



# MVT

## Battery & System Analyzer

### Users Guide

*blank page behind cover*

---


# Contents

<b>1 – Introduction</b>	<b>5</b>
Personal Precautions	5
Symbols Conventions	5
Description	5
Consent to Collection and Use of Data:	5
Controls & Connections	6
Main Menu	6
Main Menu Selections	6
Initial Power Up	7
Data Collection Consent	8
Test Preparation	9
Inspecting the Battery	9
Testing Out-of-Vehicle	9
Testing In-Vehicle	9
Connecting To A Battery	9
<b>2 – In Vehicle Test</b>	<b>10</b>
System Test	11
Starter Test	12
Discharged Battery Test Flow	13
<b>3 – Out Of Vehicle Test</b>	<b>14</b>
Battery Test Results	15
<b>4 – Test History</b>	<b>16</b>
<b>5 – Software Update</b>	<b>17</b>
<b>6 – Settings</b>	<b>18</b>
WiFi	18
Tool	19
Shop Info	19
Language and Region	20
Clock	20
Printer	21
Reset	21
<b>7 – Maintenance &amp; Troubleshooting</b>	<b>22</b>
Tester Cables	22
Cleaning Clamps	22
Handling Test Cables	22
Storing Test Cables	22
Printer Paper	23
Replacing The Paper Roll	23



# 1 – Introduction

## Personal Precautions




<b>⚠ DANGER</b>	
	<p><b>Risk of explosive gases. Never smoke or allow a spark or flame in the vicinity of a battery.</b></p> <p>Batteries can produce a highly explosive mix of hydrogen gas and oxygen, even when the battery is not in operation. Always work in a well-ventilated area.</p>

<b>⚠ WARNING</b>
<p><b>Wash hands after handling.</b></p> <p>REQUIRED BY CALIFORNIA PROP. 65: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.</p>

Inspect the battery for damage and check the electrolyte level. If the electrolyte level is too low, replenish it and fully charge the battery. Always use the necessary safety precautions when working with batteries to prevent severe injury or death. Follow all manufacturers' instructions and BCI (Battery Council International) safety recommendations, which include the following precautions:

- ✓ Battery acid is highly corrosive. If acid enters your eyes, immediately flush them thoroughly with cold running water for at least 15 minutes and seek medical attention. If battery acid gets on your skin or clothing, wash immediately with a mixture of water and baking soda.
- ✓ Always wear proper safety glasses or face shield when working with or around batteries.
- ✓ Keep hair, hands, and clothing as well as the analyzer cords and cables away from moving engine parts.
- ✓ Remove any jewelry or watches before you start servicing the battery.
- ✓ Use caution when working with metallic tools to prevent sparks or short circuits.
- ✓ Never lean over a battery when testing, charging, or jump starting.

## Symbols Conventions

Symbol	Description
	The safety symbol indicates instructions for avoiding hazardous conditions and personal injury.
	The safety symbol with the words <b>CAUTION</b> , <b>WARNING</b> , or <b>DANGER</b> indicates instructions for avoiding hazardous conditions and personal injury.
	The wrench symbol indicates procedural notes and helpful information.

## Description

The analyzer uses function-specific applications accessed through a series of menus and icons to guide users through the battery testing process for consistent testing implementation and accuracy. These are accessed using the tester's touch screen display. Test results can be displayed on the full-color screen, printed, or wirelessly emailed.

## Consent to Collection and Use of Data:

You agree that Midtronics, Inc. may collect, store, transmit, and use technical data and related information, including but not limited to technical information about this device, system and application software, and accessories, that is gathered periodically to facilitate the provision of product support, product improvements, product development, and other services related to use of this device. If electing to collect personal data (such as e-mail addresses) the user is solely responsible for obtaining any necessary permissions, and agrees to indemnify and hold harmless Midtronics, Inc. its subsidiaries, officers, employees and agents from any liability associated with collecting, storing, and transmitting such personal data.

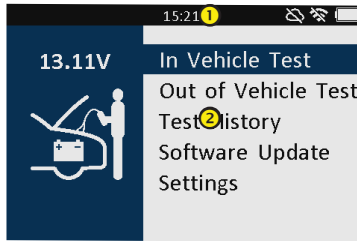
**Controls & Connections**






- ① Display Screen
- ② Menu Navigation and Power Button
- ③ DC Power port
- ④ Micro -USB port
- ⑤ Thermal Printer (optional)
- ⑥ Clamp Tabs
- ⑦
- ⑧ Replaceable Li-Ion rechargeable batteries



