

ICON™

Tire Pressure Sensor Activator & Programmer



Owner's Manual



WARNING

Read this manual before using this product.
Failure to do so can result in serious injury.

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WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

WARNING

Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

Work Area Safety

1. Keep work area clean and well lit. Cluttered benches and dark areas may cause accidents.
2. Do not connect or disconnect the Tool while the engine is running.
3. **DO NOT attempt to operate the Tool while driving the vehicle.**
4. Before testing a vehicle, put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission). Engage the parking brake and chock the tires.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. **Operating a vehicle indoors CAN KILL YOU IN MINUTES.** Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell. NEVER operate vehicle inside a home or garage, EVEN IF doors and windows are open. Only use OUTSIDE and far away from windows, doors, and vents.
7. Do not operate the Tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.

8. Never leave the vehicle unattended while running tests.

9. Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.

10. Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.

11. Keep bystanders, children and visitors away while operating the Tool.

12. This product is not a toy. Do not allow children to play with or near this item.

13. Use as intended only. Do not modify.

14. Inspect before every use; do not use if parts are loose or damaged.

15. Do not place the Tool on any unstable surface.

16. Handle the Tool with care. If the Tool is dropped, check for breakage and any other conditions that may affect its operation.

17. Keep the Tool dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the Tool when necessary.

18. Store the Tool and accessories in a locked area out of the reach of children.

19. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Electrical Safety

1. Do not use the Tool while standing in water.

2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.

3. **Do not expose the Tool or Power Adapter to rain or wet conditions.** Water entering the Tool or Power Adapter increases the risk of electric shock.

Service

There are no user serviceable parts. Have the Tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained.



SAVE THESE INSTRUCTIONS

Specifications

TPMS Tool	
Battery type	Rechargeable Li-Po 4.2V 3000 mAh
Battery life	Approximately 1,000 activations per full charge
Response frequency	Frequencies: 125khz
Display	4.3" LCD touch screen
Temperature	Operation: -20°C to +45°C (-4°F to 131°F) Storage: -20°C to +45°C (-4°F to 131°F)
Altitude	Maximum Operating Altitude: 3000m (10000ft)
Environment	Indoor/Outdoor Use (<80% Humidity)
Connectivity	125khz RF Exposure Information The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Overview

OBD II On-Board Diagnostics

It is required by the EPA that all 1996 and newer vehicles sold in the United States be equipped with an OBD II computer system.

OBD II is an early warning system designed to monitor engine, transmission, and emissions control components by performing specific diagnostic tests.

When a fault condition is detected, the system captures important data and activates the "Check Engine" light.

If the light comes on, the vehicle might have a condition that wastes fuel, shortens engine life, or causes excessive air pollution. If the problem that caused the light to come on is addressed, for instance a loose gas cap is tightened, the light will go out.

If the light comes on and stays on, a minor engine fault condition is occurring and should be addressed as soon as possible.

If the light is blinking, a severe engine fault condition is occurring and should be addressed immediately.

The Tool connects to the vehicle's computer system and captures information that can help identify the fault condition.

Vehicle Coverage

This Tool is designed to work with all OBD II compliant vehicles, including those equipped with a CAN bus.

OBD II was installed in some 1994 and 1995 model year gasoline vehicles.

To verify if a 1994 or 1995 vehicle is OBD II compliant, check the Vehicle Emissions Control Information label, which is located in the engine compartment.

Components and Controls



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Top and Front Panel



Tool Back Panel



- | | |
|-----------------------|------------------------------|
| 1. OBD II Cable Port | 6. Cancel/Back Button |
| 2. VIN Tool | 7. Confirm/Next Button |
| 3. USB/Charging Port | 8. Directional Buttons |
| 4. Antenna | 9. Activate/Trigger Button |
| 5. LCD Display Screen | 10. Power ON/OFF |
| | 11. Tool/Battery Information |

SAFE

OVERVIEW

MAINTENANCE

COOPERATION

SETUP

Tool Components

Carry Case

OBD II Cable

Power Adapter

USB Cable

TPMS Tool



Setup

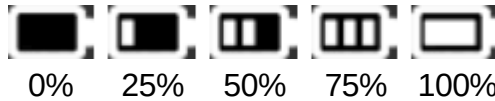


Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Charging the Battery

NOTICE: Only use the Power Adapter included with the Tool. Use of any other adapter will damage the unit. Always charge on a non-flammable surface in a well-ventilated area.

1. To check the battery power level, Locate the battery icon at the top right corner of the screen. Battery level is displayed by small bars within the icon.



2. When the battery reaches 0%, the battery level indicator flashes and the tool switches off after 10 seconds.



Outlet Charging

1. Insert the USB cable into the power adapter.
2. Insert the other end into the USB port located on the top of the tool.
3. Plug the power adapter into a wall outlet.

4. The charging symbol will appear on the Tool screen, indicating the battery is charging.

5. When charging is finished, the solid battery symbol replaces the charging symbol. Unplug the power adapter from its outlet and disconnect the USB Cable from the Tool.

Charging with a Computer

1. Insert the USB cable into a USB port on the computer.
2. Insert the other end into the USB port located on the top of the tool.

3. The charging symbol will appear on the Tool screen, indicating the battery is charging.

4. When charging is finished, the solid battery symbol replaces the charging symbol. Unplug the USB cable from the tool and the computer.

Power ON/OFF

1. Press and hold the Power Button about two second to turn on the Tool. The system starts initializing and then enters the Home screen.,

2. To turn the Tool off, press and hold the Power Button about two seconds.

Screen Layout

On-Screen Buttons

There are multiple on-screen controls located throughout various functions on the tool.



