - Select Pass to continue to the next step.

	DNS			v1.0. 12/21/20	2515 09 11:20
Start Power Brake T	est				12345
Diesel Opacity Test	This is not an official	test. Results of th	is diagnostic test	t may not be	
	What should the I	result of the smo	okemeter test be	e?	
• Choc					
• Set th					
• Start					
The to Pass smoker	Fail	Invalid	Cancelled	Comm Error	
				A	bort

FIGURE 5-16: START POWER BRAKE TEST (DIESEL OPACITY TEST)

OPACITY DIAGNOSTIC TEST (2)

- STEP 6. View/Print Opacity Diagnostic Test Results (Power Break Test)
- STEP 7. Select <OK> to return to the Diagnostic Test Menu or <Print> for print

copy of results.



FIGURE 5-17: OPACITY DIAGNOSTIC TEST RESULTS (POWER BREAK TEST)

OPACITY DIAGNOSTIC TEST (2)

(3) Snap Acceleration Test:

STEP 1. Follow steps 1-6 above from the **Diagnostic Test Menu** (See Figure 5-5

thru Figure 5-9) and Select (3) Snap Acceleration

Test Selection			12/18	/2009 06:26
Diesel Opacity Test	This is not an indicative of sh	official test. Results of this diagnost f the actual inspection results. The re ould be used for diagnostic purposes	ic test may not be sults of this test s only.	
		(1) Rolling Acceleration		
		(2) Power Brake		
		(3) Snap Acceleration		

FIGURE 5-18: TEST SELECTION (DIESEL OPACITY TEST)

OPACITY DIAGNOSTIC TEST (2)

STEP 2. Start Snap Acceleration Test

• Select what the result of the smokemeter test should be.

STEP 3. Smokemeter Pass - Select Pass to continue to the next step.

		IS			v1.0. 12/21/20	2515 09 11:53
Start Snap A	Acceleration T	est				12345
Diesel Opacit	y Test This i	s not an official t	est. Results of the	is diagnostic test	t may not be	
• Choc • Ensu						
• The t						
smoker	Pass	Fail	Invalid	Cancelled	Comm Error	
					A	Abort

FIGURE 5-19: START SNAP ACCELERATION TEST (DIESEL OPACITY TEST)

OPACITY DIAGNOSTIC TEST (2)

- STEP 4. View/Print Opacity Diagnostic Test Results (Snap Acceleration Test)
- STEP 5. Select <OK> to return to the Diagnostic Test Menu or <Print> for print

copy of results.



FIGURE 5-20: OPACITY DIAGNOSTIC TEST RESULTS (SNAP ACCELERATION TEST)

OPACITY DIAGNOSTIC TEST (2)

(3) GAS EMISSIONS READINGS

STEP 1. From the Diagnostic Test Menu, Select (3) Test Gas Emissions

Readings.

		v1.0.2515
Diagnostic Test Menu		12/15/2009 02:43
	(1) OBDII Scan	
	(2) Opacity Diagnostic Test	
	(3) Gas Emissions Readings	
	(0) Main Menu	

FIGURE 5-21: DIAGNOSTIC TEST MENU

OPACITY DIAGNOSTIC TEST (2)

STEP 2. Enter Vehicle Info (Gas Diagnostic Test)

STEP 3. Enter requested information and **Select <Next>** to continue.

Cas Diagnostic Test This is not an official test. Results of this diagnostic test may not be indicative of the actual inspection results. The results of this test should be used for diagnostic purposes only.	Enter Vehicle Info				
License plate: Model year: Make: Model:	Gas Diagnostic Test	This is not an official test. R indicative of the actual ins should be used f	esults of this diagnos pection results. The re or diagnostic purpose	tic test may not be esults of this test es only.	
Model year: Make:		License plate: [
Make: T		Model year:			
Model:		Make:	•		
		Model:			
		Model:			

FIGURE 5-22: ENTER VEHICLE INFO (GAS DIAGNOSTIC TEST)

OPACITY DIAGNOSTIC TEST (2)

STEP 4. Gas Emission Readings Start

STEP 5. Follow instructions on the screen, **Select <Next>** to continue.

	v1.0.2515 12/21/2009 01:52
Gas Emissions Readings Start This is not an official test. Results of this diagnostic test may not be indicative of the actual inspection results. The results of this test should be used for diagnostic purposes only.	
 Keep the transmission in park or neutral. All accessories must be turned off. Insert the exhaust sample probe in the tailpipe. Connect the RPM probe. 	
5. Turn on the engine. 6. Turn the zero air cylinder on.	
	Next

FIGURE 5-23: GAS EMISSIONS READING START

OPACITY DIAGNOSTIC TEST (2)

STEP 6. Zero Calibration Message (Gas Diagnostic Test)

	v1.0.2515 19/21/2009 01.54
Zero Calibration Gas Diagnostics Test	Plate Number
Turning zero solenoid on	
	Abort

FIGURE 5-24: ZERO CALIBRATION (GAS DIAGNOSTIC TEST)

OPACITY DIAGNOSTIC TEST (2)

STEP 7. Message to turn off the zero air cylinder is displayed; **Select <OK>** to

continue.



FIGURE 5-25: TURN OFF ZERO AIR CYLINDER MESSAGE

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Chapter 6

Equipment Checks and Calibrations (3)
EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

CHAPTER 6: EQUIPMENT CHECKS/CALIBRATIONS MENU

EQUIPMENT CHECKS AND CALIBRATIONS MENU

Menu.

STEP 1. From the Main Menu Select (3) Equipment Checks and Calibrations

		V1.0.2515 12/15/2009 04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 6-1: MAIN MENU SCREEN

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EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

- **STEP 2. Scan badge number** of enter login information.
- STEP 3. Click OK to continue.

Please Log In	
 Enter or scan badge number INL000013 2. Enter your accers code ●●●●●● 	
ОК	Cancel

FIGURE 6-2: LOG IN SCREEN - SCAN OR ENTER BADGE/ACCESS CODE

EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

(2) PRINTER AND BARCODE

STEP 4. From the Calibration/Check Menu, Select (2) Printer and Barcode

Scanner Check.

