BARTEC USA
TPMS PROFESSIONALS

TECH1000

User Guide

Contents

Important Notices

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DISCLAIMER

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FCC COMPLIANCE

FCC ID: SX8T1K IC: 5736A-T1K

Contains FCC ID: QOQWT12 IC: 5123A-BGTWT12A

Contains FCCID: YOPGS1011MIP IC: 9154A-GS1011MIP

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Note: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment.

Whenever you see this symbol, the information you are about to read is vitally important and should be committed to memory.

Account and Registration

The Tech1000 allows for existing Bartec users with a tool management account to add this tool to their account, or New Users to set-up a new account right from the tool.

For existing users, select Log In and enter your Bartec Registered Tools account info to assign this tool to your account and access Service Center (see Service Center section of User Guide for more information on this website).

If you forgot your password, click the button labeled “Forgot Password” and enter your email. An email with the reset process will be sent to you.

For New Users, select the Create New Account and follow the on-tool prompts. **NOTE**: the email address you use to create your account will need to be accessed to validate the account and proceed with the tool registration.

The tool will guide you through the Terms, creating a Username and Password, entering your Email and Phone number, the Company Name and Address, and the Distributor you purchased the tool from.

NOTE: a duplicate email address cannot be used. Each account will require its own unique email address.

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Kit Contents

The basic Tech1000 (WRT1000) kit ships with:

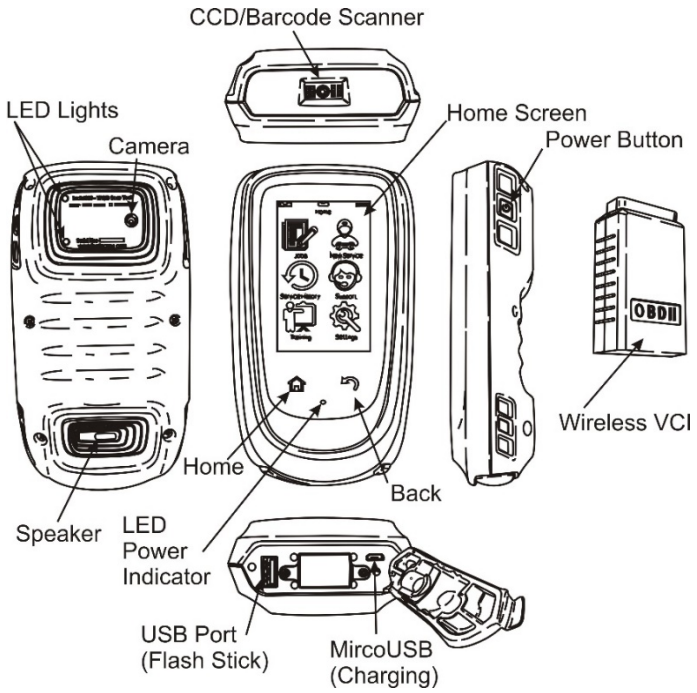
- ✓ Tech 1000 TPMS Tool
- ✓ Wireless VCI (Vehicle communication interface)
- ✓ Inductive Charging Pad with Cable and Power Supply
- ✓ Quick Start Guide

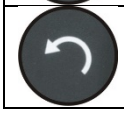
*Other kit configurations may vary.

Getting Started

A Wi-Fi connection is required to register and update the Tech1000. Please make sure you have your router name and password before starting.

Tool Layout



	Home Button	Returns to the Home menu
	Back/ESC Button	Navigates to the previous menu item

Powering Tool

To power the Tech1000 on, simply press the power button on the right side of the tool until the LED on the front of the tool illuminates. The tool will quickly boot to the HOME screen.

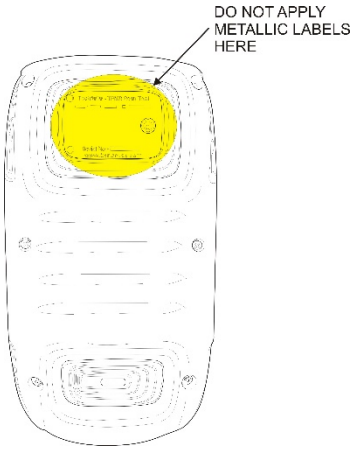
To power the Tech1000 off, quickly press the same power button which will launch a power off menu (also accessible through the pull down menu). Choose from Power Off, Sleep, or Cancel by clicking the power button again.

Power Icon - Shuts tool completely off.

Sleep – Puts the tool to sleep but maintains Bluetooth connection and quickly resumes with a quick press of the power button. The timing of this can be changed in the tool settings.

Cancel-Resumes the tool to the original menu before clicking the power button.

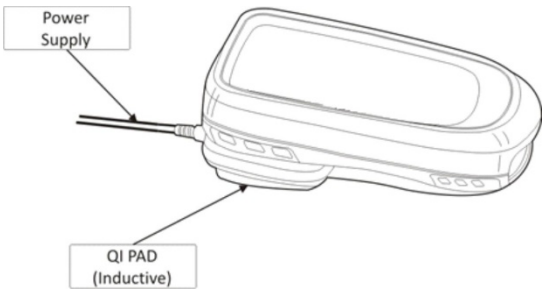
Charging Tool



Your Tech1000 tool comes with a factory-installed rechargeable battery. **Battery replacement must be done at the Bartec USA Repair facility** (see appendix for battery service). The tool will not allow use while being charged.

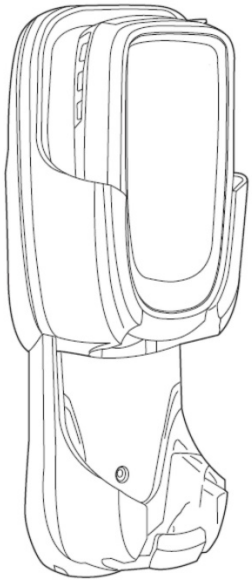
NOTE: For optimum performance, always keep your tool charged.

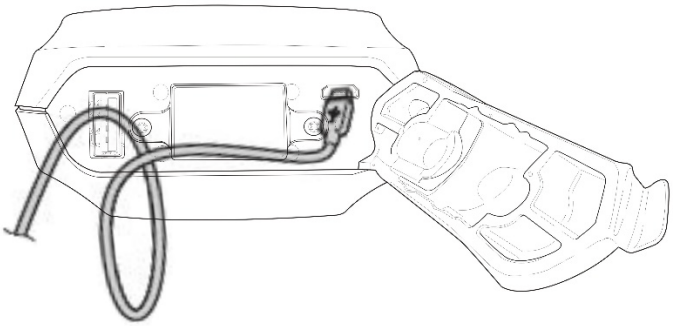
Do not attach metallic items of any kind to the charging area.



The Qi Inductive Charging Pad/Wall mount cradle is the preferred method of charging. You can also use the supplied micro USB cable attached to either the Standard Wall Plug Power Supply or a PC. Only the Power supply or cable included in your Tech1000 kit should be used.

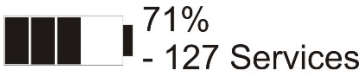
Note: Only use the supplied charger & cable to prevent any damage to your device. See Warranty for more Details.

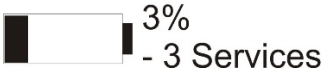




Battery Level examples as shown on main tool screen.

Battery Level examples with estimated services shown on drop down screen.



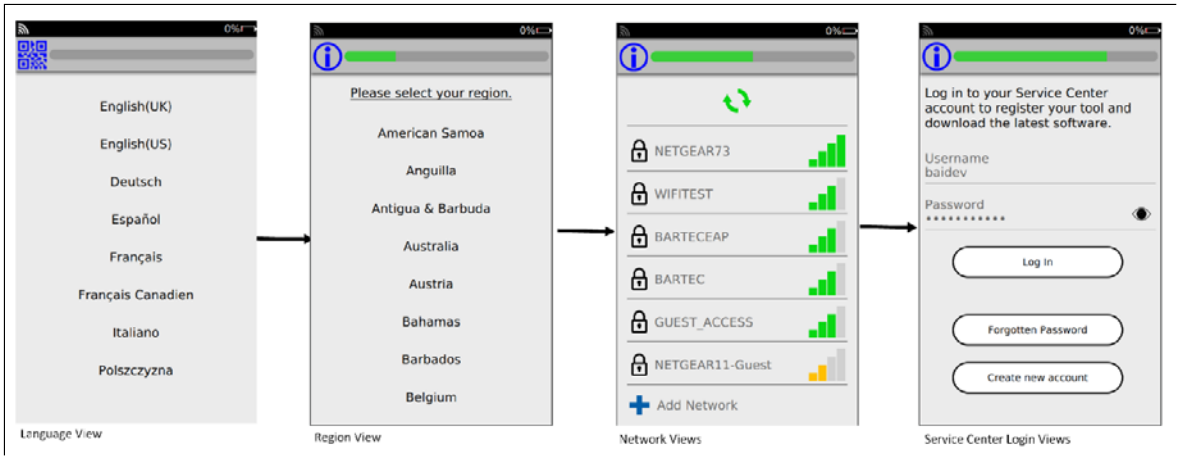


*Number of services is estimated.