**Main Menu**



① **Menu Bar**

	BMIS Network Connectivity Status		Internal battery status
	WiFi signal strength		

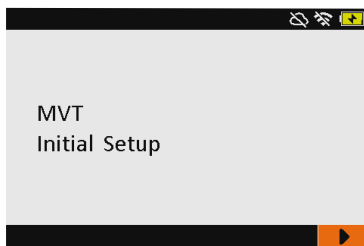
② **Main Menu Selection Area**

**Main Menu Selections**

Function	Description
In Vehicle Test	For testing batteries that are connected to and installed in a vehicle. An In Vehicle Test includes a Battery Test and a System (Starter and Charging) Test.
Out of Vehicle Test	For testing batteries not connected to or removed from a vehicle.
Test History	Access archived test histories.
Settings	Setup/adjust: Wifi, tool settings, shop information, language & region selection, clock and printer settings. View firmware versions .

## Initial Power Up

The tester will take a few moments when powered up for the first time.



1. Click on ► to start initial set-up proces. Set-up will advance to next screen as selection is made. Click ◀ or ► to advance through selections, click on ◀ at lower left to go back a screen.

**2 Select Language**

**3 Select Region**

**4 Select Country**

**5 Select desired tool settings**

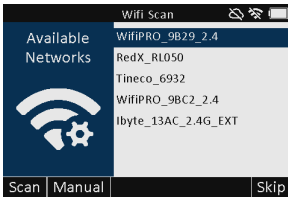
6. Click on End-User Agreement



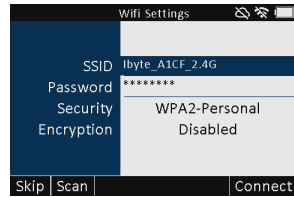
## WiFi Settings

The MVT will automatically start scanning for available Wi-Fi networks. Click ◀ or ▶ to advance through selections. Select **Skip** to stop this process.

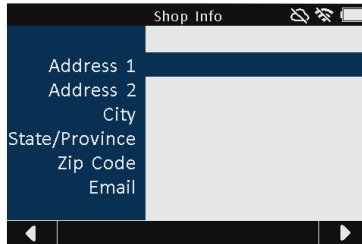
1 Browse available networks  
(or select 'Manual')



2 Enter SSID/password select 'Connect'



3. Enter additional Network info if needed.
4. Once successfully connected to network, enter Time and Date formats. Select ◀ or ▶ to navigate through selections.
5. Enter shop information if needed. Select ▶ to continue.



6. Initial setup is complete. Tester will now display the Main menu.

## Data Collection Consent

Select **Accept** to acknowledge test data is being collected via BMIS.

## Test Preparation

### Inspecting the Battery

Before starting the test visually inspect the battery for:

- Cracked, buckled, or leaking case. If you see any of these defects, replace the battery.
- Corroded, loose, or damaged cables and connections. Repair or replace them as needed.
- Corrosion on the battery terminals, and dirt or acid on the case top. Clean the case and terminals using a wire brush and a mixture of water and baking soda.
- Low electrolyte level. If the electrolyte level is too low, add distilled water to fill up to ½ above the top of the plates and fully charge the battery. Do not overfill.
- Corroded or loose battery tray and hold-down fixture. Tighten or replace as needed.

### Testing Out-of-Vehicle

The preferred battery test location is In-Vehicle. However, for testing Out-Of-Vehicle:

- Always disconnect the negative cable from the battery first and reconnect it last.
- Always use a carry tool or strap to lift and transport the battery.

#### **WARNING**

**Failure to properly install lead terminal adapters, or using adapters that are dirty or worn, may cause false test results.**

When testing side-post or Group 31 batteries, always use lead terminal adapters provided with the tester—do not test at the battery's steel bolts. To avoid damage, never use a wrench to tighten the adapters more than ¼ turn.

### Testing In-Vehicle

The preferred test position is at the battery posts. If you must test at a remote-post location, it should have both a positive and negative post. Otherwise, you must remove the battery and perform an out-of-vehicle test.

At the start of the test, make sure all vehicle accessory loads are off, the key is not in the ignition, and the doors are closed.

### Connecting To A Battery

#### **CAUTION**

Do not connect the tester to a voltage source greater than 30 Vdc.

Connect the clamps to the tester: the red clamp to the positive (+) terminal and the black clamp to the negative (–) terminal. If the clamps are reversed when connected, the tester displays CLAMPS REVERSED! Reconnect the clamps.

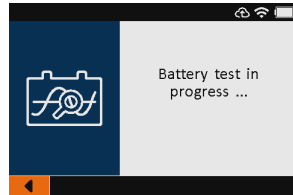
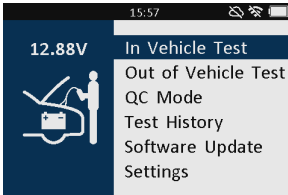
Make sure both sides of the clamps are gripping the terminals by rocking each clamp back and forth. A poor connection will prevent testing, and the tester will display a CHECK CONNECTION message. If the message reappears after reconnecting, clean the terminals and reconnect.