NJ INSPECTIONS		v1.0.2515 12/15/2009 02:57
Calibration/Check Menu		
	(1) Calibrate/Check All	
	(2) Printer and Barcode Scanner Check	
	(3) Gas Analyzer Calibration	
	(4) Gas Analyzer Leak Check	
	(5) Gas Cap Tester Calibration	
	(6) Smokemeter Calibration	
	(0) Main Menu	

FIGURE 6-3: CALIBRATION/CHECK MENU SCREEN

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EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

STEP 5. Verify that the text, the 1D, and 2D barcodes have printed correctly.

STEP 6. Select Yes or No.

If Yes, continue to Step 7.

			v1.1 2564 12/16/2009 04:25
Verify Printing Printer and Barcode Scanner Check			
	Did the printed text, 1D and 2D barcodes print clearly?		
		Yes	No

FIGURE 6-4: VERIFY PRINTING "PRINTER AND BARCODE SCANNER CHECK" SCREEN

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EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

STEP 7. Scan the 1D barcode on the printer test page.

		v1.1.2564 12/16/2009.04/25
Scan 1D Barcode Printer and Barcode Scanner Check		
	Please scan the 1D barcode on the printer test page.	
		Cancel

FIGURE 6-5: SCAN 1D BARCODE "PRINTER AND BARCODE SCANNER CHECK" SCREEN

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EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

STEP 8. Verify your Barcode scanner and Printer Equipment check results.

STEP 9. Click OK.

Please note, example below illustrates a failed result. If pass, screen will display

Barcode scanner: Passed.

		v1.0.2515 12/21/2009 04 22
esults		
inter and Barcode Scanner Check		
Printer:	Passed	
Barcode scanner:	Failed	
Make sure that you use the printout from the	e start of the test to check the barcode scan	iner.
For assistance, please conta	ct the help desk at 1-888-665-2009.	
		OK
		UK
RE 6-6: RESULTS "PRINTER AND BARCODE SCANNER C	HECK" SCREEN	

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EQUIPMENT CHECKS/CALIBRATIONS MENU (3)

STEP 10. Completed Calibration test message will be displayed, **Select <OK>** to

return to the Calibration/Check Menu.

	v1.0.2515 12/21/2009 04:23
Completing Calibration	12/21/2009 04:23
Complete	
	OK

FIGURE 6-7: COMPLETING CALIBRATION COMPLETED MESSAGE

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Chapter 7 The Utilities Menu (4)

UTILITIES MENU (4)

CHAPTER 7: THE UTILITIES MENU

UTILITIES MENU

From the Main Menu select (4) Utilities Menu.

Within the (4) Utilities menu option there are several functions available, see the different options below in Figure 7-1 to Figure 7-7.

INSPECT		v1.0.2515 12/15/2009.04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 7-1: MAIN MENU SCREEN

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UTILITIES MENU (4)

(1) DATA FILE REFRESH FROM THE UTILITIES MENU



FIGURE 7-2: UTILITIES MENU

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NEW JERSEY

OPERATORS INSTRUCTION MANUAL	
UTILITIES MENU (4)	
DATA FILE REFRESH MESSAGE	
	V1.1.2564 12/16/2009.04:39
Data File Refresh	
Contacting VID	
	DK

FIGURE 7-3: DATA FILE REFRESH SCREEN

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UTILITIES MENU (4)

(2) WORKSTATION STATUS SCREEN FROM THE UTILITIES MENU.



FIGURE 7-4: WORKSTATION STATUS SCREEN

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UTILITIES MENU (4)

(3) PRINTER SETUP SCREEN FROM THE UTILITIES MENU

	NS		v1.1.2564 12/16/2009.04:37
Printer Setup			12/16/2009 04:37
	Printer: Lexmark E260d	V	
-		ОК	Cancel

FIGURE 7-5: PRINTER SETUP SCREEN OPTION

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UTILITIES MENU (4)

(4) REQUEST REMOTE HELP SCREEN FROM THE UTILITIES MENU

- You will be prompted to enter the daily password, which must be requested by the helpdesk.
- Click OK to continue.

Please call the help desk at 1-888-665-2009 t for accessing this fun	to obtain the da iction.	ily password
Daily password:		
	ОК	Cancel

FIGURE 7-6: REQUEST REMOTE HELP SCREEN ENTRY

 Once the daily password is entered and you choose <OK> you will be returned to the Utilities Menu.

UTILITIES MENU (4)

(5) INTERNET CONNECTION CHECK SCREEN FROM THE FROM THE UTILITIES MENU

- Verify your connection if any problems contact the help desk at 1-888-665-2009.
- **Click OK** to return to the Utilities Menu.

			v1.0.2515 12/15/2009.04:10
nternet Connection Check			
Ť	he internet connection check passed		
	Le.		
For assista	nce, please contact the help desk at 1-888	-665-2009.	
	Check Again		
			OK
IRE 7-7: INTERNET CONNECTION CHEC	CK SCREEN		

UTILITIES MENU (4)

(6) DIAL TONE CHECK SCREEN FROM THE FROM THE UTILITIES MENU

- If any problems with connection contact the help desk at 1-888-665-2009
- Click OK to return to the Utilities Menu.

ial Tone Check		
	This workstation is not currently set to use the modem.	
	Check Again	
	For assistance, please contact the help desk at 1-888-665-2009.	
		OK

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Chapter 8

View

Messages (5)

VIEW MESSAGES (5)

CHAPTER 8: VIEW MESSAGES

1. From the Main Menu, select (5) Messages.

2.3.122.15.90		12/15/2009 02:49
ain Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(0) Demain Data Estar	

FIGURE 8-1: MAIN MENU SCREEN

VIEW MESSAGES (5)

- All messages will be listed with the newest message listed first. All messages are listed in order of the date they were sent.
- 3. Click on the message you wish to view and select OK.