Tool Set-Up

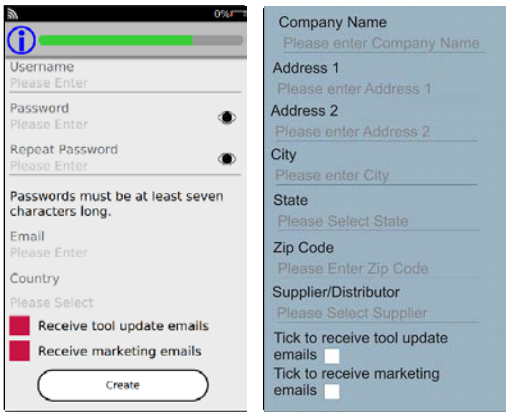
The Tech1000 **MUST** be set-up before use. If at any time the tool is powered off during the Set-up process, the set-up process will automatically start over. While the Tech1000 ships with a charged battery, before starting it is recommended you charge your tool at least 50% to ensure your tool power level is high enough to complete the set-up process. Note: The tool cannot be used while charging.

To Set-up the tool, you will need access to a Wi-Fi network. The tool will prompt you through the following selections: Language, Region, connecting to your Wi-Fi network, and connecting to your current account, or creating a new registered tool account via Service Center.



The "Eye"  Icon will allow you to view your password as you type. Press again to hide the info on the screen.

Note: You can also register the tool via the https://tools.bartecusa.com/ site, but the set-up application will still need to be completed and your account info entered on the tool. At any time during the set-up application the user can press the Back/ESC button to go back to the previous screen. Pressing the Home Key will re-start the set-up process.



See https://www.bartecusa.com/pdf/system-requirements-bartec-software-websites-tools.pdf for the Wi-Fi requirements document

Wireless Connections

Wi-fi

The Tech1000 requires a Wi-Fi connection in order to register, update the device, and connect to Service Center.

The Tech1000 is designed to work with 2.4GHz Wi-Fi networks.

With the standard production software, the tools have the ability to support the following connection security types:

- WPA – Personal
- WPA2 – Personal
- Vendor EAP Type(s)
- EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAPGTC, EAP-FAST, EAP-TLS

The following sites/locations must have granted access (white list) for your Tech1000 to properly connect.

- Service Center: https://servicecenter.bartecusa.com/
- Updates: WIFI
- Registration: https://tools.bartecusa.com/TPMSDesktop/publish.htm
- Network status: http://network-test.debian.org/nm
- Network status: https://www.google.com/

For internet connectivity checks the tool also uses PING to the following IP Addresses:

- 8.8.8.8 https://servicecenter.bartecusa.com/ (Google)
- 1.1.1.1 (Asia-Pacific Network Information Centre (APNIC))

For time synchronization the tool also needs access to port 123 for UDP.

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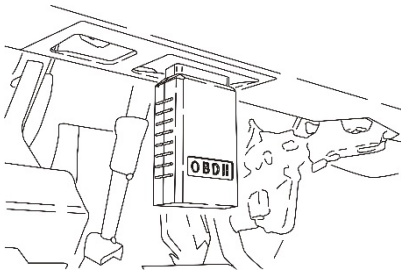
Bluetooth

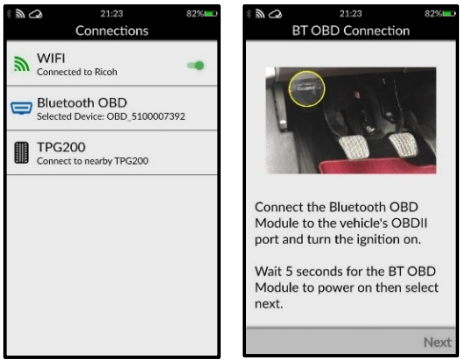
The Tech1000 is equipped with Bluetooth to interact with the Bartec Wireless VCI (Vehicle Communication Interface) and Tread Depth Tools (TPG200 and Tech200PRO).

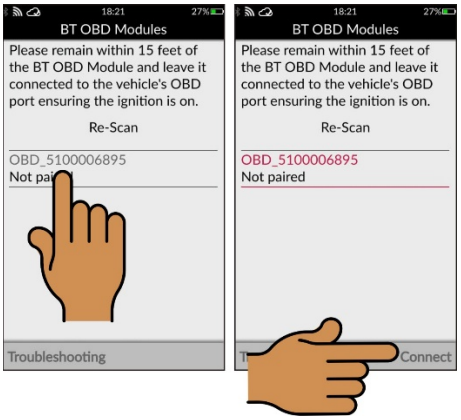
The Bartec Tech1000 comes with a Wireless VCI that needs to be paired to tool. The VCI does not have its own power source, and therefore must be connected (plugged in to) a vehicles DLC (OBDII port) to use the power provided from the vehicle for pairing and other use.



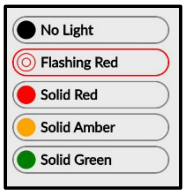
The easiest way to pair your VCI will be to navigate to the Settings menu from the Home Screen, and select Connections from that menu. You will see 3 options: WiFi, Bluetooth OBD, and TPG200. Select Bluetooth OBD.

The tool will guide you through the process with pictures and text on the screen, prompting you to connect the VCI to the Vehicles OBDII Port (for the pairing process you can use ANY vehicle you want). Follow the on tool instructions, and press next when prompted.

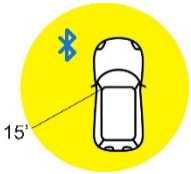




The tool will scan for and locate your VCI (NOTE: before connecting the VCI to the vehicle, it is best practice to take note of the VCI serial number, as that is what will show on this list.) Once you locate your VCI, **tap on the serial number (on the tool Screen)** and the tool will prompt you to **Connect (will appear lower right of screen)**, and take you through the remaining pairing process.



The Tech1000 offers a guided interactive process to assist with using the VCI, including Pairing and Troubleshooting. This is done using color coded LEDs on the VCI and selecting the color from the menu on the Tech1000.



The Bluetooth used on the VCI and Tech1000 has an optimal distance between devices of 15 feet (as shown in the diagram). This allows the VCI to remain connected during the entire TPMS & Service Process to interact with the tool. If at any time your tool/VCI are not communicating, first insure you are within range.

VCI Color Indicator

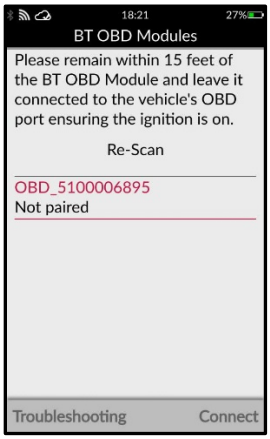
WIRELESS VCI LED STATUS

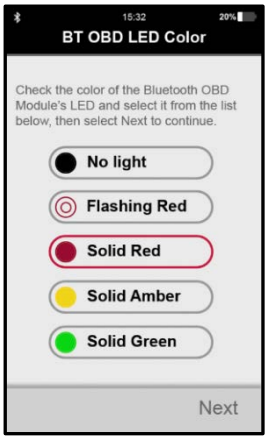
The Tech1000 and VCI are intuitive and will let you know at every step, what the tool is doing and what is connected to it.

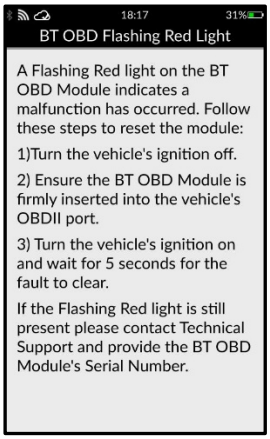
- No light - no power to the device
- Flashing red - malfunction
- Solid red - device is ready
- Solid amber/green - device is connected

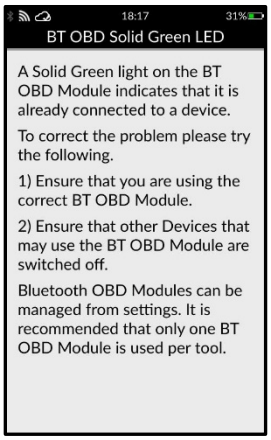
Note: To help prevent loss of the Wireless VCI, the device will emit a warning tone after ONE MINUTE of inactivity/communication. Further, at the end of vehicle service, the tool will halt and prompt the user to remove the VCI in order to get the final inspection data from the tool.