## 2 – In Vehicle Test

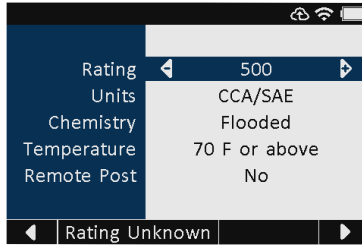
### In Vehicle Test

Use **In Vehicle Test** to perform a battery test on in-vehicle batteries using manually entered test parameters or through MVT's Quick Test. A system test for starter and alternator is also available.

- 1 At the Main Menu, select 'In Vehicle Test'
- 2 The Battery Test will be performed



3. Enter battery details if needed. Select ▶ to continue.



Rating	Use < or > to increase or decrease battery rating
Units	CCA, CA, DIN, SAE, IEC, EN, EN2 MCA
Chemistry	Flooded, AGM, AGM Spiral, EFB, Gel
Remote Post	Yes or No

Rating	Description	Range
CCA	Cold Cranking Amps (specified by SAE): the amount of current a battery can provide at 0°F (-17.8°C).	100-3000
CA	Cranking Amps: The amount of current a battery can provide at 32°F (0°C)	
JIS	Japanese Industrial Standard: usually printed on the battery label	Part No.'s
DIN	Deutsche Industrie-Norm	100-1000
SAE	Society of Automotive Engineers: European labelling of CCA	100-3000
IEC	International Electrotechnical Commission	100-1000
EN	Europa-Norm	100-1700
EN2		
MCA	Marine Cranking Amps	100-3000

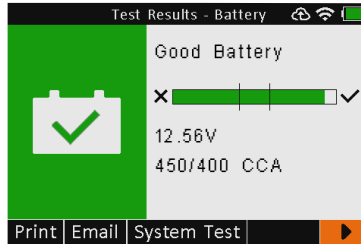


**NOTE:** In some instances, a quick decision may be returned with no user input. This occurs in cases where the battery meets certain conditions indicating a battery is in excellent condition or poor condition

4. In the following cases, a starter test will be required for the MVT to render a battery decision:
  - a. The MVT's initial decision is Charge and Retest
  - b. System Noise is detected
  - c. The battery's details are not available, select Rating Unknown.

See **Starter Test** for details.

5. The battery test result screen will provide a color-coded test result along with the battery voltage, rating CCA and measured CCA values.

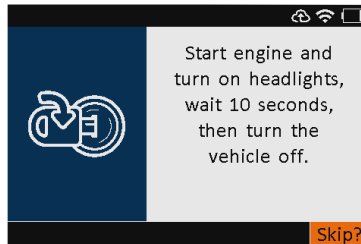


Select **System Test** to start the starter and alternator test, **Print** to print results, **Email** to send results or ► to finish the test.

### System Test

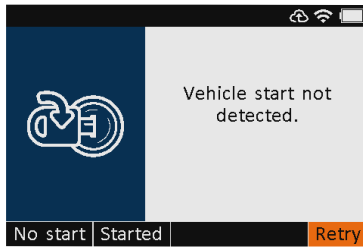
After the battery test has finished, a **System Test** can be performed including a starting and charging system test

1. Start the engine and allow it to idle for 10 seconds.

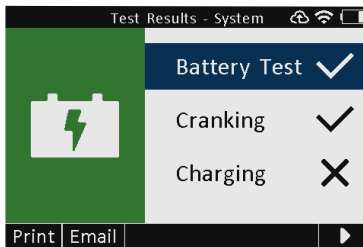


MVT will detect that the vehicle has started, and an alternator test will be automatically performed. Turn the engine off after the 10 second countdown is complete.

- 2. If the System Test does not automatically detect the vehicle start after 30 seconds, perform the test manually by selecting **No Start** or **Started** from the options at the bottom. Select **Retry** to attempt an automatic test. Start the vehicle's engine and let it idle.



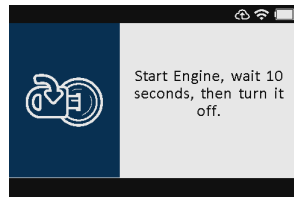
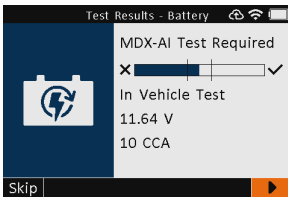
- 3. The final test result screen will show color-coded results for the battery test, starter and alternator. Select each test to display individual results. See **Battery Test Result** section for details. , Select **Print** to print results, **Email** to send results or ► to finish the **System Test**.