Confirm - Confirm a selection.



Cancel - Cancel a selection.



Home - Return to the home screen.



VIN - Initiate the VIN scan process.



Home - Jump to therelearn procedure screen.



Instructions - View relearn procedure instructions.



Edit - Enter/edit job information.



Save - Save job information.



OBD II - Send sensor information the vehicle's ECU.



Clear - Clear any current TPMS diagnostic trouble codes.



Vehicle - Return to the main vehicle screen.



Search - Search for a job in the history function.



Forward - Move forward a page in the history function.



Back - Move back a page in the history function.



Delete - Delete a job in the history function.



Settings

Changing Language

The TPMS Tool supports multiple languages. Use the following procedure to change the language of the Tool:

1. On the **Home** screen, touch **Settings > Language**.
2. Choose the desired language from the list

Note: When choosing a different language, the Tool will need to load the information. This may take a few moments.

Changing Units

The TPMS Tool supports displaying pressure/temperature in both imperial and metric.

1. On the **Home** screen, touch **Settings > Units**.
2. Choose a desired pressure unit from the list.
(kPa/Bar/PSI).

3. Choose a desired temperature unit from the list.
(°C/°F).

Changing ID Format

When entering and displaying sensor IDs, the tool can be setup for decimal or hexadecimal formats.

1. On the **Home** screen, touch **Settings > ID Format**.
2. Choose a desired ID Format from the list.
(Auto/Decimal/Hexadecimal).

Auto - Automatically selects the appropriate format.
Decimal - Displays sensor IDs using (0-9).
Hexadecimal - Displays sensor IDs using (A-F) (0-9)

Turning Sound ON/OFF

When activating/triggering sensors, an audible beep can be turned ON or OFF

1. On the **Home** screen, touch **Settings > Sound**.
2. Choose a desired option from the list.
(ON/OFF).

Setting Auto OFF Time

When the Tool is not in use, it will automatically turn OFF to conserve battery. The amount of time before this happens can be changed.

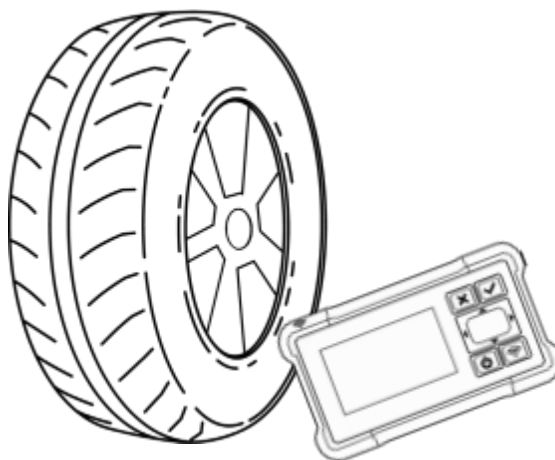
1. On the **Home** screen, touch **Settings > Auto OFF**.
2. Using the on-screen +/- buttons, or using the directional up/down arrows choose the desired option.
(down to DISABLED, or up to 60 minutes).

Sensor Activation & Vehicle Connections

Tool Placement

When activating TPMS sensors, proper tool placement is essential to ensure proper readings.

When activating a sensor, make sure to place the tool's antenna on the tire sidewall pointing towards the sensor. Do not place the tool's antenna on the rim or valve stem, Attempting to activate the sensor through metal can cause interference and a failed reading.

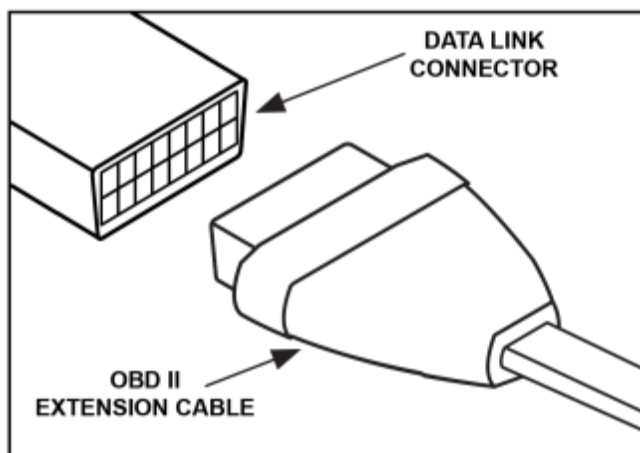
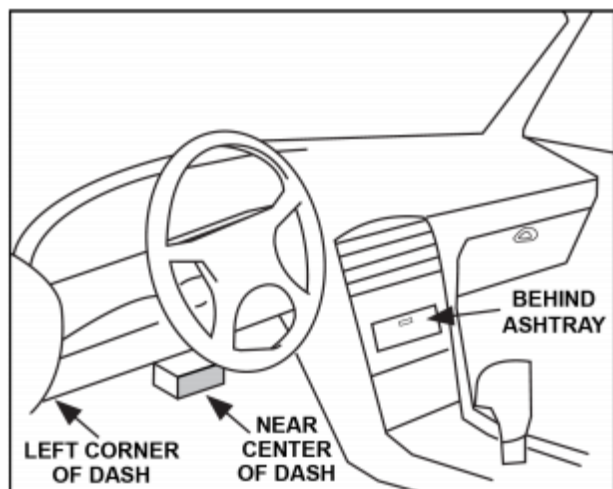


OBD II Vehicle Connection

Directly plug the Tool into vehicle's DLC using supplied OBD II cable.