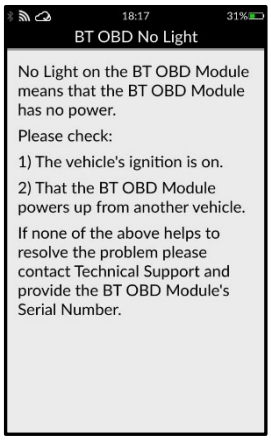
Wireless VCI Pairing Process

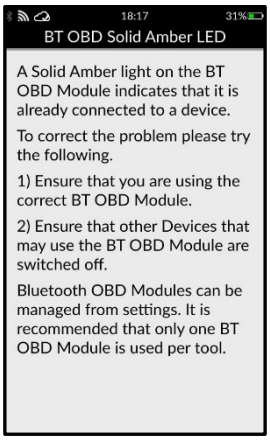


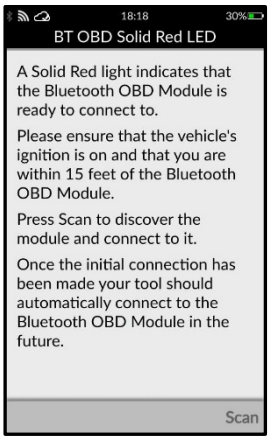












Tool Updating

Once the Tech1000 is connected to the Wi-Fi it will automatically download the updates and notify you when its ready to install. Note: the tool will need to reboot to complete the update process. If you would like to manually update the tool it can be found in Settings, Software Update. The tool will automatically check to see if any updates are available. To find out what was update on your update please visit https://tools.bartecusa.com/

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Service Center

On Tool/Job Management:

Service Center-In the settings tab you will be able to click on the service center portion of the tool to log into your registered tools account (service center).
Manage-This is where you will be able to access and manage all the data from all previously serviced jobs. Coming soon!

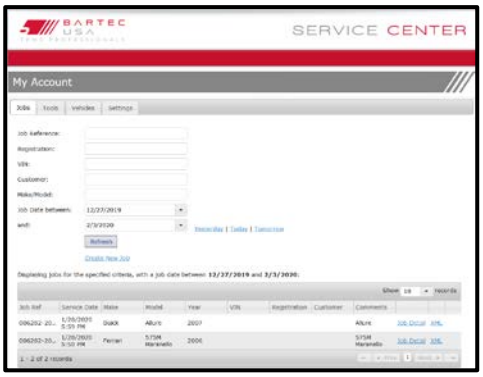
Website:

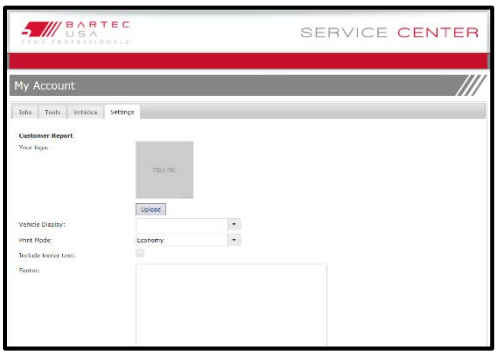
Service Center is a cloud-based site that works directly with the Tech1000, and the basic version is included with the annual tool software license. On-line storage for inspection data, on-tool registration, and tool updating via a Wi-Fi connection are all functions of Service Center.

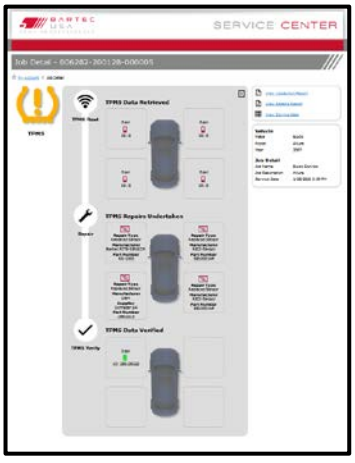
Once an account is created, you can access Service Center using the link shown below.
https://servicecenter.bartecusa.com/

Existing users can use their Bartec Registered Tools account and add this tool through the on-tool set-up application by entering their Username and Password.

New users can use the on-tool set-up application to create a new account



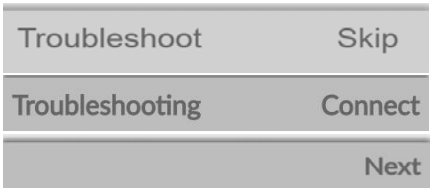




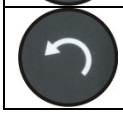
Using your Tech1000

Tool Navigation

The Tech1000 is a touch screen device (like a smart phone or tablet) that by touching the on-tool icons and text (usually located at the bottom of the screen) will guide the user through using the tool.



There are 2 permanent capacitive touch buttons located at the bottom of the screen: Home and Back/ESC.

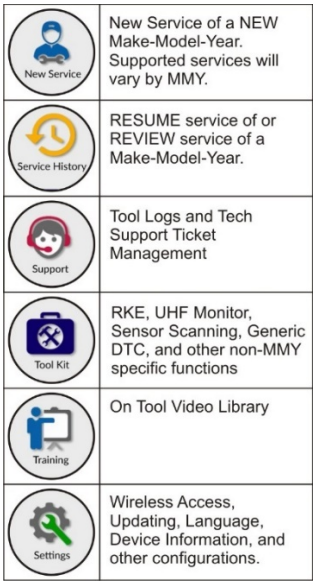
	Home Button	Returns to the Home menu
	Back/ESC Button	Navigates to the previous menu item

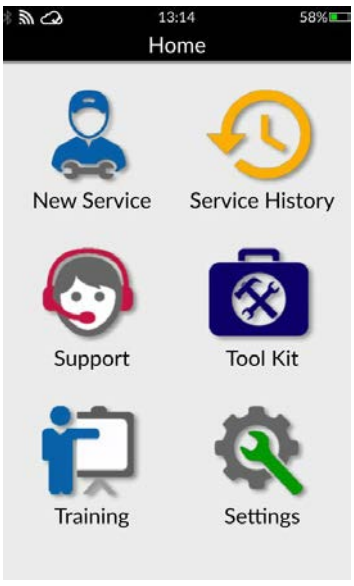
The Home button will return the user to the Home Screen at any point during the process.

The Back/ESC button will take the user back one function or screen.

Home Menu:

The home icons will allow you to navigate you to different functions of the tool. The home button will return you to the home screen. See below for the icon menu selection and descriptions.

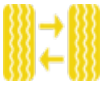
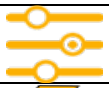


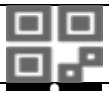


Tool Display and Icons

Since the Tech1000 is a touch screen device, the tool uses icons to assist the user in navigating through the tool. Please take a moment and get acquainted with the icons used on the tool and what they mean.

ICON	Description	Definition
	Car Damage	Icon is shown when pictures of vehicle damage are taken
	Barcode Scan	Icon is used when the tech1000 is initiating the barcode scanner.
	Battery (Management System)	Not yet available.
	Account	This is the icon regards to your registered tools account log in info.
	Bluetooth	wireless interconnection of mobile phones, computers, and other electronic devices.
	Incorrect Sensor	An incorrect OE sensor has been fitted. Please proceed with Repair before being able to Relearn.
	History	History of all vehicles that were serviced with the Tech1000.
	New Sensor	New sensor was found during the TPMS service.
	Park Mode	This icon is displayed when a sensor has been in a dormant state for a period of time.
	Ship Mode	The sensor is in low power mode to conserve battery life of the sensor.
	New Service	Takes you to the process of starting a new vehicle and the MMY set up.
	Pressure	Icon will be seen in the settings menu where you are able to change your tool from PSI to KpA or Bar.
	Placard Change	This icon is displayed when you have the ability to change the placard threshold on a vehicle.
	Pressure Drop	This icon is shown on vehicles that require a pressure drop to activate.
	Sensor Failure	No Sensor Activation or Decoding. This may have happened due to an unprogrammed or wrongly programmed sensor.
	Settings	Takes you to the settings of the tool.

	Service Center	This icon takes you to your Service Center account where you can log in for data to be uploaded to your service center desktop account.
	Tires Rotated	Rotated tires icon will display when the IDs are deemed rotated per OBD data in the ECM versus what was read at the wheels.
	Training	This is where training videos are stored for training purposes.
	Tech Support	Gives you the ability to create a live tech support ticket for assistance.
	UHF Monitor	Can measure the strength of UHF on different sources.
	WIFI	Shows the device is connect to the Internet.
	Warning	This icon is shown when the tool is recommending a process, or something not be skipped.
	OBD	This icon shows when its recommended to use the OBD connector.
	Tool Kit	This icon takes you to quick function processes.
	Flashlight	Accessible through the drop down menu at any time to activate the LED lights as a flashlight on the back of the tool.
	Temperature	Icon refers to the TPMS temperature at the time of an activation.
	Sensor Battery Good	Sensor internal battery icon. Can display full to no bars depending on remaining battery life.
	General Settings	Icon takes you to the general settings of Language, Region and Date/Time.
	Flash	Icon is used when the camera is in use and flash is needed.
	Engine Light	This icon allows you to check generic OBD engine codes on a vehicle.
	Sensor Battery Low	Sensor's internal battery has dropped below a certain voltage threshold. Please use a substitute sensor.
	Sensor Battery Not Read	Sensors not equipped with an internal battery reading can show this icon.