	V0.1.1328 07/26/2009 12:11
Messages	
New - Title	Sent
	OK

FIGURE 8-2: MESSAGES SCREEN

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Chapter 9 The Workstation Management Menu (7)

THE WORKSTATION MANAGEMENT MENU (7)

CHAPTER 9: THE WORKSTATION MANAGEMENT MENU

1. From the Main Menu, select (7) Workstation Management Menu.

NJINSPECI	IDINS	v1.0.2515 12/15/2009 04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

FIGURE 9-1: MAIN MENU SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

2. Enter Workstation password to continue.

Please enter the workstation	password	
Password:		
	ОК	Cancel

FIGURE 9-2: WORKSTATION PASSWORD SCREEN

THE WORKSTATION MANAGEMENT MENU (7)

From the Workstation Management Menu, select option (1) Data File Refresh.

	NS	v1.0.2515 12/15/20 <u>09.05:00</u>
/orkstation Manageme	ent Menu	
	(1) Data File Refresh	
	(2) Change Password	
	(3) Equipment Maintenance	
	(4) Update Software From CD	
	(5) Internet Access Setup	
	(6) Internet Connection Check	
	(7) Close Out Workstation	
	(8) Reports	
	(9) View Facility Information	
	(0) Main Menu	

FIGURE 9-3: WORKSTATION MANAGEMENT MENU SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(1) DATA FILE REFRESH SCREEN

NJ INSPECTI	JNS	V1.1.2564 12/16/2009.04/39
Data File Refresh		12/16/2009.04:39
	Contacting VID	
		QIC

FIGURE 9-4: DATA FILE REFRESH SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(2) CHANGE WORKSTATION PASSWORD

 Enter new password and confirm click <OK> to complete change and return to the Workstation Menu.

NJINSPECTIONS Change Workstation Password			V0.1.1316 07/20/2009 09:42
	New password:		
		OK	Cancel

FIGURE 9-5: CHANGE WORKSTATION PASSWORD SCREEN

THE WORKSTATION MANAGEMENT MENU (7)

(3) EQUIPMENT MAINTENANCE

• Enter equipment information and click OK to return to the Workstation

Management Menu.

-quipment Maintenance			
Servicer name.	1	- 2080	
Service request date:	7/26/2009	×	
Initial service date:	//26/2009	×	
Service item:	1	~	
Serial number:	-		
Work performed:	1	~	
Problem resolved:	1	~	
Return visit required:	1	*	
			OK Cancel
re 9-6: Equipment Maintenance Screen			

THE WORKSTATION MANAGEMENT MENU (7)

(4) UPDATE SOFTWARE FROM CD

oftware Update from	n CD		
	An update CD was not found in the CD-ROM drive.		
	For assistance, please contact the help desk at 1-888-665-2009.		
		ок	

FIGURE 9-7: SOFTWARE UPDATE FROM CD SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(5) INTERNET ACCESS SETUP

	NS		V0.1.1316 07/20/2009 09:45
inemer Access Serup			
	Internet connection type: Broadband	v	
		ОК	Cancel

FIGURE 9-8: INTERNET ACCESS SETUP SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(6) INTERNET CONNECTION CHECK

leck	
The internet connection check Passed For assistance, please contact the help desk at 1-888-665-200 Check Again	09.

FIGURE 9-9: INTERNET CONNECTION CHECK SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(7) INITIALIZATION

- See Figure 9-10 to Figure 9-12 for steps to initialize workstation.
 - a. Scan Workstation ID.

Scan Workstation ID		vu 1, 7328 07/26/2009 11:49
	Please scan your workstation ID.	
		Cancel

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THE WORKSTATION MANAGEMENT MENU (7)

b. Scan Facility ID.

		V0.1.1416 08/10/2009 04.27
Scan Facility ID		
	Please scan your raciiity iD.	
		Cancel

FIGURE 9-11: SCAN FACILITY ID SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

c. View Facility Information.

Facility name:	Test Facility		
Address:	123 Main Street		
Address 2nd line:	Suite 3	1	
City:	Rutherford		
State:	NJ		
Zip code:	11111		
Phone number:	123-456-7890		
Fax number:	123-456-7891		

FIGURE 9-12: VIEW FACILITY INFORMATION SCREEN

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THE WORKSTATION MANAGEMENT MENU (7)

(8) REPORTS MENU

Reports		0//20/2009 00,48
	(1) Vehicle Inspection Report (VIR)	
	(2) Sticker Usage Report	
	(3) Inspection Detail Report	
	(4) Workstation Performance Report	
	(5) Inspector Performance Report	
	(6) Workstation Status Report	
	(7) System Access Log Report	
	(8) System Communication Report	
	(9) Compliance Report	
	(0) Main Menu	

FIGURE 9-13: REPORTS MENU

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THE WORKSTATION MANAGEMENT MENU (7)

(9) VIEW FACILITY INFORMATION

		v1.1.2564 12/17/2009 10:08
View Facility Information		
Facility name:	Test Facility	
Address:	123 Main Street	
Address 2nd line:	Suite 3	
City:	Rutherford	
State:	NJ	
Zip code:	11111	
Phone number:	123-456-7890	
Fax number:	123-456-7891	
Email address:	mail@testfacility.com	
		ОК

FIGURE 9-14: VIEW FACILITY INFORMATION SCREEN

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Select option (0) Main Menu to return to the Main Menu from the Workstation

Management Menu.

	IDNS	v1.0.2515 12/15/2009.04:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	

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Chapter 10 Repair Data Entry (9)

REPAIR DATA ENTRY (9)

CHAPTER 10: REPAIR DATA ENTRY

1. From the Workstation Management Menu, select option (9) Repair Data Entry.

Repair Data Entry is where the customer inputs any vehicle repair's they have

performed.

	I NS	v1.0.2515 12/10/2009 12:46
Main Menu		
	(1) Vehicle Inspection Menu	
	(2) Diagnostic Test Menu	
	(3) Equipment Checks and Calibrations Menu	
	(4) Utilities Menu	
	(5) View Messages	
	(6) Service Menu	
	(7) Workstation Menu	
	(8) State Menu	
	(9) Repair Data Entry	
	Shutdown	
4 ■2 ₽ 4		

FIGURE 10-1: MAIN MENU SCREEN

REPAIR DATA ENTRY (9)

2. Enter your user name and password and click Login to enter the New Jersey

Vehicle Inspection Portal.