1. Locate the vehicle's Data Link Connector (DLC). The 16-pin DLC is usually located under the dashboard, within 12 inches of the center of the panel, on the driver's side of most vehicles. Check the vehicle's service manual for the exact location.

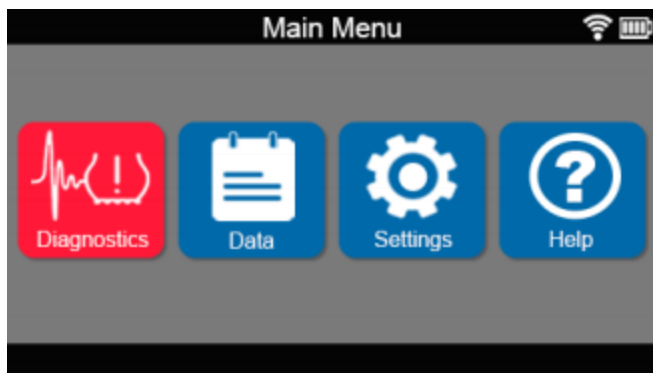
2. Plug one end of the OBD II cable into the OBD II Port on the top of the tool, ensuring to screw it in as well. Plug the other end of the cable into the vehicle's DLC. An OBD II icon will display on the top of the tool's screen.



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Main Menu

Turn on the Tool by holding the power button down for about 2 seconds. After a few moments the Main Menu will be displayed.



Diagnostics:

All of the main functions of the tool are located within *Diagnostics*. Activate sensors, program sensors, perform relearns, and more.

Settings:

Edit and configure various settings.

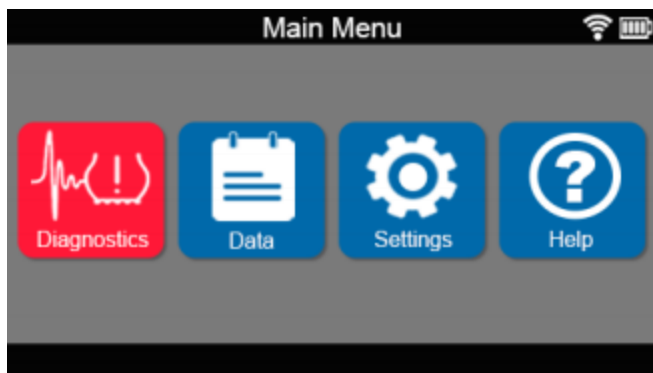
Help:

View tool information, and technical support information.

Selecting a Vehicle

Manual Selection

1. From the Main Menu, select **Diagnostics**.



2. Select the desired vehicle Make.



3. Select the desired vehicle Model.



4. Select the desired vehicle Year.

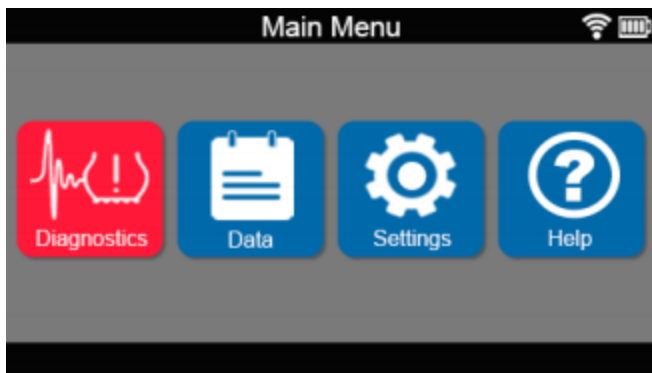


5. The Diagnostics screen will be displayed with various functions. **Note:** The screens displayed in this manual are examples. Not all vehicle's share the same functionality.



VIN Scan

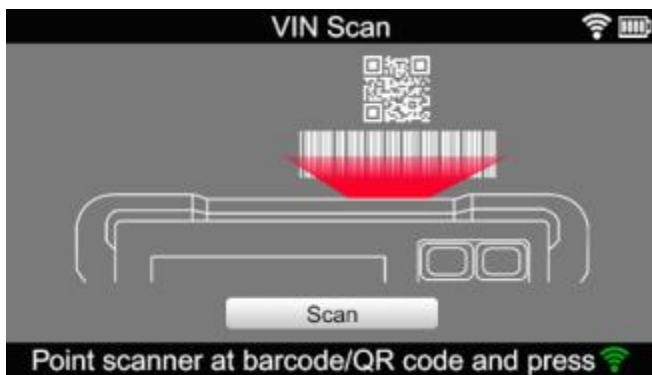
1. From the Main Menu, select **Diagnostics**.



2. Select the VIN Scan barcode icon at the bottom of the screen.

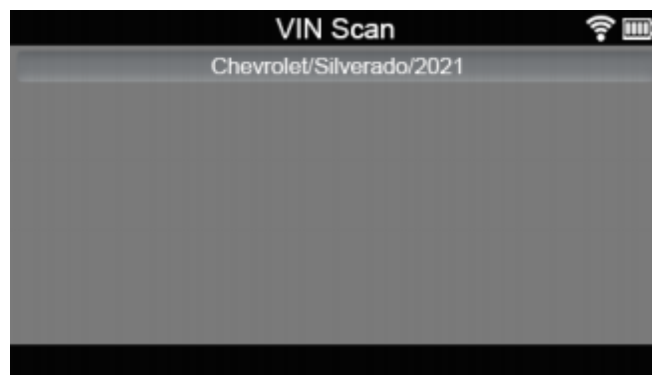


3. Point the Tool's VIN scanner at the VIN barcode/QR code on the vehicle and select Scan.



The VIN scanner is located on the top of the tool.