	Action Overflow	Access to A SUB-MENU OF TASKS/FUNCTIONS.
	Service Center	Icon is shown when there is no logged in service center account yet.
	Connections	Icons show the different types of connections that can be made with tool (WIFI, Bluetooth, TPG200)
	Drive (Auto) Relearn	Shown if drive relearn is required.
	ESC (Electronic Stability Control)	Not yet available.
	Hardware Fault	A hardware fault related to the sensor has been detected. Please proceed with Repair step before being able to Relearn.
	Downloading/Software Updates	Icon takes you to the page where the tool will search for any updates that are available for the tool. Or this icon will show when the tool is downloading the update from Service center.
	Magnet	Icon is shown when its required to use a magnet during a sensor activation.
	QR Code / 2D Barcode	Used when trying to decode a Vin via 2D.
	Power Off	Clicking this icon powers the tool off completely.
	Service Completed	This icon is given when you successfully finish a relearn procedure.
	Parking Brake (EPB)	Not yet available.
	Photo	This icon is used when needing to take a photo of damage to a vehicle prior/during service.
	Mode Mismatch	Further diagnostic related to the sensor is required when icon displays.
	Notifications	This icon is shown on the top of the screen and notifies you when there is a notification of sorts. The notifications can be viewed in the pull down menu.

	Duplicate Sensor IDs	A sensor with a duplicate ID has been read. The tool will direct to re-read those sensors.
	Battery Charging	Icon is show in the battery when the tool is in a charging state.
	Brightness	This icon is accessible in the drop down menu to adjust the brightness of the display.
	Service Center – Not Connected	Service center is not connected to the tool and no data will be uploaded until connected.
	Service Center - Connected	Service center is connected, all services will be uploaded to service center.
	Information	Icon is shown when there is more information that can be found on that specific procedure.
	Sleep	Powers the tool to a sleep state where can be awoke with a click of the power button only.
	Low Battery	This icon is displayed when the tool has no battery level to complete any services until charged.
	Repair	Icon is shown when something during the TPMS service needs to be repaired (bad sensor, rotated tires).

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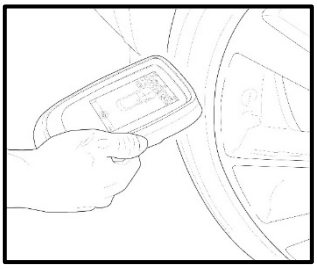
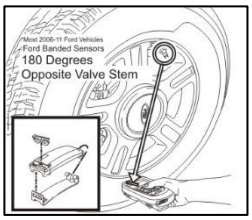
Tool Positioning/Reading a Sensor

Proper tool positioning is important to ensure sensor reading and activation. The following sections will illustrate the different sensor activation methods.

Snap-in Sensors: Place the tool on the tire, aimed towards the TPMS sensor location (near the valve stem) as shown below.

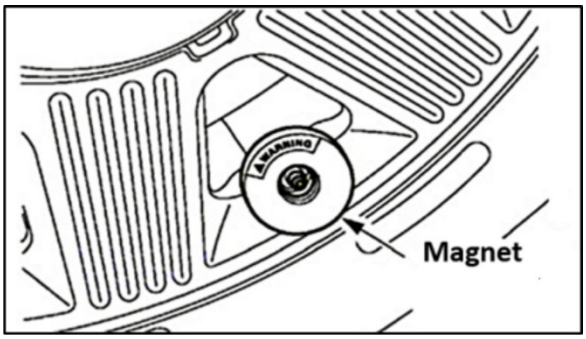


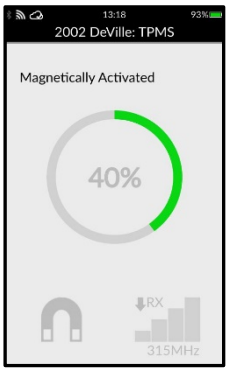
Banded Sensors (e.g. Ford): Place the Tech1000 on the tire, held 180° opposite of the valve stem as shown below.



Magnet Activated Sensors:

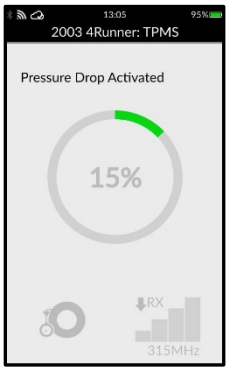
Magnet icon is shown when it is required/recommended to use a magnet when activating the sensor. Although these are not as common you may see this on early GM vehicles (EX. A Corvette).

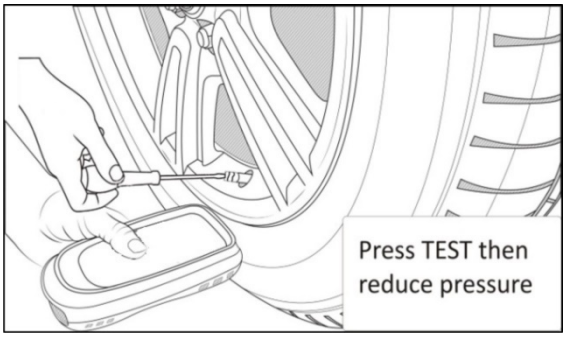




Pressure Drop Sensors:

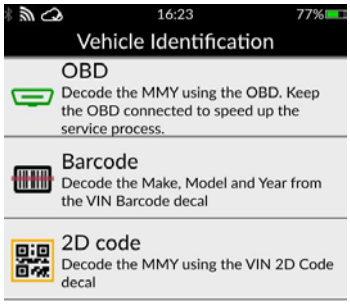
Pressure icon is shown when it is required/recommended to reduce pressure when activating the sensor.





New Service

The Tech1000 uses a Guided Process (step by step) approach to TPMS Service. To start a new vehicle, click on New Service. The tool has the ability to capture the vehicle info one of these ways:



Select from the following

- VINDicate® – Decode the MMY using the OBD to capture the VIN
- VIN 2D code – Decode the MMY using the QR code decal
- VIN Barcode – Decode the MMY using the barcode scanner set to read both standard and inverted bar codes
- VIN data – Obtain the MMY using VIN data stored on Service Centre on the tool
- Manual Input

Registration: Select whether the vehicle registration should be typed in manually or captured by the integrated camera.

Make: Select the manufacturer of the vehicle

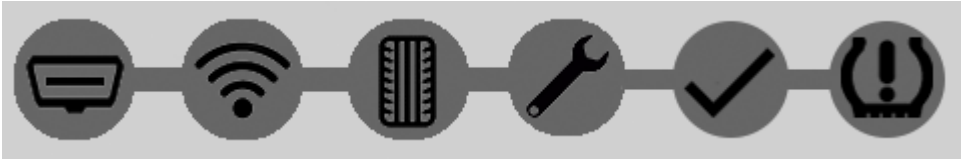
Model: Select the model of the vehicle

Year: Select the manufacturing year (10th Digit of the VIN).

Once the MMY is selected, the available services will show. Follow the on-tool prompts to complete the service.

Guided Diagnostics and Repair Process

For ensuring that the TPMS process is executed correctly, the TECH1000 guides the user through the workflow. Subsequently, the default workflow process will be described in the following image:



1. Diagnose (OBD)
2. Read TPMS
3. Tread (If paired with a tread depth tool)
4. Repair
5. Verify
6. Relearn

Step 1a: OBD Connection

The OBD engine read is used to retrieve critical information, including:

1. Battery voltage
2. TPMS ID – To identify if wheels are rotated or unprogrammed sensors exist
3. DTCs – TPMS related diagnostic trouble codes which may indicate system failures

This screen will only be displayed if OBD is available for the selected MMY.

Connect the Wireless VCI to the vehicle's OBD II port. To perform this, please click Settings > Connections > Bluetooth OBD. (Once module is paired (connected to the tool), connection should establish again itself).

Please keep in mind that the vehicle's ignition needs to be turned on. Also please ensure that the Bluetooth OBD module is within 15 feet range from the vehicle's OBD port.

In case of any problems the troubleshoot menu will help you to obtain a connection.

Step 1b: Sensor Test

The TPMS Test will:

- Identify the sensor when there is a fault
- Check state of sensors
- Check battery condition of sensors
- Enable close mechanical inspection of sensors

Tool Positioning

Do NOT touch the metal rim. The tool needs to be pointed at the sensor through the tire.

1. LF activated sensors

To test a sensor the tool should be placed alongside the valve stem and the red *Test* symbol needs to be pressed.