STATE OF NEW JERSEY MOTOR VEHICLE COMMISS	New Jersey Vehicle Inspection Portal Login	
avalater Tremon	Enter your user name and password to login. User Name Password Login Forgot your D or Password? One Portal! ID. So much Data At your Finger Tips	A A A A A A A A A A A A A A A A A A A

FIGURE 10-2: ERF REPAIR DATA ENTRY LOGIN SCREEN



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Chapter 11

Troubleshooting

TROUBLESHOOTING GUIDE (LCD MONITOR)

CHAPTER 11: TROUBLESHOOTING

VIEWSONIC 17" LCD MONITOR TROUBLESHOOTING PROCEDURES:

No power

Make sure power button (or switch) is ON.

Make sure A/C power cord is securely connected to the LCD display.

Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.

POWER IS ON BUT NO SCREEN IMAGE

Make sure the video cable supplied with the LCD display is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the LCD display, tightly secure it to the LCD display.

Adjust brightness and contrast.

If you are using a Macintosh older than G3, you need a Macintosh adapter.

WRONG OR ABNORMAL COLORS

If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.

Connect the LCD display to another computer.

If you have an older graphics card, contact ViewSonic® for a non-DDC adapter.

CONTROL BUTTONS DO NOT WORK

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TROUBLESHOOTING GUIDE (LCD MONITOR)

Press only one button at a time.

(Troubleshooting procedures courtesy of ViewSonic)

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TROUBLESHOOTING GUIDE (BARCODE SCANNER)

HONEYWELL HHP 4600 BARCODE SCANNER TROUBLESHOOTING PROCEDURES:

The Bar Code Scanner automatically performs self-tests whenever you turn it on.

If your Bar Code Scanner is not functioning properly, review the following Troubleshooting Guide to try to isolate the problem:

Is the power on?

Is the aiming beam on?

If the aiming beam is not illuminated, check to make sure that:

- The cable is connected properly.
- The host system power is on (if external power is not used).
- The trigger works.

Is the imager having trouble reading your symbols?

- If the imager isn't reading symbols well, check that the symbols:
 - Are not smeared, rough, scratched, or exhibiting voids,
 - Are not coated with frost or water droplets on the surface, or
 - Are enabled in the imager or in the decoder to which the imager connects.

If the connections and power supply are Ok, please call the NJ2009 Help Desk for assistance @ 1-888-6NJ-2009 or (888-665-2009).

If the Bar Code Scanner won't read your bar code at all.

Call the NJ2009 Help Desk for assistance @ 1-888-6NJ-2009 or (1-888-665-2009).

TROUBLESHOOTING GUIDE (BARCODE SCANNER)

RESET THE BAR CODE SCANNER SETTINGS



Do not attempt to reset or reprogram your Bar Code Scanner. If you are having difficulty with your bar code scanner, call the NJ2009 Help Desk at 1-888-6NJ-2009 or (1-8888-665-2009) for assistance.

- In the event that the NJ2009 Help Desk Customer Service Agent determines that your bar code scanner requires reprogramming, you will be instructed to scan the Default bar code below.
- DO NOT SCAN THIS BAR CODE UNLESS INSTRUCTED TO DO SO...

Default

2		

(Troubleshooting procedures courtesy of Honeywell and SGS Testcom Inc.)

TROUBLESHOOTING GUIDE (GAS CAP)

WAEKON FPT27 GAS CAP TESTER TROUBLESHOOTING PROCEDURES:



(Troubleshooting procedures courtesy of Waekon)

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TROUBLESHOOTING GUIDE (PRINTER JAM)

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Printer Jams Troubleshooting Procedures

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PRINTER JAMS

- Accessing jammed areas
- Understanding jam lights and access locations
- Clearing jams behind the photo conductor kit and toner cartridge
- Clearing jams from the standard exit bin
- Clearing jams from tray 1
- Clearing jams from tray 2
- Clearing jams in the manual feeder
- Clearing jams behind the rear door

TROUBLESHOOTING GUIDE (PRINTER JAM)



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TROUBLESHOOTING GUIDE (PRINTER JAM)

▷ - On	
Try one of the following:	
Remove Tray 1.	
Open the front door, and then remove the photoconductor kit and toner cartric	lge unit.
_	
! * D & + -	
201.yy raper jam	
₽v - On	
<u>i</u> <u>M</u> /∕ <u>⊗</u> - On	
l⊳-On	
Open the front door, and then remove the photoconductor kit and toner cartridge	unit.
! # D 200 0	
! #r D & 0 *	
202.yy Paper jam	
! fr D &/⊗ v 202.yy Paper jam ≇∕/On	
! *r D &/⊗ ♥ 202.yy Paper jam */√On	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
202.yy Paper jam */√On □-On □-On Open the front door, and then open the rear door.	

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TROUBLESHOOTING GUIDE (PRINTER JAM)

 ! \$\				
231.yy Paper	jam			
∎⁄√On				
- Blinking				
l⊵-On				
Open the front do	or, and then open the re	ear door.		
233.yy Paper ≇\/On	jam			
233.yy Paper ≇√On [^h -Blinking	jam			
233.yy Paper ∛∵-On □-Blinking ☑/@-Blinking	jam			
233.yy Paper *\On □-Blinking □On	jam			
233.yy Paper ¹ √- On ¹ -Blinking ¹ √⊗ - Blinking ¹ ⊵- On Try one of the foll	jam wing:			
233.yy Paper ¹ √··On ¹ ··Blinking ¹ √···Blinking ¹ /····Blinking ¹ /····································	jam owing: , and then depress the l	lever. he rear door.		

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₽\/On		
🕁 - Blinking		
⊳-On		
Try one of the fo • Open the fro • Remove Tray	lowing: nt door, and then open the rear door. 1, and then depress the lever.	
235.yy Pape	: jam	
≇∖∕On		
Blinking		
☆-Blinking		
l⊵-On		
24x.yy Pape	: jam	
₽⁄vOn		
ſ [™] -On		
₩/@-On		
⊳-On		
Try one of the fo	llowing:	
Remove Tray	1.	
Open the fro Bemove Tray	nt door, and then remove the photoconductor kit and toner cartride	ge unit.