4. The Tool will confirm the scanned vehicle. Select the vehicle to continue.



5. The Diagnostics screen will be displayed with various functions. **Note:** The screens displayed in this manual are examples. Not all vehicle's share the same functionality.



Diagnostics

Sensor Status

The Sensor Status function is used to perform a check of the TPMS sensors installed in the vehicle before performing any service.

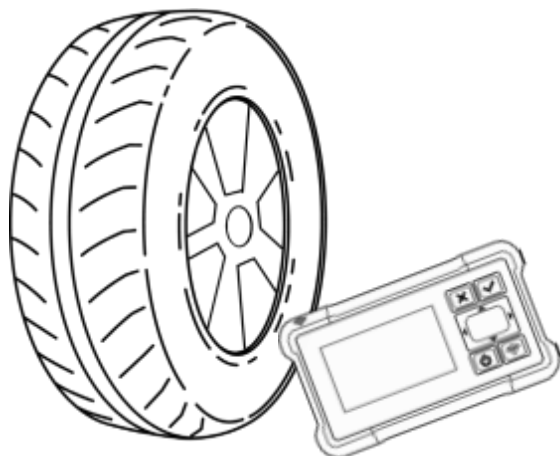
1. From the Diagnostics screen, select **Sensor Status**.



2. The Sensor Status screen will be displayed with a vehicle display, a chart for all sensor information, as well as shortcuts to jump to therelearn screen, edit job info, or return home



3. To begin activating a sensor place the tool's antenna on the tire sidewall and press the trigger button on the tool itself or  on the vehicle display on-screen.



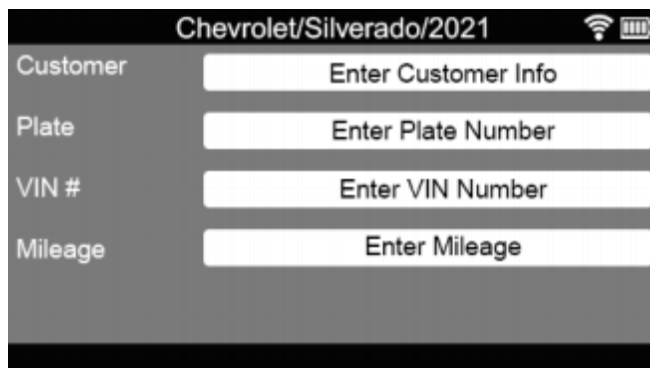
4. The Tool will display all sensor information including; sensor ID, pressure, frequency, temperature, and battery status.



5. Repeat the process for the remaining sensors.



6. Job information can be entered and saved by selecting the  icon at the bottom of the screen. Enter information by using the on-screen keyboard.



Manual TPMS Relearn

This section will go over the process of relearning the TPM system using a set of vehicle-specific instructions

1. From the Diagnostics screen, select **Relearn**.



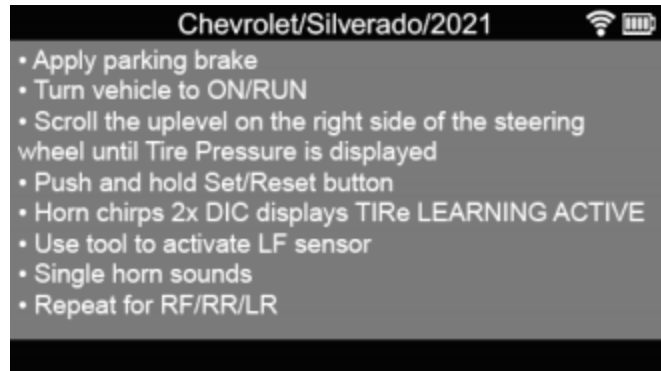
2. Next select **Manual**.



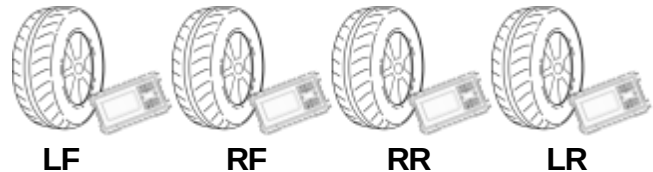
3. The manual relearn screen will be displayed with a chart for all sensor information, as well as an icon to view therelearn instructions.



4. Select the  icon at the bottom of the screen to view therelearn instructions. Begin by following the instructions to put the vehicle into a “learn” state.



5. Once the vehicle is in a learn state, activate each sensor in the order listed in the instructions. For most vehicles, the horn will honk after each sensor has been activated, indicating that has been successfully learned.



OBD II TPMS Relearn

This section will go over the process of relearning the TPM system using through the DLC using the OBD II cable.

1. From the Diagnostics screen, select **Relearn**.



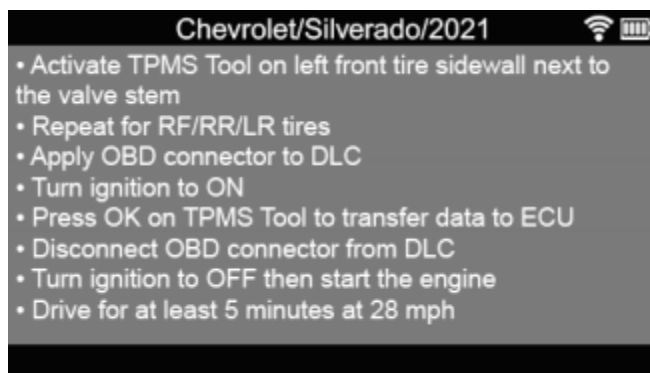
2. Next select **OBD II**.