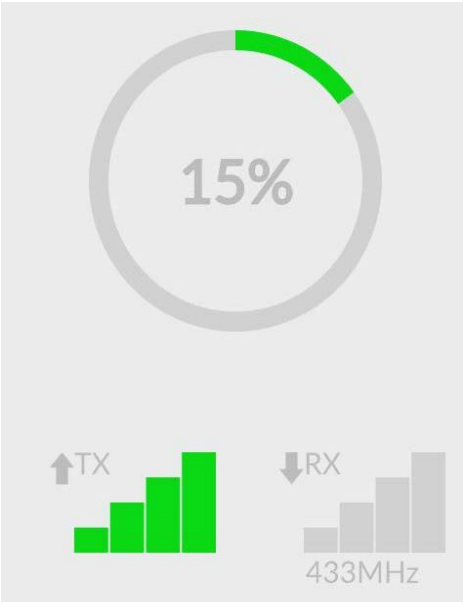
(Note: with Ford Banded sensors, the tool should be held 180° away from the stem.)

2. Non-LF activated sensors (some BERU sensors up to 2009)

If the tool requires rapid tire deflation (of the order of 10psi or 0.5bar), deflate the tire and place the tool alongside the stem while pressing 'Test'.

During testing, the screen displays the transmission frequency strength in the bottom left corner and the receiving frequency strength in the bottom right corner of the screen (as shown below). A progress circle is being shown in the middle of the screen.

Please note that different makes of TPMS sensors respond at different speeds / time intervals.

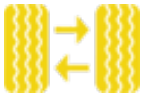
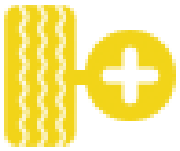


Possible Reading Scenarios

Note that if a faulty TPMS sensor has been replaced, some methods of relearn procedures will need to be followed, as explained later in this manual.

To receive further Sensor Information, tap on one of the symbols next to the wheel position.

	**Successful Sensor Read** TPMS sensor was successfully activated and decoded. Displays pressure (in Bar or PSI) at wheel location.
	**Failed Sensor Read** No Sensor Activation or Decoding. This may have happened due to an unprogrammed or wrongly programmed sensor, in order to utilize this sensor for Relearn within the Repair step.
	**Duplicate sensor IDs** A sensor with a duplicate ID has been read. The tool will direct to re-read those sensors. It is likely that a previously read sensor has been read once again.
	**Low Sensor Battery** Sensor's internal battery has dropped below a certain voltage threshold. Please use a substitute sensor.
	**Incorrect sensor found** An incorrect sensor has been fitted. Please proceed with Repair before being able to Relearn.
	**Defective sensor** A hardware fault related to the sensor has been detected. Please proceed with Repair step before being able to Relearn.

	**Rotated tire** Rotated tires icon will display when the IDs are deemed rotated per OBD data in the ECM versus what was read at the wheels.
	**Incorrect sensor mode** Further diagnostic related to the sensor is required when icon displays.
	**New Sensor ID** Icon is shown when a new sensor with a new ID has been found in the TPMS service.

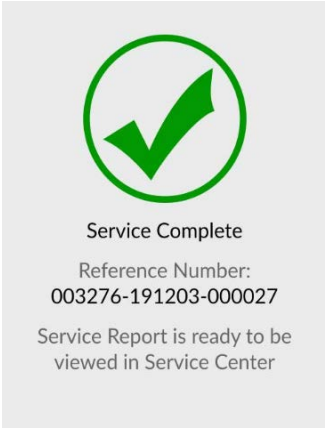
To reread one of the sensors, select one-wheel position by tapping on it and pressing the *Test symbol* again.

The second sensor read will overwrite the previously captured data.

If a damage on the tire occurred, you can simply add a picture by selecting the 3 dots in the bottom left corner and select *Photo*. Take the appropriate photo and it will automatically be added to the current wheel position.

To continue with the next step without successfully reading all sensors, select *Skip*. A warning screen will appear including information that reading is incomplete. Then select *Continue* twice when messages prompt.

After having finished reading the sensors, please select *Next* in the bottom right corner. An alert will pop up, you can either select *Finish* which will finalize the service and show you the following image with a generated reference number or select *Continue(complete relearn process)* to continue working on this job.



Step 1c: Tire Condition

By default, this step is removed from the process since a separate Tire service step has been provided. If this step is however enabled (optional or mandatory) via the tool settings, it will be displayed with an appropriate label and icon.

Step2: Repair

The repair step will indicate:

- Sensors requiring sensor replacement
- Sensors requiring reprogramming
- Sensor requiring service kits
- Tires requiring replacement
- Diagnostic Trouble Codes

The repair step is however optional and can be skipped or deactivated in the settings, yet it is highly recommended to perform this step.

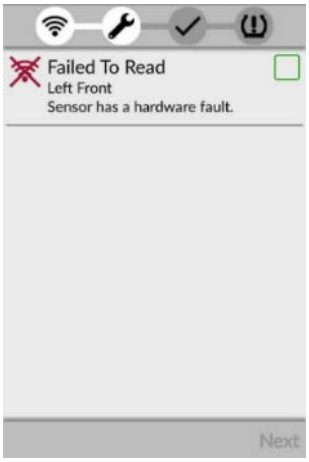
Options:

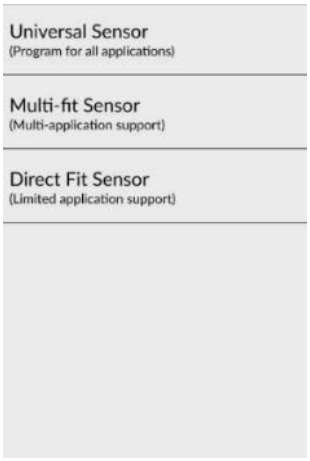
- Optional
- Mandatory
- Disabled (Default)

If a faulty sensor has been identified in the previous step, the tool suggests performing a repair in order to troubleshoot the occurring issues. Please be advised that the repair step substitutes the process which was previously known as *Programming sensors*. If one of the previously mentioned faults are prompted after reading the sensor, you will have various different ways to proceed depending on the nature of the fault. However, the tool will provide you with the available repair methods. Please utilize the following chart to identify the appropriate procedures to perform the Repair. In case a sensor has multiple faults, the most severe issue will be highlighted along with the according repair options.

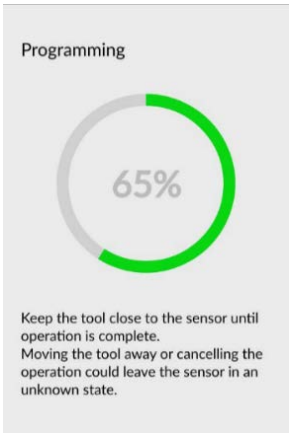
			Repair suggestion			
Diagnosis	Icon	Must be repaired for relearn	Replacement sensor	Service kit	Reprogram sensor	Relearn vehicle only
Dead sensor		Yes	Yes	/	/	/
Incorrect sensor		Yes	Yes	/	/	/
Defective sensor		Yes	Yes	/	/	/
Duplicate sensor IDs		Yes	Yes	/	/	/
Low battery		No	Yes	/	/	/

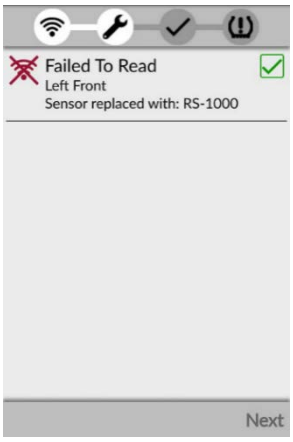
In order to perform a repair with a replacement sensor, please follow the process which will be described in the following paragraph. For generating the following images, a dead sensor has been read which was then replaced by a Bartec RITE-SENSOR.





As illustrated by the red icon next to the wheel position, a dead sensor has been read by the tool. Normally, all four sensors are read to perform a complete TPMS service. After having read all the sensors, please select *Skip* or *Next* to start the Repair process. On this screen all the occurring issues will be displayed. The check box on the right states the condition of the issue. If the box is unchecked, the issue still persists and has not yet been fixed. In order to fix the issue, please select the displayed issue and select a sensor. For this example a Bartec RITE-SENSOR® has been used.





After selecting a replacement sensor please place the sensor in front of the tool. Then please select *Program* which will initialize the Programming process. If the process has been completed successfully, the check box in the right will be marked with a green check. After having solved all issues, you can proceed with Verify.

			Repair suggestion			
Diagnosis	Icon	Must be repaired for relearn	Replacement sensor	Service kit (Recommended)	Reprogram sensor	Relearn vehicle only
Mechanically broken sensor		No	(Yes)	Yes	/	/

Note: Service kit and Replacement sensor are both available as Repair suggestion, however it is recommended to perform the Repair with a Service kit.