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251.yy Paper jam Iv-On Iv-	
 №-On ♡-On ⊵-On Remove the jam from the manual feeder. Clearing jams behind the photoconductor kit and toner cartridge 1 Push the release button, and then lower the front door. 	
 Image: Image: Im	
 On De - On Remove the jam from the manual feeder. Clearing jams behind the photoconductor kit and toner cartridge 1 Push the release button, and then lower the front door. 	
Perform Preventing in the manual feeder. Clearing jams behind the photoconductor kit and toner cartridge 1 Push the release button, and then lower the front door.	
Remove the jam from the manual feeder. Clearing jams behind the photoconductor kit and toner cartridge Push the release button, and then lower the front door.	
Clearing jams behind the photoconductor kit and toner cartridge 1 Push the release button, and then lower the front door.	

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

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Basic Printer

Troubleshooting

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

BASIC PRINTER TROUBLESHOOTING PROCEDURES

- Solving basic printer problems
- Solving printing problems
- Solving option problems
- Solving paper feed problems
- Solving print quality problems
- Clearing jams

TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

Troubleshooting

Solving basic printer problems

If there are basic printer problems, or the printer is unresponsive, make sure:

- The power cord is plugged into the printer and a properly grounded electrical outlet.
- The electrical outlet is not turned off by any switch or breaker.
- The Ground Fault Circuit Interrupter (GFCI) has not tripped.
- The printer is not plugged into any surge protectors, uninterrupted power supplies, or extension cords.
- Other electronic equipment plugged into the outlet is working.
- The printer is turned on. Check the printer power switch.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.
- All options are properly installed.
- The printer driver settings are correct.

Once you have checked each of these possibilities, turn the printer off, wait for about 10 seconds, and then turn the printer back on. This often fixes the problem.

Solving printing problems

Jobs do not print

These are possible solutions. Try one or more of the following:

MAKE SURE THE PRINTER IS READY TO PRINT

Make sure the 🖓 light is on before sending a job to print.

CHECK TO SEE IF THE STANDARD EXIT BIN IS FULL

Remove the stack of paper from the standard exit bin.

CHECK TO SEE IF THE TRAY IS EMPTY

Load paper in the tray.

MAKE SURE THE CORRECT PRINTER SOFTWARE IS INSTALLED

Verify that you installed the correct printer software for your printer model.

Click **Install printer and software** on the *Software and Documentation* CD to check which software is installed. Make sure the model number of the software matches the model number of your printer.

To verify that the printer software is the most current, check the Lexmark Web site at www.lexmark.com.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

MAKE SURE THE PRINTER IS CONNECTED TO THE NETWORK

Print a network setup page and check that the status shows **Connected**. If the status is **Not Connected**, check the network cables, and then up printing the network setup page basin. Contact your cyclion support parson to make sure the network is functioning correctly.

Copies of the printer software are also available on the Lexmark Web site at www.lexmark.com.

MAKE SURE YOU ARE USING A RECOMMENDED USB, PARALLEL, OR ETHERNET CABLE

For more information, visit the Lexmark Web site at www.lexmark.com.

MAKE SURE PRINTER CABLES ARE SECURELY CONNECTED

Check the cable connections to the printer to make sure they are secure. For more information, see the setup documentation that came with the printer.

Multiple-language PDFs do not print

The documents contain unavailable fonts.

1 Open the document you want to print in Adobe Acrobat.

2 Click the printer icon.

- The Print dialog appears.
- 3 Select Print as image.

4 Click OK.

Job takes longer than expected to print

The job is too complex.

Reduce the complexity of your print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job.

Job prints from the wrong tray or on the wrong paper

These are possible solutions. Try one or more of the following:

CHECK THE PAPER SIZE AND PAPER TYPE SETTINGS

From the Paper menu, make sure the Paper Size and Paper Type settings match the paper loaded in the trays. To access the Paper menu, do one of the following:

- If the printer is on a network, access the Embedded Web Server by typing the IP address of the printer in the address bar of a Web browser. From the Settings tab, click Paper Menu
- If the printer is connected to a computer by a USB or parallel cable, open the Local Printer Settings Utility for Windows or Printer Settings for Macintosh. One of these utilities installs with the printer software.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

CHECK	THE PAPER TAB SETTINGS IN YOUR OPERATING SYSTEM
Open l sure d tray.	Print Properties in a Windows operating system or the print dialog in a Macintosh operating system. Make He Input options settings for Paper aize, Paper tray, and Paper type correspond with the paper loaded in th
Incor	rect characters print
HexTra	te mode
Q-Slot	w/v blinking
Make su	re the printer is not in Hex Trace mode. If the "Hex Trace mode" light sequence appears, you must exit Hex
Trace mo	de before you can print your job. To exit Hex Trace mode, turn the printer off and back on.
Tray	linking does not work
Make su	re to do all of the following:
 Load 	both Tray 1 and Tray 2 with the same paper size and type.
• From	Print Properties or the print dialog, change the Paper source to Automatically select.
Large	e jobs do not collate
These an	e possible solutions. Try one or more of the following:
CHECK	THE COLLATE SETTING
From	the Finishing menu, make sure Collate is On. To access the Finishing menu, do one of the following:
• If the	he printer is on a network, access the Embedded Web Server by typing the printer iP address into the address Id of your Web browser. From the Settings screen, click Finishing Menu .
• If t Wi	he printer is connected to a computer by a USB or parallel cable, open the Local Printer Settings Utility for ndows or Printer Settings for Macintosh. One of these utilities installs with the printer software.
Снеск	THE PAPER TAB SETTINGS IN YOUR OPERATING SYSTEM
Open i sure th	Print Properties in a Windows operating system or the print dialog in a Macintosh operating system. Make ne "Page layout" setting for "Collate copies" is On, or the Collate check box is selected
dia a	and the second

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

REDUCE THE COMPLEXITY OF THE PRINT JOB
Reduce the complexity of the print job by eliminating the number and size of fonts, the number and complexity of Images, and the number of pages in the job.
Make sure the printer has enough memory
Add printer memory.
Solving option problems
Option does not operate correctly or quits after it is installed
These are possible solutions. Try one or more of the following:
Reset the printer
Turn the printer off, wait for about 10 seconds, and then turn the printer on.
CHECK TO SEE IF THE OPTION IS CONNECTED TO THE PRINTER
1 Turn the printer off.
2 Unplug the printer.
3 Check the connection between the option and the printer.
Make sure the option is installed
Print a menu settings page and check to see if the option is listed in the Installed Options list. If the option is not listed, reinstall it,
Make sure the option is selected
From the program you are using, select the option. Mac OS 9 users should make sure the printer is set up in the Chooser.
Drawers
These are possible solutions. Try one or more of the following:
Make sure the paper is loaded correctly
1 Pull the tray completely out.
2 Check for paper jams or misfeeds.
3 Make sure the guides are aligned against the edges of the paper.
4 insert the tray.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

RESET THE PRINTER

Turn the printer off, wait about 10 seconds, and then turn the printer on.