**Starter Test**

In specific cases the MVT will require a starter event to provide a battery test result. These cases include an initial result of **Charge and Retest**, **Vehicle System Noise** or if **Rating Unknown** is selected.

**1** Select ► to start the **Starter Test**.      **2** Start Engine, allow it to run for 10 seconds, then turn engine off.

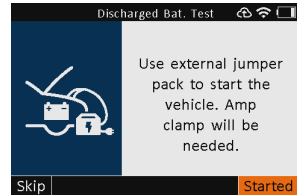
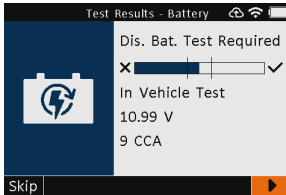


## Discharged Battery Test Flow

If the MVT determines that the battery being tested is severely discharged (voltage less than 11.4 volts), it will start the Discharged Battery Test process. This test requires either a jump starter or a battery charger to be completed.

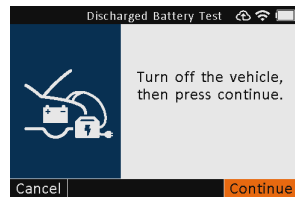
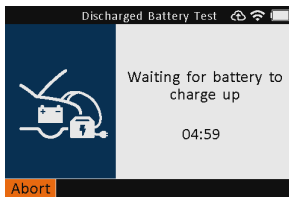
Selecting **Skip** will end this test and result in a Charge & Retest decision.

- 1 Select **▶** to start the Discharged Battery Test.
- 2 Connect the jump starter or battery charger to the discharged battery.

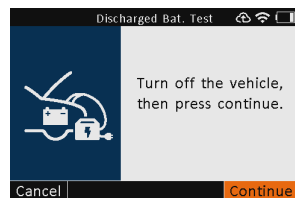
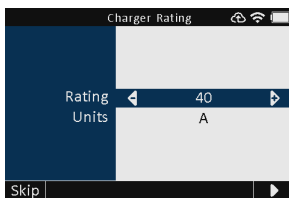


- 3 Refer to the instructions of the jump starter or the battery charger for the appropriate charge levels of the discharged battery

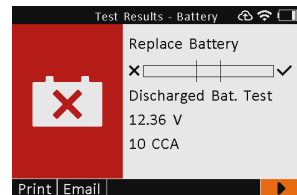
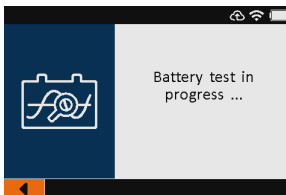
- 4 A 5 minute timer will count down as the battery charges. Select **Abort** to stop test.
- 5 Turn off the vehicle and press **Continue**.



- 6 Enter the rating used to jump start or charge the battery
- 7 Disconnect the jump start or charger from the battery and press **Continue**.



- 8 The MVT will retest the battery, and the Results Screen will be displayed.



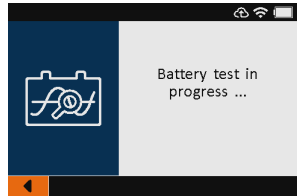
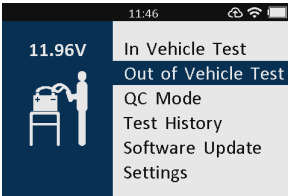
The battery test result screen will provide a color-coded test result along with the battery voltage, rating CCA and measured CCA values. From this screen select **Print** to print results, **Email** to send results or **▶** to complete the **System Test**.

### 3 – Out Of Vehicle Test

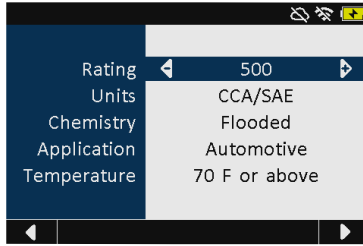
## Out of Vehicle Test

Use **Out Of Vehicle Test** to test and verify the condition of a battery that is not connected to a vehicle.

- 1 At the Main Menu, select 'Out of Vehicle Test'
- 2 The Battery Test will be performed

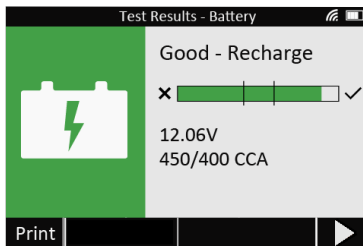


- 3. Enter battery details , select ► to continue.