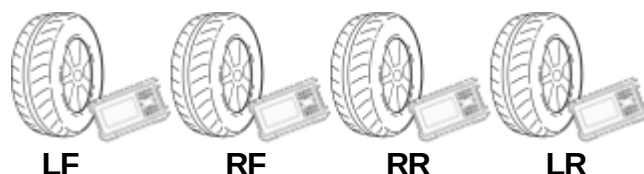
3. The OBD II relearn screen will be displayed with a chart for all sensor information, as well as icons to view therelearn instructions and transfer the sensor information to the vehicle



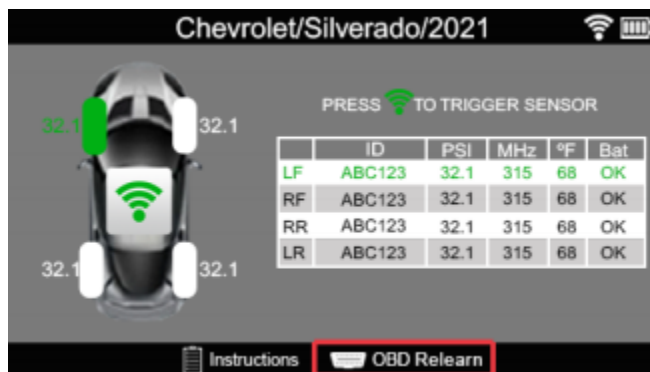
4. Select the  icon at the bottom of the screen to view therelearn instructions. Then return to the vehicle screen.



5. Begin by activating each sensor in the order listed in the instructions.



6. Once all sensors have been activated, select the OBD II icon at the bottom of the screen.



7. Connect the OBD II cable into the tool's OBD II port, then connect the other end into the vehicle's DLC. Select Transfer.



8. The Tool will display **TRANSFER SUCCESSFUL** Indicating the sensors have been learned to the vehicle.

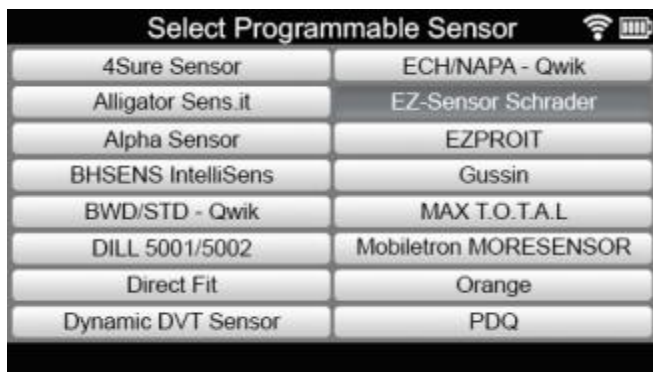
Program - Selecting a Sensor

This section will go over the process of programming TPMS sensors before installing them in the vehicle.

1. From the Diagnostics screen, select **Program**.



2. Next, select the sensor being used.



3. If applicable, the Tool will display any information regarding proper sensor selection and use.



4. Once a sensor has been selected, the Tool will display the programming options available for that sensor brand.



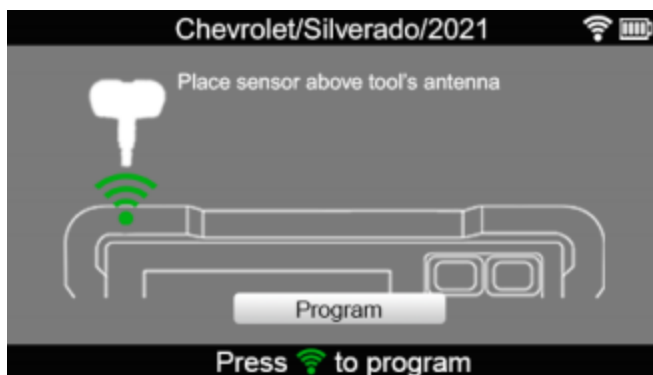
Program - Create

This section will go over the process of programming a new sensor ID to a blank sensor.

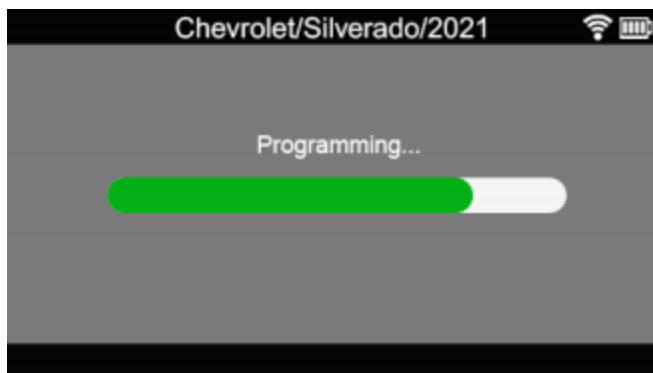
1. From the Program screen, select **Create**.



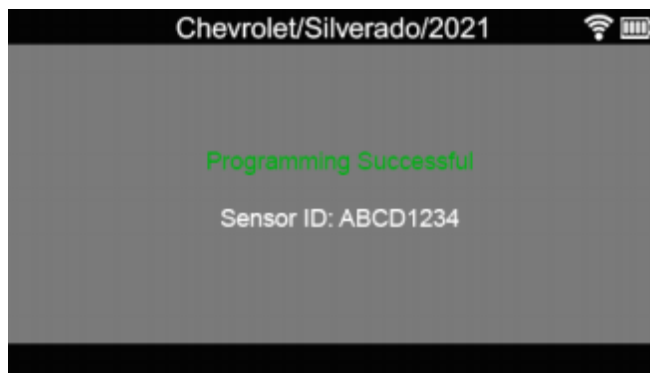
2. Begin by placing the sensor above the tool's antenna. Then select Program.