Memory card

Make sure the memory card is securely connected to the printer system board.

Solving paper feed problems

Paper frequently jams

These are possible solutions. Try one or more of the following:

CHECK THE PAPER

Use recommended paper or specialty media. For more information, see "Paper and specialty media guide" on page 51.

FLEX, FAN, AND STRAIGHTEN THE PAPER BEFORE LOADING IT IN THE TRAY



MAKE SURE THERE IS NOT TOO MUCH PAPER IN THE TRAY

Make sure the stack of paper you load does not exceed the maximum stack height indicated in the tray.

CHECK THE GUIDES

Move the guides in the tray to the correct positions for the paper size loaded.

THE PAPER MAY HAVE ABSORBED MOISTURE DUE TO HIGH HUMIDITY

- Load paper from a fresh package.
- Store paper in its original wrapper until you use it.

Paper jam lights remain on after jam is cleared

The paper path is not clear. Clear jammed paper from the entire paper path, and then close any open doors.

TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

Page that jammed does not reprint after the jam is cleared Jam Recovery is set to Off. Do one of the following to set Jam Recovery to Auto or On: If the printer is on a network, access the Embedded Web Server: 1 Type the printer IP address into the address field of your Web browser. Note: If you do not know the IP address of the printer, print a network setup page and locate the IP address in the TCP/IP section. 2 From the Settings tab, make sure Jam Recovery is set to Auto or On, and then click Submit. If the printer is connected to a computer by a USB or parallel cable, open the Local Printer Settings Utility for Windows or Printer Settings for Macintosh. One of these utilities installs with the printer software. From the Setup menu, make sure Jam Recovery is set to Auto or On. Solving print quality problems The information in the following topics may help you solve print quality problems. If these suggestions still do not correct the problem, call Customer Support. You may have a printer part that requires adjustment or replacement. Isolating print quality problems Print the print quality test pages to isolate print quality problems. 1 Turn the printer off, and then open the front door. 2 Press and hold be while turning the printer on. 3 Release 4 Close the front door. The light sequence that represents the Home menu appears. ----I A D LO V L'-On 1/8-On ☆-On P-On 5 Press and release × until you see the light sequence for print quality test pages, as indicated on the printer settings configuration sheet 6 Press and hold |> until all lights cycle.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

After a few minutes, the print quality test pages print. The pages include:
 An information page containing information about the device, the cartridge, margin settings, and minimum stock width and a parable for angle ating the prior traveling.
Stoke wroun, and a graphic to evaluating the print quark Two pages for assessing how well the printer is capable of printing various types of graphics
7 Examine the pages to determine the quality of printing. If there are problems, see "Solving print quality problems" on page 131.
To return to the Home menu, press and hold \times until all the lights cycle. To exit the menus, turn the printer off.
Blank pages
r
Try one or more of the following:
Remove and reinstall the toner cartridge.
Remove and reinstall the photoconductor kit.
if the printer still prints blank pages, it may need to be serviced. For more information, contact customer support.
Characters have jagged or uneven edges
ABC
DEE
DEF
If you are using downloaded fonts, verify that the fonts are supported by the printer, the host computer, and the
sortware program.
Clipped images
These are possible solutions. Try one or more of the following:
CHECK THE PAPER GUIDES
Move the guides in the tray to the correct positions for the paper size loaded.
CHECK THE PAPER SIZE SETTING
Make sure the Paper Size setting matches the paper loaded in the tray.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

Gray backgro	ound	
L		
From the Qualitymen	nu solect a reduced Toner Darkness setting before sending the job to print. To access the Quality	v
menu, do one of the f	following:	/
 If the printer is on field of your Web 	a network, access the Embedded Web Server by typing the printer IP address into the address browser. From the Settings tab, click Print Settings .	s
 If the printer is con Windows or Printe 	nnected to a computer by a USB or parallel cable, open the Local Printer Settings Utility for er Settings for Macintosh. One of these utilities installs with the printer software.	
Chost image	s	
These are possible sol	lutions. Try one or more of the following:	
THE PHOTOCONDU	UCTOR KIT MAY BE DEFECTIVE	
Replace the photoc	conductor kit.	
CHECK THE PAPER	R SIZE AND PAPER TYPE SETTINGS	
From the Paper me	enu, change the paper size and paper type settings to match the paper loaded in the tray. To	
 If the printer is o field of your Wel 	ienu, do one of the following: on a network, access the Embedded Web Server by typing the printer IP address in the addre: 26 browser. From the Settings tab, click Paper Menu .	s
 If the printer is c Windows or Print 	connected to a computer by a USB or parallel cable, open the Local Printer Settings Utility fo nter Settings for Macintosh. One of these utilities installs with the printer software.	

TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

Incorrect margins
N
ABC
DEF
CHECK THE PAPER GUIDES
Move the guides in the tray to the correct positions for the paper size loaded.
CHECK THE PAPER SIZE SETTING
Make sure the Paper Size setting matches the paper loaded in the tray.
CHECK THE PAGE SIZE SETTING
Before sending the job to print, specify the correct page size in Print Properties or the software program.
Paper curl
These are possible solutions. Try one or more of the following:
CHECK THE PAPER TYPE SETTING
Make sure the Paper Type setting matches the paper loaded in the tray.
The paper may have absorbed moisture due to high humidity
Try one or more of the following:
 Load paper from a fresh package. Store paper in its original wrapper until you use it.
Print is too dark
ABC
DEE
There are a shift of the second s

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

CHECK THE DARKNESS, BRIGHTNESS, AND CONTRAST SETTINGS
The Toner Darkness setting is too dark, the Brightness setting is too dark, or the Contrast setting is too high. • From Print Properties, change these settings.
Note: This solution applies to Windows users only. From the Quality menu, change these settings.
The paper may have absorbed moisture due to high humidity
 Load paper from a fresh package.
 Store paper in its original wrapper until you use it.
CHECK THE PAPER
Avoid textured paper with rough finishes.
CHECK THE PAPER TYPE SETTING
Make sure the Paper Type setting matches the paper loaded in the tray.
THE TONER CARTRIDGE MAY BE DEFECTIVE
Replace the toner cartridge.
Print is too light
ABC
DEE
These are possible solutions. Try one or more of the following:
CHECK THE DARKNESS, BRIGHTNESS, AND CONTRAST SETTINGS
The Toner Darkness setting is too light, the Brightness setting is too light, or the Contrast setting is too low. From Print Properties, change these settings.
Note: This solution applies to Windows users only. From the Quality menu, change these settings.
THE PAPER MAY HAVE ABSORBED MOISTURE DUE TO HIGH HUMIDITY
 Load paper from a fresh package.
 Store paper in its original wrapper until you use it.

TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

CHECK THE PAPER
Avoid textured paper with rough finishes.
CHECK THE PAPER TYPE SETTING
Make sure the Paper Type setting matches the paper loaded in the tray.
THE TONER MAY BE LOW
When Toner is low appears on the virtual display, or when the print becomes faded, order a new toner cartridge.
THE TONER CARTRIDGE MAY BE DEFECTIVE
Replace the toner cartridge.
Skewed print
CHECK THE PAPER GUIDES
Move the guides in the tray to the correct positions for the paper size loaded.
CHECK THE PAPER
Make sure you are using paper that meets the printer specifications.
Toner fog or background shading appears on the page
These are possible solutions. Try one or more of the following:
THE TONER CARTRIDGE MAY BE DEFECTIVE
Replace the toner cartridge.
THERE IS TONER IN THE PAPER PATH
Contact Customer Support.
Toner rubs off
ABC
DEE

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)



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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

THE TONER MAY SMEAR WHEN PAPER IS FED FROM A SPECIFIC SOURCE
From Print Properties, the print dialog, or the printer control panel, select another tray or feeder to feed the paper for the job.
THE TONER CARTRIDGE MAY BE DEFECTIVE
Replace the toner cartridge.
Make sure the paper path is clear
Paper could be caught between the photoconductor kit and the fuser. Check the paper path around the fuser area.
CAUTION—HOT SURFACE: The area of the printer near the fuser is hot. Allow the area to cool before removing paper from this area.
Clear any paper you see.
THERE MAY BE EXCESS TONER IN THE PAPER PATH
Contact Customer Support.
Streaked vertical lines
These are possible solutions. Try one or more of the following:
THE TONER MAY SMEAR WHEN PAPER IS FED FROM A SPECIFIC SOURCE
From Print Properties, the print dialog, or the printer control panel, select another tray or feeder to feed paper for the job.
THE TONER CARTRIDGE IS DEFECTIVE
Replace the toner cartridge.
Make sure the paper path is clear
Paper could be caught between the photoconductor kit and the fuser. Check the paper path around the fuser area.
Warning—Potential Damage: Do not touch the photoconductor on the underside of the photoconductor kit. Use the cartridge handle whenever you are holding the cartridge.
CAUTION—HOT SURFACE: The fuser and the inside of the printer near the fuser may be hot. To reduce the risk of injury from a hot component, allow the surface to cool before removing paper from this area.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)

Clear any paper you see.
THERE MAY BE EXCESS TONER IN THE PAPER PATH Contact Customer Support.
Solid black or white streaks appear on transparencies or paper
AEC ABC DEF L'EF
These are possible solutions. Try one or more of the following:
MAKE SURE THE FILL PATTERN IS CORRECT
If the fill pattern is incorrect, choose a different fill pattern from your software program.
 CHECK THE PAPER TYPE Try a different type of paper. For transparencies, use only ones recommended by the printer manufacturer. Make sure the Paper Type setting matches what is loaded in the tray or feeder. Make sure the Paper Texture setting is correct for the type of paper or specialty media loaded in the tray or feeder.
Make sure the toner is distributed evenly in the toner cartridge
Remove the toner cartridge and shake it from side to side to redistribute the toner to extend the life of the cartridge, and then reinstall it.
THE TONER CARTRIDGE MAY BE DEFECTIVE OR LOW ON TONER
Replace the used toner cartridge with a new one.
Contacting Customer Support
When you call Customer Support, describe the problem you are experiencing, the message on the display, and the troubleshooting steps you have already taken to find a solution.
You need to know your printer model type and serial number. For more information, see the label on the inside top front cover of the printer. The serial number is also listed on the menu settings page.
In the U.S. or Canada, call (1-800-539-6275). For other countries/regions, visit the Lexmark Web site at www.lexmark.com.

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TROUBLESHOOTING GUIDE (BASIC PRINTER ISSUES)



(Troubleshooting procedures courtesy of Lexmark)

TROUBLESHOOTING GUIDE (OBDII INTERFACE MODULE)

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OBDI Interface Module Troubleshooting procedures

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TROUBLESHOOTING GUIDE (OBDII INTERFACE MODULE)

OBDII INTERFACE MODULE TROUBLESHOOTING PROCEDURES:

	JNS	vc 08/27	X).1.1468 /2009 09:18
OBDII Scan in Progress			FHR-200
	Check Connection to the OBDII module. For assistance, please contact the help desk at 1-888-665-2009.	ОК	

FIGURE 11-1: OBDII SCAN IN PROGRESS SCREEN

- If you receive a connection error when testing a vehicle in the inspection menu please do the following:
 - a. Verify that Data Link Connector (DLC) cable is not damaged. If it is please call the help desk to an appointment for a replacement. If the cable does not appear to be damaged proceed to step b.

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TROUBLESHOOTING GUIDE (OBDII INTERFACE MODULE)

b. Please recycle the power to the OBDII interface module by unplugging and the plugging in the power supply into the power strip. Then try to attempt OBDII communications again with the vehicle. If it still does communicate call the help desk to schedule an appointment for service. It is possible you have a defective OBDII interface module.