Rating	Use ◀ or ▶ to increase or decrease battery rating
Units	CCA, CA, DIN, SAE, IEC, EN, EN2, MCA
Chemistry	Flooded, AGM, AGM Spiral, EFB, Gel
Application	Automotive, Powersport, Marine, Lawn and Garden, Group 31, Commercial 4D/8D
Temperature	Select range

- 4. The battery test result screen will provide a color-coded test result along with the battery voltage, rating CCA and measured CCA values.



Select **Print** to email or print results or ► to finish the test.

## Battery Test Results

Icons are colour-coded to indicate status.



Battery



Cranking



Charging

### Battery Test Results Explanation



All test parameters were completed and have passed.



The battery has failed the test.

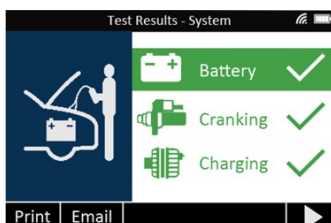


Charging required

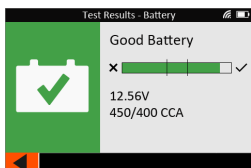


Some test parameters require further testing.

The final test result screen will show color-coded results for the battery test, starter and alternator. Selecting test results individually will display the results for that test.

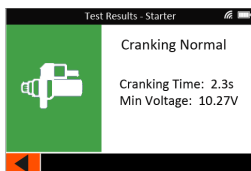


Battery Test Results include:



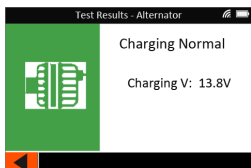
- 1 Battery test decision
- 2 State of Health graph
- 3 Final voltage
- 4 Measured rating

Cranking Test Results include:



- 1 Starter test decision
- 2 Cranking time
- 3 Starter voltage

Alternator Test Results include:



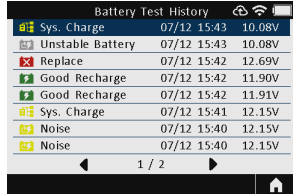
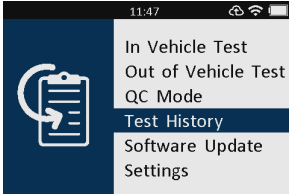
- 1 Alternator test decision
- 2 Charging voltage

# 4 – Test History

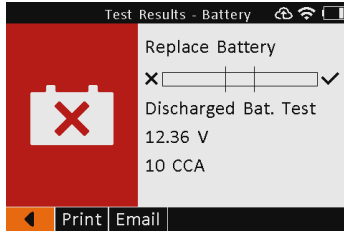
## Test History

Use **Test History** to access historical test data. Histories are sorted by the date/time that the test was completed. Results can be displayed, emailed and/or printed

- 1 At the Main Menu, select 'Test History'
- 2 The most recent tests are displayed.



- 3. Scroll up ▲ or down ▼ to locate the desired record, then press ■ to view the results.



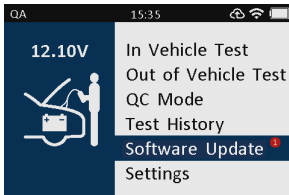
- 4. Results can be printed or emailed. Select **Print** to send results to the integrated printer. Select **Email** to send results to the intended recipient, entering the email address using the navigation keys and the alphanumeric keyboard on the screen. Press ► to send.
- 5. Press the Home button to return to the Main Menu.

## 5 – Software Update

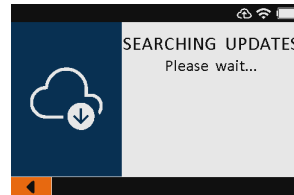
### Software Update

The MVT will occasionally require updates, including for newly supported technologies and processes. Updates are completed over-the-air and require a high-speed wireless internet connection.

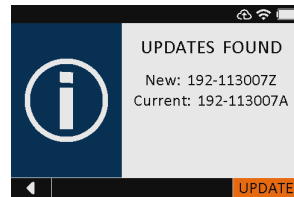
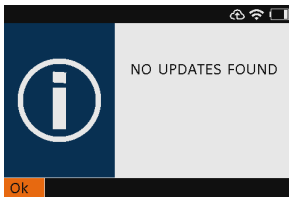
- 1 At the Main Menu, select 'Software Update'



- 2 The MVT will automatically begin to search for outstanding updates.



- 3 If MVT has the most current software version 'No Updates Found' will display. Click 'OK' to return to the Home Screen.
- 4 'Updates Found' will display if a newer software version is available.



5. Select 'Update' to begin. It can take several minutes to complete. To cancel the update or return to the Home Screen, press the back button.

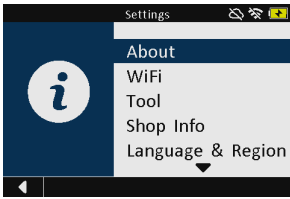
# 6 – Settings

## Settings

Use the **Settings** menu to adjust tool, clock, and shop information, connect to Wifi networks, view software and tester details, or reset the tester to factory defaults.