If a mechanically broken sensor has been identified, you have the possibility of choosing between repairing it with a service kit or with a replacement sensor. For performing the Repair with a replacement sensor, please follow the same process which has already been described. For selecting a Service kit, please select the outstanding repair job, then select *Repair with Service kit (Recommended*). The tool lets you choose between several service-kit brands and kits produced by those brands. After having selected an available service kit please use this kit and follow the manufacturer instructions to install this part in the wheel. Then proceed by completing a relearn.

			Repair suggestion			
Diagnosis	Icon	Must be repaired for relearn	Replacement sensor	Service kit	Reprogram sensor (Recommended)	Relearn vehicle only
Incorrect sensor		Yes	(Yes)	/	Yes	/
Duplicate sensor IDs		Yes	(Yes)	/	Yes	/

Note: Both Reprogramming a sensor and using a Replacement sensor are available as Repair methods. However, it is recommended to Reprogram for saving time.

If the Bartec TECH1000 supports the sensor, the tool has a valid program for the MMY selection and if the sensor is of the correct type, then the option Reprogram sensor will be shown. To perform a Reprogram, please simply select the Repair job that is being worked on and press Reprogram in the bottom right corner. Then press Program and place the tool in direct proximity to the sensor's position. If the Reprogram has been completed successfully, the box next to the job listing will be marked with a green check.

			Repair suggestion			
Diagnosis	Icon	Must be repaired for relearn	Replacement sensor	Service kit	Reprogram sensor	Relearn vehicle only
Rotated		No (fixed in Relearn process)	/	/	/	Yes
Incorrect mode		Yes further diagnostics required	/	/	/	Yes

If one of the above-mentioned faults is displayed, you do not have to perform a Repair since those issues can be fixed during the Relearn.
Finally, if this step is removed, and if no issues are found in the diagnosis steps, then a dialog will be used to prompt the user to Finish the service or continue to Relearn.

Step 3: Verify

After all sensors have been read, please click “Continue” to reach the verify step. This step is used to confirm that any corrective repair work has been done correctly and that the sensors function appropriately for the vehicle. Carrying out this step also ensures that time will be saved in the relearn process. Please re-read empty positions where work has been carried out. Please note that this text will pop up via an alert every time the verify step is initialized.
To reread one of the sensors, select one-wheel position by tapping on it and pressing the test symbol again. The second sensor read will overwrite the previously captured data. If no reread is required, the Test symbol will be colored in grey and additional information on the sensors like wheel temperature, sensor mode and the tire pressure will be displayed whenever their wheel position is being clicked on. By pressing “Next” you will reach the next step which is the “Relearn”. If no relearn is required, you can either select “Finish” to finish the TPMS service or “Continue” to perform a relearn anyway.

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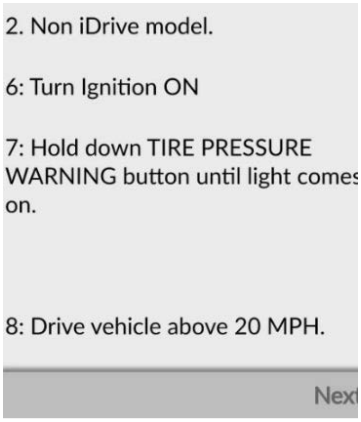
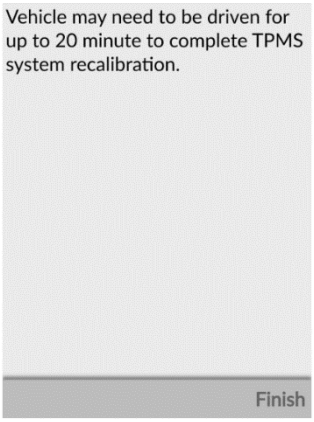
Step 4: Relearn

Note: If there are no TPMS faults found then the tool will inform you that this step can be skipped.
With your TECH1000 you have the possibility of performing different types of relearns. A relearn is needed in order to learn the sensor IDs to the car. The relearn type can be selected for each MMY, depending on the vehicle. To find out which Relearn is available for a certain vehicle, please refer to our coverage list at https://www.bartecusa.com/pdf/bartec-tpms-scan-tool-coverage-tech1000.pdf. This will show you specific relearn information and instructions on the MMY that you have selected as shown in the images below (e.g. "Drive" Relearn):





1. OBD
2. Stationary – the user is prompted to select the relearn mode on the vehicle and then activate the sensors
3. Drive – Advised to activate the sensors before driving the vehicle

OBD Relearn:

Read: Select Read to get a detailed instruction on how to relearn.
Select: If you press select, the Bluetooth OBD connection will be established and automatically relearns the vehicle sensors.
After your Service is completed, you can upload your report to the Service Center. If you select auto upload in the Service Center Settings, your report will be automatically uploaded to the cloud. For additional help on performing OBD Relearns, please have a look at the training videos that you can access with your tool.

Drive Relearn:

Some vehicles can be reset by driving. Refer to the on-screen relearn procedures for details on how far/long to drive. It can take up to 20 minutes to relearn the sensor IDs.

Stationary Relearn:

Stationary relearns use the vehicle's on-board TPMS system to listen for transmissions from sensors while the vehicle is in "Learn Mode". Once the vehicle is in "Learn Mode", please use the tool to activate the sensors. The vehicle will listen for the sensor IDs and learn them to the vehicle.

Sensor Programming:

Sensor programming at this time can only be done in the repair step of the guided relearn process. Coming soon will be a standalone sensor programming function. At this time the Tech1000 can program the following sensors:

- RITE-SENSOR®
- Ez-Sensor
- UVS
- Dill 5001/5002

Placard Change:

Placard Changing can be found after the MMY is set up. With this you have the ability to change the original vehicle placard vehicles. The original vehicle placard values can be found on the B-Pillar or the door. ***NOTE*** Attach the supplemental placard label as close to the OEM placard label as possible. DO NOT cover the OEM placard label.

Passive Entry / Keyless Ignition Testing:

Please note that Passive Entry / Keyless Ignition Testing is only available for a limited number of vehicles depending on the coverage of your tool. With the Passive Entry / Keyless Ignition Testing function you can test the functionality and the strength of the signal of your RFID Keyless entry system. Also please be advised that a stable Bluetooth OBD connection is required throughout the process.

The default Workflow of the TECH1000 uses this approach to diagnose and repairing PKE issues. The default workflow comprises of the following steps:

1. Diagnose
    a. OBD System
    b. Keys
    c. Antennas
2. Repair
3. Verify
    a. Keys
    b. Antenna
4. Relearn

Please position your tool and the key as shown in the image in order to establish a stable connection.

PASSIVE ENTRY / KEYLESS IGNITION TESTING - DIAGNOSE

OBD System: At this first step the OBD Engine is used to retrieve crucial OBD information, including:

- DTCs - Retrieved from the TPMS ECU

Keys: Once a new key is added, the Key check will identify if there are any faults with the key. Faults could include issues such as a damaged key, a low battery, an un-programmed or incorrect key and other issues.

Following information can be gathered by reading the key:

- No signal
- Damage
- Low Signal strength, relative to the front of the tool.
- Low Battery condition (For Keys that support the battery check)

Antennas: PKE vehicles use antennas located around the vehicle to activate the keys. These are typically located on entry points to the vehicles but may also occupy other areas such as inside the vehicle for ignition. As with Keys, you can add multiple antennas for the vehicle, and when doing so you will be prompted to select the location of the antenna. Once an antenna is added the tool will identify if it is transmitting. At any time in the diagnosis step, you can review the detail of the Antenna and can also remove or retest it. *Antenna verification works precisely as Key verification does*

PASSIVE ENTRY / KEYLESS IGNITION TESTING - REPAIR

The repair step is an important step in the workflow as it allows you to analyze all the data from the preceding steps:

- Keys needing replacement
- Keys needing new batteries
- Antennas needing replacement
- Diagnostic Trouble Codes

Please position your tool and the key as shown in the image in order to establish a stable connection

PASSIVE ENTRY / KEYLESS IGNITION TESTING - VERIFY

Keys: The Verify step is used to verify that any work which has been performed previously on keys has been performed correctly. No new keys can be added in Verify.

Keys that were not faulty also cannot be updated. There is no reason to do so and this could lead to different, and possibly bad results, than was gathered in the check.

Keys that had some repair action made to them will be considered as "repaired keys", otherwise all other keys are "working keys".

Working keys will be listed exactly as they were displayed in the diagnosis step, showing their relevant information.

Repaired Keys will be listed with the repair that was carried out and also a prompt to select it to verify the repair.

Service History:

When you select the Service History icon on the tool it will take you to the vehicles you have serviced by today, 3 days, week, month, all. Or, you have the ability to find the vehicle based upon the license or VIN. When selecting a vehicle, you will be able to see if it was fully serviced by if it has a check mark when checking the TPMS icon.