3. The tool will begin writing a new sensor ID to the sensor. This process may take a few moments.



4. Once complete, the new sensor ID will be displayed and the sensor will have been successfully programmed.



Program - Copy

This section will go over the process of copying the ID from an existing sensor and programming it to a blank sensor.

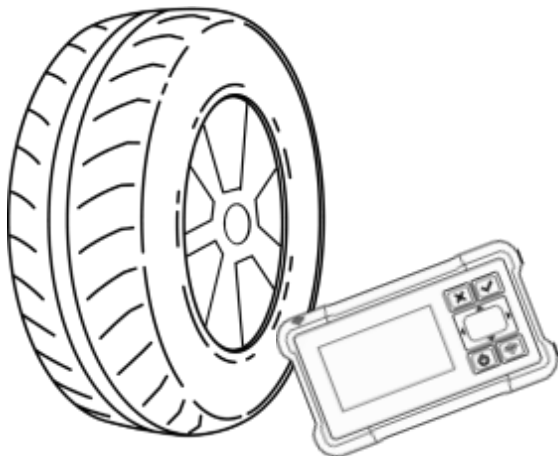
1. From the Program screen, select **Copy**



2. Begin by placing the original sensor above the tool's antenna. Then select Copy.



If the original sensor is still installed in the vehicle, point the tool's antenna at the sensor through the tire sidewall and select Copy.



3. The Tool will display the original sensor's ID. Select Continue.



4. Place the new sensor above the tool's antenna and select Program.



5. Once complete, the sensor ID will be displayed and the new sensor will have been successfully programmed with the original sensor's ID.



TPM DTC

This section will go over the process of retrieving and clearing TPMS related diagnostic trouble codes.

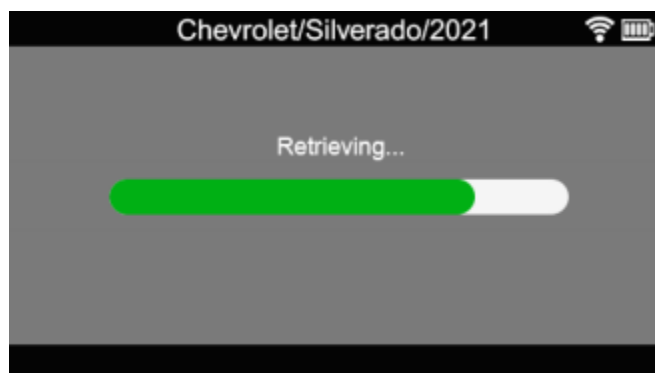
1. From the Diagnostics screen, select **TPM DTC**.



2. Begin by connecting the OBD II cable into the tool's OBD II port, then connect the other end into the vehicle's DLC. Select Read TPMS DTC.



3. The Tool will begin reading for any potential trouble codes. DO NOT unplug the OBD II cable during this process.



4. The Tool will display any current codes shown by number and description.



5. Codes can be cleared by selecting the **CLR** icon at the bottom of the screen.

Unlock ECU

Some vehicle models have a TPMS button, usually located under the dashboard, that if pressed, will lock the user out of relearning the TPM system using the OBD II cable. This function will unlock the ECU to allow further servicing. **Note:** Vehicles shown in this manual are examples, and may not be vehicles compatible with this feature.

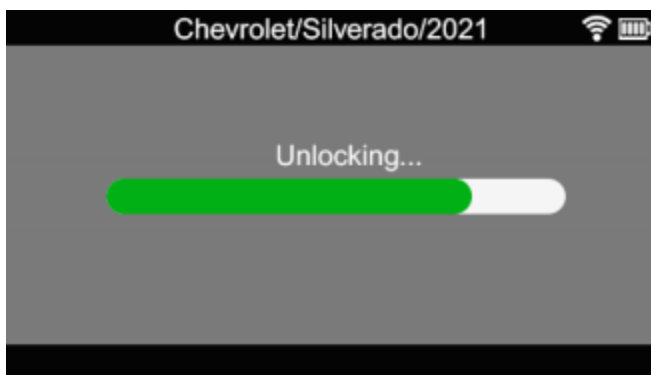
1. From the Diagnostics screen, select **Unlock ECU**.



2. Begin by connecting the OBD II cable into the tool's OBD II port, then connect the other end into the vehicle's DLC. Select Unlock.



3. The Tool will begin unlocking the vehicle's ECU. DO NOT unplug the OBD II cable during this process.



4. Once complete, the tool will display **UNLOCK SUCCESSFUL**, and the user may continue servicing the vehicle.



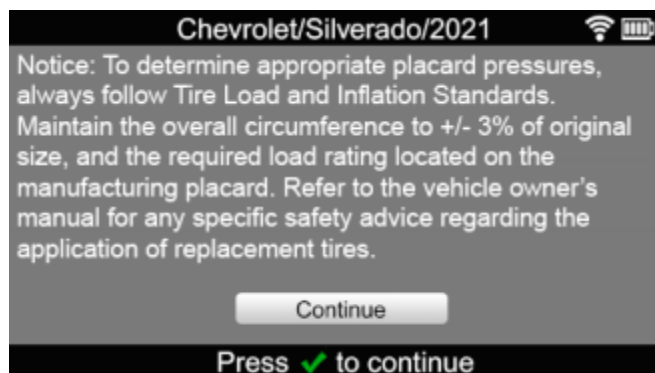
Placard

When changing tire types or load sizes, the internal ECU pressure values must be changed so that the low pressure TPMS light comes on at the appropriate pressure. This section will go over the process of changing these values through the DLC.