Press ▲◀▶▼ to return to the previous screen, select options and when necessary, ■ to enter or continue to the next step.

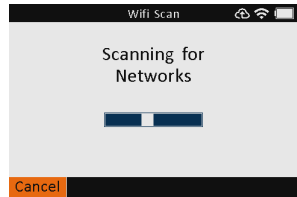
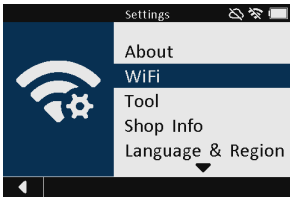
- 1 In the Settings Menu, select 'About'
- 2 The tool ID info., current installed software and network ID, addresses and configuration are displayed.



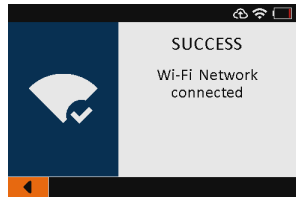
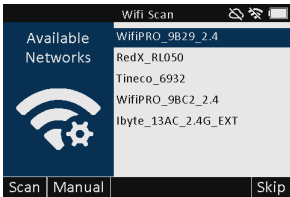
- 3. Select EULA to view the End Users License Agreement, press ◀ to exit the EULA, then press ◀ again to return to the Settings main screen.

## WiFi

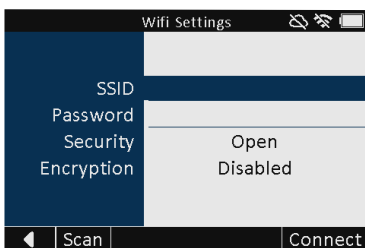
- 1 Check current WiFi configuration details or a new connection in the WiFi menu.
- 2 If not connected, MVT will automatically perform a network scan and display available networks.



- 3 Select a network, or select 'Scan' to rescan networks, or 'Manual' to enter a network name and password.
- 4 When the connection is successful, press ◆ to return to the Settings menu.



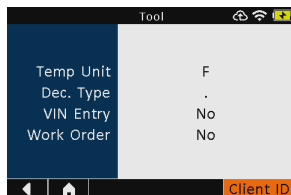
5. If the tester currently has a network connection, the SSID and Password will be displayed.



6. Press 'Connect' to complete the connection to the current network. To change networks, press 'Scan' to look for available connections or select 'Manual' to enter the SSID. Enter the password, then select Security and Encryption type, then press 'Connect'. When the connection is successful, press **◆** to return to the Home menu. If there's a connection error, select 'Cancel' to return to the WiFi settings screen to verify details, or select 'Retry'.

## Tool

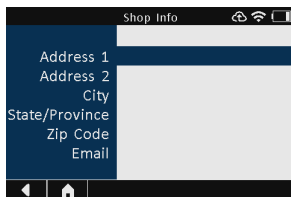
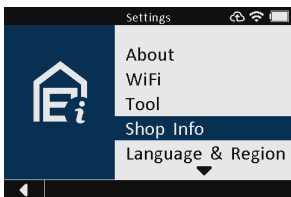
- 1 The 'Tool' menu allows the user to set the parameters for the MVT. 2 Temperature, decimal type, and VIN and Work Order preferences are set.



3. Press **■** to select which field to modify, **◀** and **▶** to make changes, and press **■** to confirm. Select 'Client ID' if you have been provided a BMIS login, password and continue to next step.

## Shop Info

- 1 The 'Shop Info' menu allows the user to set information displayed on MVT. 2 The Shop Info can be entered, edited, or deleted.

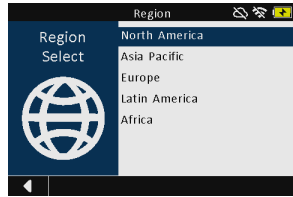


With the keypad arrows, select the field. Press **■** to select which field to modify, **◀** and **▶** to navigate the digital keyboard, pressing **■** to perform alphanumeric selections. Select the **▲** to access the upper case and symbol character maps. Select **◀** to return to the Settings menu, or click Home to return to the Home screen.

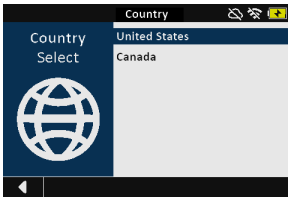
### Language and Region

With the keypad arrows, select the field. Press **■** to select which field to modify, **◀** and **▶** to navigate the digital keyboard, pressing **■** to perform alphanumeric selections. Select the **▲** to access the upper case and symbol character maps. Select **◀** to return to the Settings menu, or click Home to return to the Home screen.