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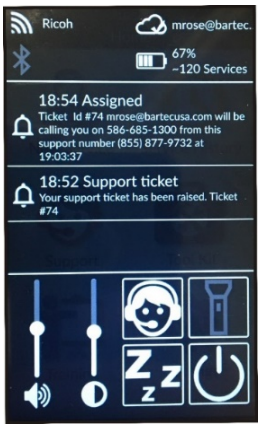
Support (On Tool)

The Tech1000, using Service Center via your Wi-Fi connection, supports on-tool requests for Technical Support. The user can request this support by swiping down (or click the power button once) to pull up the screen shown here.
To request support, press on the Technical Support Icon (person wearing the headset).



By clicking this icon, it will create a Tech Support ticket.

Tool Logs:

This information is used to be able to assist you as the customer with technical support.

Support Tickets:

This information shows you when you raised a support ticket for assistance, and if it was responded to yet. The support tickets will tell you when you can expect the call back and the technician and call back number they will be calling you back at.

Technical Support

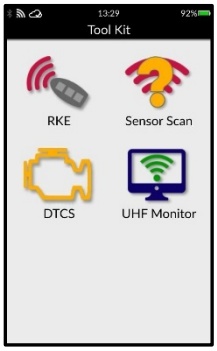
To speak with our Technical Support team, please call our toll-free number:**(866) 407-8767**

Hours of operation: 8am-9pm EST, Monday-Friday. 8am-4pm EST Saturday.
Or contact us by email: **help@bartecusa.com**
For efficient and accurate service, please have the following information ready when contacting us:

- **Tool Serial Number:** This allows your call information to be added to our database for future reference.
- **Make, Model, and Year of the vehicle:** Technical Support will need this information to reference any vehicle-specific issues.
- **Status of the TPMS light on the vehicle:** Is the TPMS light solid or flashing when the vehicle is first keyed on?
- **Ensure your tool is up to date:** Having an updated tool ensures you have all the latest information and features.
- **Sensor Part Number:** If you have installed one or more sensors to a vehicle, please have the part number ready in case Technical Support needs to reference sensor-specific information.
- **Have the vehicle in question in-house:** This helps our Technical Support team to walk you through resolving the situation.

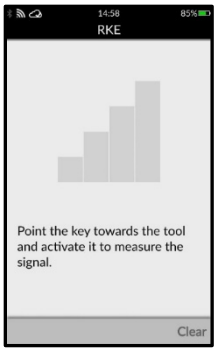
Tool Kit:

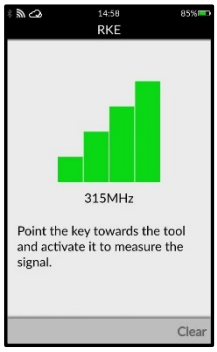
This is where you can find additional testing features.

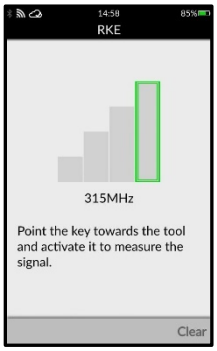


RKE:

Since certain relearn procedures require using a key fob, the RKE Test function can be used to ensure that a fob is transmitting properly.

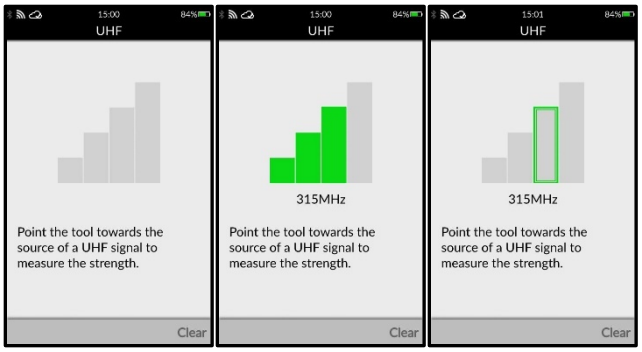






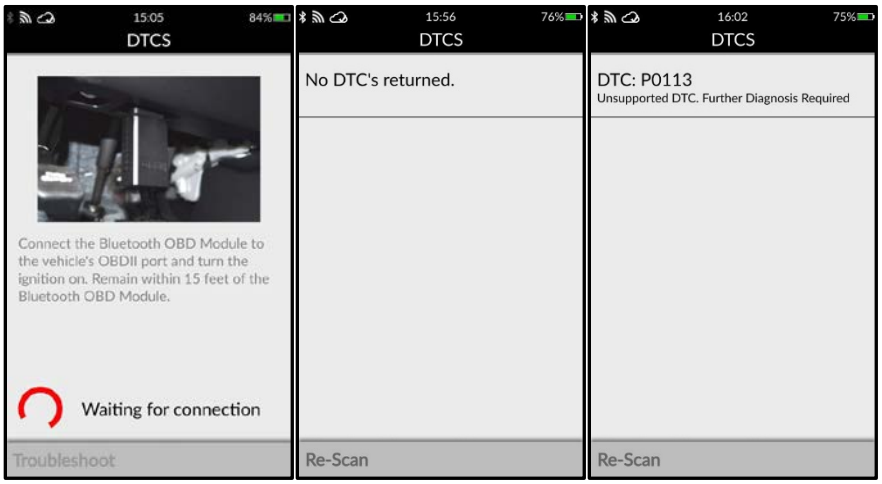
UHF:

The UHF Monitor feature tests for nearby UHF signals. If you suspect your tool is not scanning properly due to signal interference (e.g. works fine in one building, but fails in another), simply select UHF Monitor while in the suspected problem area. If the tool picks up any nearby signals, it will display accordingly on the readout.



DTC

The Tech1000 will allow the user to Read generic Diagnostic Trouble Codes (Check Engine Light).



Example:
P0113 is an OBDII trouble code that occurs when the Dodge Ram's engine management computer detects that there is an issue with the Intake Air Temperature (IAT) Sensor, specifically that there is a High Input Problem with it.

Sensor Scan:

Will be a function of simply scanning a sensor for identification. Coming soon!

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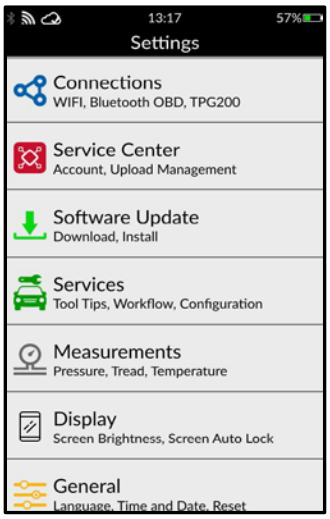
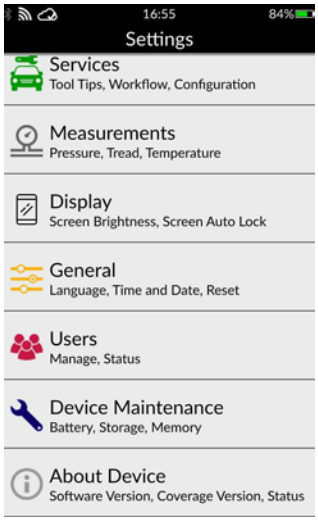
On Tool Training

The Tech1000 has on-tool videos (with and without sound). These training videos allow the user to watch topics on how to use their Tech1000.

Device Settings

Access the tool's settings by tapping SETTINGS on the HOME screen. Make all the appropriate changes and views under Connections, Service Center, Software Update (check for updates), Services, Measurements, Display, General, Users, Device Maintenance and About Device.





Connections- This is where you can find the Wi-Fi network, connected/connecting a VCI (OBD), connected/connecting TPG200

Service Center- Can view the logged in Service Center account. Manage is coming soon.

Software Update- Is where you can find if there is an update available or check for one.

Services- Where you can set up the Tool Tips you would like when doing services and Service Workflow of adding or removing steps to services.

Measurements- This is where you can find/change the unit of measure type.

Display- Where you can change the brightness of the display and also set the screen auto lock time from 15 seconds-5 minutes.

General- Where you can change the Language, Region, and the Date & Time.

Users- Coming soon!

Device Maintenance- Allows you to check the internal storage of the tool memory and Power Management which allows you to select the auto shutdown time period.

About Device- Gives you all software and hardware versions tied to the tool.

Tool Service

The Tech1000 is not field serviceable. If damage occurs, or the tool does not power on, follow these steps to get you back up and running again:

1. Contact our Technical Support team with your concerns. Please have the serial number ready.

2. If our Technical Support team cannot correct your issues in the field, they will begin the process for a Return Material Authorization (RMA) to have your tool sent in for service.