1. From the Diagnostics screen, select **Placard**.



2. Make sure to read the disclaimer regarding appropriate use of the placard function. Next, select continue.



3. Begin by connecting the OBD II cable into the tool's OBD II port, then connect the other end into the vehicle's DLC. Select Placard.



4. The Tool will display the current placard values stored in the vehicle. To edit an axle, tap the axle, or use the confirm button on the tool itself.



5. Use the +/- icons, or the directional arrows to change the value up or down. When finished, press the confirm button.



6. Once both axles' values have been changed, select the OBD II icon at the bottom of the screen.



7. The Tool will write the new values to the vehicle's ECU. Once complete, the tool will display **TRANSFER SUCCESSFUL**, indicating the values have been successfully written.

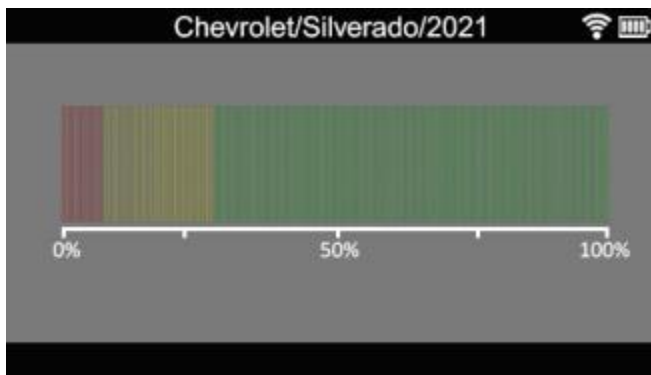
Keyfob

Some TPMS relearn procedures require use of the Keyfob in order to put the vehicle into a learn state. This section will go over how to test the Keyfob to ensure it is working properly.

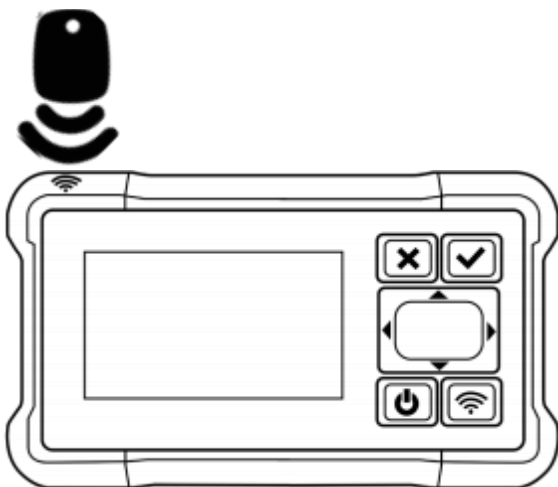
1. From the Diagnostics screen, select **Keyfob**.



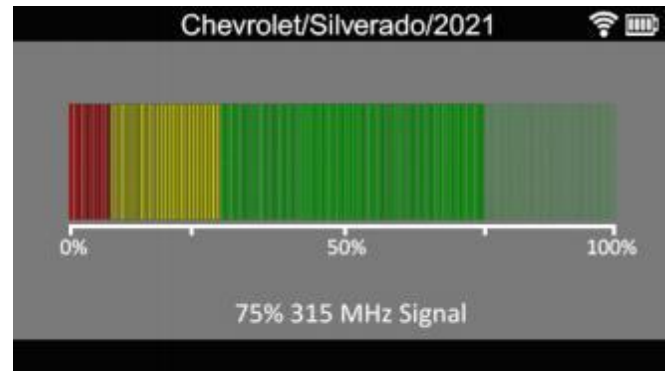
2. The tool will display a screen with a chart, and percentage values.



3. Place the keyfob above the tool's antenna and press the lock or unlock buttons.



4. The Tool will display the fob's signal strength and frequency.



A medium to high signal strength indicates that the fob is functioning properly.

A low signal strength indicates that the fob may not be functioning properly, or that the battery is dead.

Data

Part #

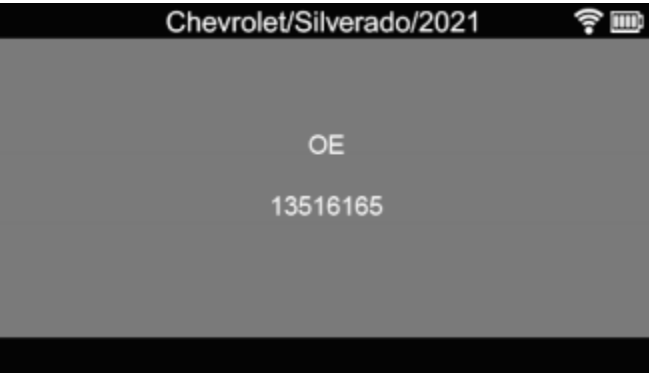
This section will go over how to look up TPMS sensor part numbers when they need to be replaced. 1. From the Diagnostics screen, select **Part #**.