- 1 The 'Language & Region' menu allows the user to set preferences on language and any regional specifications displayed or used on MVT.
- 2 Use the keypad to select 'Region' and select regional location from the list.



- 3 Select the country within the chosen region.
- 4 Select 'Language' and select preference from the list

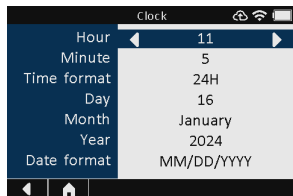
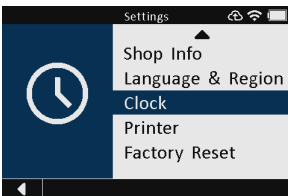


### Clock

Select the ▼ to access additional Settings.

Select the field by scrolling vertically using ▲▼, then scroll thru selections using ◀▶ to make changes.

- 1 Select 'Clock' from the menu.
- 2 Set the current time and date along with preferred formats.



For the time, set the current hour, minute, and 12- or 24-hour time format.

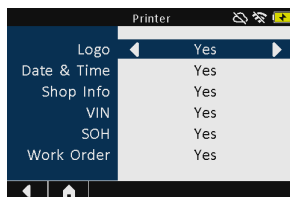
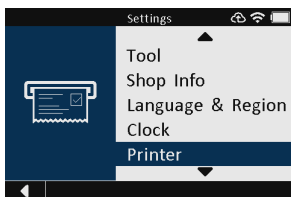
For the date, set the day, month, year, and preferred date format Month/Day/Year (MM/DD/YYYY) or Day/Month/Year (DD/MM/YYYY).

Click the Back button to return to the Settings menu, or click [Home] to return to the Home screen.

## Printer

Select the field by scrolling vertically using ▲▼, then scroll thru selections using ◀▶ to make changes.

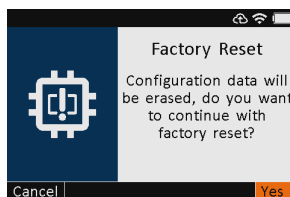
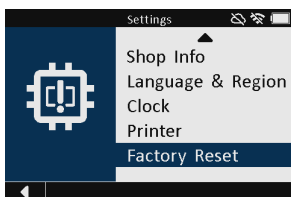
- 1 Select 'Printer' from the menu.
- 2 Change the format of the printout by enabling or disabling logo, date/time, shop information, VIN, state-of-health graph and work order number..



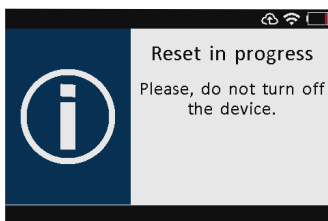
## Reset

Select the field by scrolling vertically using ▲▼, then scroll thru selections using ◀▶ to make changes.

- 1 Select 'Factory Reset' from the menu. Factory Reset is used to return the MVT back to the original settings it had when manufactured.
- 2 The tool prompts to continue with factory reset or cancel. Select 'Yes' to proceed, or select 'Cancel' to return to the Settings menu.



3. Once Factory Reset has been confirmed, 'Reset in Progress' will be displayed. Leave the MVT powered on until the reset has been completed.



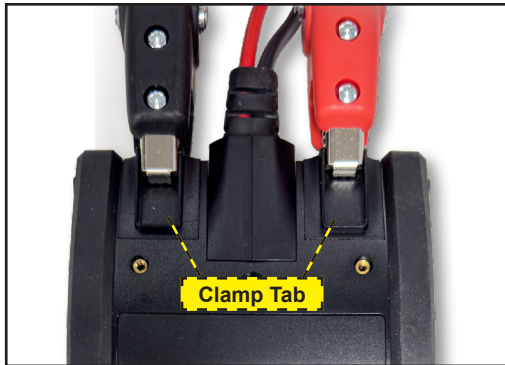
## 7 – Maintenance & Troubleshooting

### Tester Cables

The test cables that come with your analyzer are consumable items. Cables are like tires in that the more you use them and the harder you drive them, the shorter their useful life. Here are a few things you can do to protect your test cables from damage and premature wear:

#### **Cleaning Clamps**

- The grease, dirt, and sulfation that build up on battery terminals are highly corrosive and can damage the clamps over time. Before connecting the clamps, ensure accurate test readings and protect the clamps by cleaning the battery case and terminals using a wire brush and a mixture of water and baking soda.
- Periodically clean the clamps using a mixture of baking soda and water, or a mild hand-soap, and a small bristle brush.
- To protect the clamps from oil and dirt, clip them to the Clamp Tab on the back of the analyzer.