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Chapter 12 Equipment Maintenance

EQUIPMENT MAINTENANCE

CHAPTER 12: EQUIPMENT MAINTENANCE

The following maintenance must be performed by the PIF:

- Check Low and High Cal gas bottles and ensure that the values are within allowable tolerance and the date has not expired
- Check cal gas bottle pressure if available
- Check the Zero bottle if available
- Check keyboard to ensure that all keys are functioning
- Check time and date
- Change Primary, and all In-lines filters if sample system is available
- Replace or clean any needed tubing
- Perform diagnostic checks on sample system
- Check printer drum and printer for cleanliness; clean or replace as needed
- Perform printer self-cleaning operation, if supported
- Ensure that the gas cap adapters are in good working order
- Perform Pass/Fail calibration on the Waekon tester
- Perform a performance check for the gas cap tester
- Ensure that the proper station information is printing out on the VIR

All PIFs will be responsible for proper routine maintenance of the test system. The

specific routine maintenance will be based on the configuration purchased. For OBDII

only systems, there is very little routine maintenance other than adding paper and toner

EQUIPMENT MAINTENANCE

to the printer and a periodic calibration of the gas cap tester. However, stations that

purchase the gas analytical system will need to follow routine maintenance schedule.

The schedule will include, but is not limited to:

Routine Maintenance	Requirement
Bowl Filters	Monthly (as needed)
Calibration Bottles	Change when empty
Hoses/Probe Tips (including diesel	Replace when needed
cables/hoses)	
Toner Cartridge	Replace when needed
Diesel Optics	Clean as required

MOBILE WORKSTATION HANDHELD USE

CHAPTER 13: MOBILE WORKSTATION

HANDHELD USE IN THE MOBILE WORKSTATION

There are four main areas where the handheld can be used in the NJ Workstation:

- 1. Scanning barcodes,
- 2. Gas analyzer emissions tests,
- 3. MIL tests, and
- 4. OBD emissions tests.

Handheld Prompt for Use: When the

workstation software displays a picture in picture type screen in the upper left hand corner of the workstation screen, the handheld may be used, see Figure 13-1.



FIGURE 13-1: PICTURE AND PICTURE PROMPT USE HANDHELD

MOBILE WORKSTATION HANDHELD USE

Start Remote Use:

Click on the "**Start Remote**" icon on the main menu of the handheld to start using the handheld device. The handheld's screen will then be updated with the picture in picture screen on the workstation itself and key presses on the handheld such as **escape**, **enter**, **Y** and **N** can be used to interact with the workstation as applicable.

When the process where the handheld may be used is over, the picture in picture screen will close and the handheld should be left with the message "**Tap to exit**". You can then tap on the screen of the handheld to be returned to the main menu on the handheld.

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MOBILE WORKSTATION HANDHELD USE

BARCODE SCANNING - HANDHELD

Screens like the one below will appear anytime the workstation prompts for scanning a barcode with the handheld. The handheld's green SCAN button can then be pressed to scan a barcode from the handheld into the workstation.

Scan Vehicle VIN	JNS	v1.2 01/22/2010 02:17
Please scan the vehicle VIN barcode.		
	Please scan the vehicle VIN barcode.	
		Unable to Scan Cancel Inspection

FIGURE 13-2: SCAN VEHICLE VIN BARCODE MESSAGE (PROMPT TO USE HANDHELD)

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MOBILE WORKSTATION HANDHELD USE

GAS ANALYZER EMISSIONS TESTS - HANDHELD

During an emissions test that involves the gas analyzer, the RPM tracker will be available on the handheld for viewing inside the vehicle with the handheld. The enter and **arrow** keys at this point can be used on the handheld to click buttons on the screen as needed.



FIGURE 13-3: GETTING RPM VALUES (PROMPT TO USE HANDHELD)

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MOBILE WORKSTATION HANDHELD USE

At the end of a gas analyzer emissions test, the handheld will display the test complete

text the same as appears on the workstation screen.

TestComplete	SNS v1.2 01/22/2010 02:23	
The two speed idle test is complete.	RPMTEST1	
Turn the engine off.		
Remove the exhaust probe and RPM probe.		
The	wo speed idle test is complete.	
Turn the engine off.		
Remove	the exhaust probe and RPM probe.	
	OK	

FIGURE 13-4: TEST COMPLETE (HANDHELD MESSAGE)

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MOBILE WORKSTATION HANDHELD USE

MIL TEST - HANDHELD

The MIL test will display the prompts to perform the check on the handheld and will allow the responses to be entered via the keys on the handheld.

Key On Engine Off (KOEO)	NS v1.2 01/22/2010 02:35
Turn the key to the on position and keep the engine off.	со) овдмов
Is the Malfunction Indicator Lamp (MIL) on or flashing?	
Press 'Y' for yes or 'N' for no.	
not start continuou Is the	gnition key to the on position but do the engine. MIL illumination may be us or may stay on for a few seconds. Malfunction Indicator Light (MIL) illuminated?
	Yes No
Figure 13-5: Key On Engin	e Off (KOEO - Handheld Message)

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NEW JERSEY OPERATORS INSTRUCTION MANUAL MOBILE WORKSTATION HANDHELD USE Key On Engine Running **NS** (KOER) OBDMOB Start the vehicle's engine. Is the Malfunction Indicator Lamp (MIL) on or flashing? Press 'Y' for yes or 'N' for no. ignition key to start the engine and allow the vehicle to idle. MIL illumination may be continuous or may stay on for a few seconds. Is the Malfunction Indicator Light (MIL) illuminated? Yes No

FIGURE 13-6: KEY ON ENGINE RUNNING (KOER - HANDHELD MESSAGE)

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MOBILE WORKSTATION HANDHELD USE

OBD TEST - HANDHELD

The handheld will display notifications at the beginning and end of the OBD test so the inspector may stay in the vehicle the whole time after a successful connection is made until the end of the OBD test.



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FIGURE 13-8: EMISSIONS TEST COMPLETE (HANDHELD MESSAGE)

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