2. The tool will display a list of sensor brands, as well as the OE replacement. Select a sensor from the list.



3. The Tool will display the part number of the sensor, specific to the selected vehicle.



SETUP

REVIEW SAFETY

OPERATION

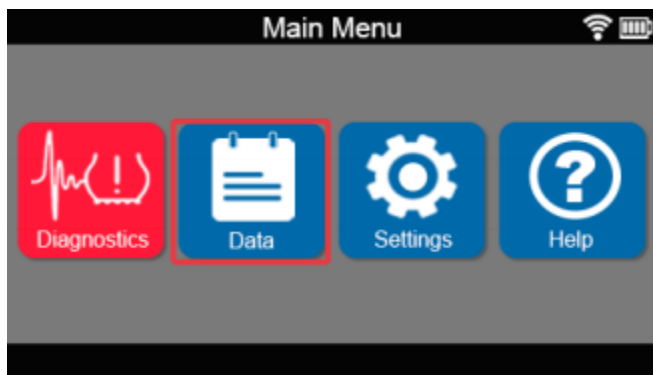
OPERATION

MAINTENANCE

History

This section will go over how to view previously recorded vehicle information and jobs.

1. From the Main Menu, select **Data**.



History Icons



Search - Search for a job.



Forward - Move forward a page.



Back - Move back a page.



Delete - Delete a job.

2. From the Data screen, select **History**.



3. The tool will display all previously recorded jobs from the Sensor Status function. To revisit or edit a job's information, select the job.

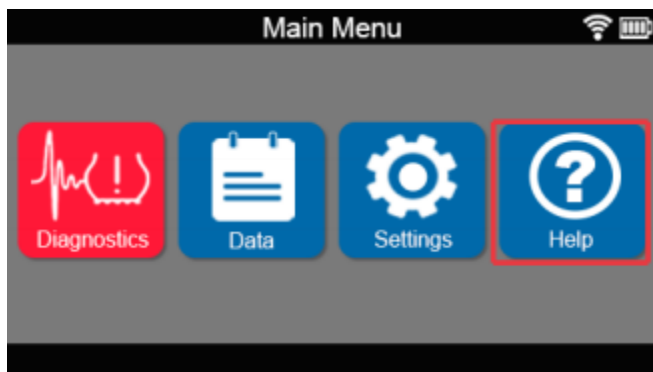


Help

About

The About function can be used to view various information about the tool including the serial number, software version, and more.

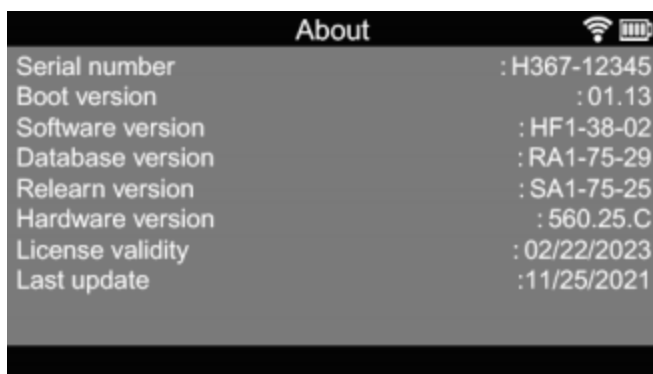
1. From the Main Menu, select **Help**.



2. From the Help screen, select **About**.



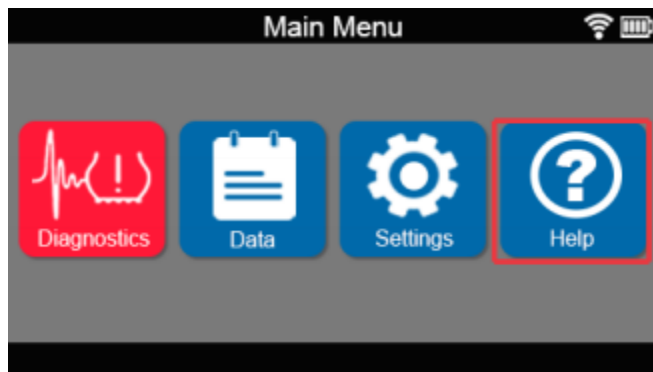
3. The Tool will display all information about the tool including serial number, software version, license validity, and other info that will benefit the user.



Support

The Support function can be used to view technical support information if the user needs to contact the team for any tool functionality related issues.

1. From the Main Menu, select **Help**.



2. From the Help screen, select **Support**.



3. The Tool will display the current technical support phone number and email address. **Note:** Support information may not be up-to-date in this manual. Please view the support section on the tool for up-to-date information.



Maintenance



There are no user serviceable parts. Have the Tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained.

Maintenance

WARNING

TO PREVENT SERIOUS INJURY FROM ELECTRIC SHOCK:

Shut down the Tool and unplug the Power Adapter from its electrical outlet before inspection, maintenance, or cleaning.

1. **PERIODICALLY**, inspect the general condition of the Tool components. Check for:

- loose hardware
- damaged cord/electrical wiring
- cracked or broken parts
- any other condition that may affect its safe operation.

2. **PERIODICALLY**, wipe external surfaces with clean cloth. Clean the Tool screen with soft cloth and mild glass cleaner.

Note: Do not use harsh chemicals or abrasive cleansers on any Tool components.

3. Store Tool components in the Carry Case in a dry, locked area out of the reach of children.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description	Qty
1	Carry Case	1
2	TPMS Tool	1
3	OBD II Cable	1
4	Power Adapter	1
5	USB Cable	1

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Limited 90 Day Warranty

SAFETY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. To the extent that this product is used with software other than what is provided, we shall in no event be liable for any damage to your computer or loss of data. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.**

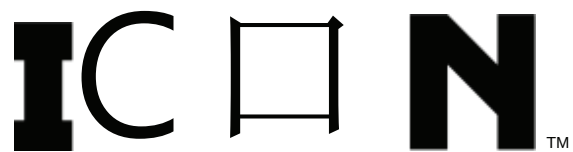
OVERVIEW

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

SETUP

OPERATION

MAINTENANCE



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