#### **Handling Test Cables**

- Always connect and disconnect the clamps to the battery by opening and closing the clamps. Never pull on the test cables to remove the battery clamps. Pulling can damage the Y-junction, the cables, and the clamps to the extent that the analyzer may produce lower-than-expected conductance readings or fail completely.
- Never carry the analyzer by the cables. Carrying the analyzer or swinging it by the cables puts unnecessary strain on the cables and can result in premature failure. Handle the analyzer with care to get the maximum use from the product.

#### **Storing Test Cables**

- Never wrap the cables around the analyzer; this puts unnecessary strain on the test cables.

Because the test cables are the “tires” of the analyzer, they have a certain life expectancy and will wear out eventually. However, the abuse examples cited above are not covered under warranty. To ensure the best performance and longest life of the test cables, attach and remove them with care, and carry the analyzer and cables together.

If an inspection or a change in test results indicate that the test cables need to be replaced, call Midtronics Customer Service at 1-800-776-1995.

## Printer Paper

The internal printer is shipped with a roll of 2¼" wide by 17⁄8" in diameter thermal printing paper installed. Replacement rolls are available through Midtronics or online office supply websites.



**NOTE:** Due to production variances some paper roll diameters may be too large. Please remove paper from roll to recommended 17⁄8" diameter. **DO NOT** force cover to close if roll is too large.



**NOTE:** The analyzer uses only thermal printing paper.

### Replacing The Paper Roll

1. Unlock the printer door by gently lifting up on the release.



2. Lift the printer door and remove the spent roll.



3. Place a new roll of paper in the compartment. The paper feeds from the bottom of the roll.
4. Pull the paper forward so that it extends past the serrated edge at the top of the printer door.



5. Close the door and make sure the lever locks securely. For a clean tear, pull the paper along the serrated edge. **Do not pull the paper straight out of the printer.**

**PATENTS**

This product is made by Midtronics, Inc., and is protected by one or more U.S. and foreign patents. For specific patent information, contact Midtronics, Inc. at +1 630 323-2800.

**LIMITED WARRANTY**

Midtronics products are warranted to be free of defects in materials and workmanship for a period of one (1) year from date of purchase. Midtronics will, at our option, repair or replace the unit with a re-manufactured unit. This limited warranty applies only to Midtronics products, and does not cover any other equipment, static damage, water damage, overvoltage damage, dropping the unit, or damage resulting from extraneous causes including owner misuse. Midtronics is not liable for any incidental or consequential damages for breach of this warranty. The warranty is void if owner attempts to disassemble the unit or to modify the cable assembly.

**SERVICE**

To obtain service, contact Midtronics at 866-592-8052. Have your model and serial numbers ready. This first step is critical as we will trouble-shoot the problem(s) over the phone, and many problems are resolved during this step. If the problem cannot be resolved, then the Customer Service Agent will issue you a Return Material Authorization (RMA). This number becomes your tracking number. The final step is to return the unit to Midtronics freight prepaid (you pay), to the attention of the RMA number obtained.

**In USA:**

Midtronics, Inc.  
Attn: RMA # xxxxx (this is the RMA number that you must obtain from Midtronics)  
7000 Monroe St.  
Willowbrook, IL 60527

**In Canada:**

Midtronics c/o FTN (FTN is Fed-ex Trade Networks –this is NOT a Midtronics facility)  
Attn: RMA # xxxxx (this is the RMA number that you must obtain from Midtronics)  
7075 Ordan Drive  
Mississauga, ON L5T1K6

Midtronics will service and return the unit using the same type of service as received. If Midtronics determines that the failure was caused by misuse, alteration, accident, or abnormal condition of operation or handling, purchaser will be billed for the repaired product and it will be returned freight prepaid with shipping & handling charges added to the invoice. Midtronics products beyond the warranty period are subject to the repair charges in place at that time. Optional re-manufacturing service is available to return our products to like-new condition. Out-of-warranty repairs carry a 3-month warranty. Re-manufactured units purchased from Midtronics are covered by a 6-month warranty.

**MIDTRONICS**[www.midtronics.com](http://www.midtronics.com)**Corporate Headquarters**

Willowbrook, IL USA  
Phone: 1.630.323.2800  
Canadian Inquiries  
Toll Free: +1 1 866 592 8052

**Asia/Pacific (excluding China)**

Contact Corporate Headquarters  
Phone: +1.630.323.2800

**Midtronics b.v.**

European Headquarters  
Houten, The Netherlands  
Serving Europe, Africa, the Middle  
East, and The Netherlands  
Phone: +31 306 868 150

**Midtronics China**

China Operations  
Shenzhen, China  
Phone: +86 755 2374 1010

**Midtronics India**

Navi Mumbai, India  
Phone: +91 22 2756 4103/1513