3. Our Technical Support team will assist you with the details on processing your return. Information you should receive includes:
    - Your RMA #
    - Ship-to address of our repair facility
    - Confirmation of your return shipping address

Proper Care and Cleaning:

- To properly clean your Tech1000 please gently use mild soap on a damp cloth to clean the tool. DO NOT USE citrus based cleaners as it may cause damage. DO NOT put this tool in or under water in any way.
- Do Not use any abrasives or chemicals on this tool
- To properly store the tool and VCI it is recommended that they stay in a protected area with normal operating conditions and temperatures.
- Do Not store in humid, dirty or dusty areas.
- Do Not drop or cause severe damage to the devices.
- Only use authorized charging components with the tool.

Accessories and Replacement Parts:

To purchase accessories for the Tech 1000 please call Bartec Sales at (866)-877-9732. The only replacement parts available for the Tech1000 are the wireless VCIs if lost or damaged.

Do not attempt to disassemble your Bartec tool or VCI unit, as this will void your warranty!

Technical Support

To speak with our Technical Support team, please call our toll-free number:

(866) 407-8767

Hours of operation: 8am-9pm EST, Monday-Friday. 8am-4pm EST Saturday.
Or contact us by email: **help@bartecusa.com**
Visit our website at **www.bartecusa.com** for a complete directory.

For efficient and accurate service, please have the following information ready when contacting us:

- **Tool Serial Number:** This allows your call information to be added to our database for future reference.
- **Ensure your tool is up to date:** Having an updated tool ensures you have all the latest information and features.
- **Sensor Part Number:** If you have installed one or more sensors to a vehicle, please have the part number ready in case Technical Support needs to reference sensor-specific information.
- **Make, Model, and Year of the vehicle:** Technical Support will need this information to reference any vehicle-specific issues.
- **Status of the TPMS light on the vehicle:** Is the TPMS light solid or flashing when the vehicle is first keyed on?
- **Have the vehicle in question in-house:** This helps our Technical Support team to walk you through resolving the situation.

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Appendices:

Glossary:

Audit Data is all the sensor and OBD data stored on the tool.

Bar units are commonly used in many Western European countries as a metric unit of pressure. 1 bar equals 100 kPa, or approximately 14.5038 psi.

Bluetooth is a wireless technology standard for exchanging data over short distances from fixed and mobile devices.

Direct System is a TPMS that has RF sensors in the wheels.

Hi-Line or High-Line is a TPMS type that has wheel-mounted receivers, which can force periodic transmissions from each wheel sensor to keep a continuously updated pressure status. Vehicles using hi-line TPMS usually have a graphic display in the dash.

Indirect System are the systems that do not have air pressure sensors inside the tires. Instead, they detect a low tire by comparing relative wheel speeds via the Anti-Lock Brake System (ABS) wheel speed sensors.

Inductive Charging or Qi (also known as "wireless charging") uses an electromagnetic field to transfer energy between two objects. This is usually done with a charging station. Energy is sent through an inductive coupling to an electrical device, which can then use that energy to charge batteries or run the device.

kPa (or kilopascal) is a metric unit of pressure measurement widely used throughout the world. 1 kPa equals approximately 0.145038 psi.

LF (Low Frequency) is the ITU designation for radio frequencies in the range of 30 kHz–300 kHz, usually 125 kHz with respect to TPMS technology.

Lo-Line or Low-Line is a TPMS type that uses a passive receiver to listen for sensor transmissions. Vehicles using low-line TPMS usually have a simpler dash display (e.g. a single on/off/flashing TPMS warning light).

Mini USB (Universal Serial Bus) is a smaller, 5-pin cable connector that is used by various handheld electronic devices. It is often used for both USB data connectivity as well as charging.

On-board diagnostics (OBD) is an automotive term referring to a vehicle's self-diagnostic and reporting capability. Modern OBD implementations use a standardized digital communications port to provide real-time data in addition to a standardized series of diagnostic trouble codes (DTCs), which allow one to rapidly identify and remedy malfunctions within the vehicle.

OBDII is a newer system standard introduced by the SAE in the mid-'90s. All cars built since January 1st, 1996 have OBDII systems.

Passive Key Technology (also referred to as I-Key) – Key systems on vehicles that operate wirelessly and use a push button start.

PSI (pound per square inch or, more accurately, pound-force per square inch) is a unit of pressure based on avoirdupois units, commonly used in the United States.

Relearn refers to the process of registering the sensor IDs to the vehicle's ECM.

RKE (Remote Keyless Entry) is an electronic lock that controls access to a vehicle without using a traditional mechanical key.

Secure Digital (SD) is a non-volatile memory card format developed by the SD Card Association for use in portable devices.

TPMS (Tire Pressure Monitoring System) is an electronic system designed to monitor the air pressure inside the tires on various types of vehicles.

UHF (Ultra High Frequency) is the ITU designation for radio frequencies in the range between 300 MHz and 3 GHz, usually 315 and 433.92 MHz with respect to TPMS technology.

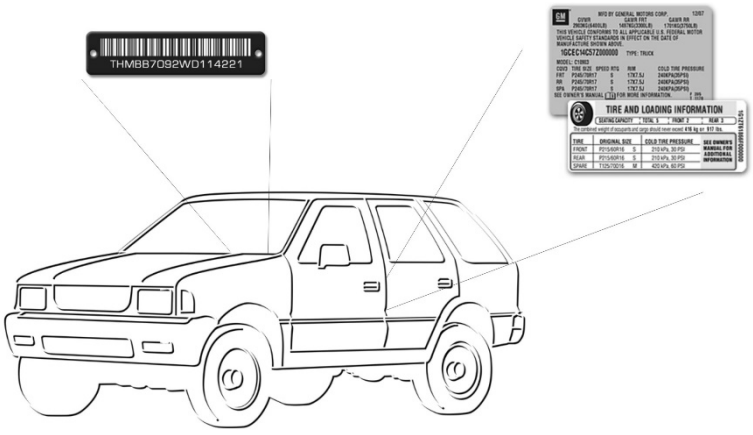
VIN (Vehicle Identification Number) is a unique code used by the automotive industry to identify individual motor vehicles.

WLAN or Wi-Fi is a local area network that uses high frequency radio signals to transmit and receive data over distances of a few hundred feet; uses Ethernet protocol.

Appendix C: VIN

When using the Tech1000, it is important to verify the Model Year you are working on to ensure that you are looking for the proper sensor and are using the proper vehicle COMs when necessary.

By using the vehicle's VIN instead of the manufacture date, you can accurately determine that vehicle's Model Year. Refer to that vehicle's VIN and locate the 10th digit from the left. Use the 10th digit to reference the chart below to determine the correct Model Year. The VIN is most commonly located at the base of the windshield on the driver's side, or on the tire placard in the driver's-side door jamb as per the diagram below.



Appendix D: FAQ & Troubleshooting

Q: The tool is set up correctly for make/model/ year, but the tool does not work on the sensor.

A: Check tool positioning. Use the 10th digit of the VIN to verify the vehicle's Model Year. TPM sensor could be faulty, or the vehicle could have the incorrect sensor type installed.

Q: I have a faulty sensor and the dealership gave me a new one, but it will not program to the vehicle.

A: The dealership may have provided the wrong sensor. Many vehicles of the same model might have 2 or 3 possible sensor variations to accommodate high and low pressure ranges, frequency, etc.

Q: I just rotated the vehicle's wheels. Do I need to relearn the sensors to the vehicle?

A: Yes. Bartec recommends that you ALWAYS perform a relearn after a tire rotation.

Q: The tool won't turn on.

A: Make sure battery is fully charged. Charge your tool for 4+ hours and retry powering it on.

Q: The option for "Send Data" does not appear under Send/Store Data.

A: Bluetooth is not enabled under My Tool > Bluetooth.

Q: I send data to TPMS Desktop, but nothing appears in the Audit section.

A: Verify the Date/Time is properly set on the tool (located under My Tool > Settings) and on your PC.

Q: I just updated. What's new with my tool?

A: Read the latest Software Release Document to review the latest updates Bartec has made to your software.

Q: How do I know if the sensor battery is low?

A: In some cases, you won't know since the battery might be too low to even transmit. If the sensor spec allows, when the sensor battery gets low, it will transmit a status and the Bartec tool will prompt with a Low Battery icon.

Q: I installed a sensor and I can't read it.

A: Did you use a programmable sensor? If so, you may have forgotten to program it. Programmable sensors usually must be programmed prior to reading.

Q: Does the Tech1000 require Wi-Fi to work?

A: The Tech1000 requires a Wi-Fi internet connection for tool registration, tool updating, and sending inspection data to Service Center. However, the tool can be used for TPMS Diagnostics and Repair while NOT connected to the network. Note: the tool will auto-reconnect when back in range of the Wi-fi network.

Q: How do I update the VCI?

A: The wireless VCI that comes with the Tech1000 is shipped with the latest software. There will be updates that are posted for the VCI. The VCI will need to be connected to a power supply (Vehicle) in order to update.

Q: How long does it take the Tech1000 to charge?

A: From a low battery 20% or less it can take up to 8 hours to fully charge.

Q: How do I program a sensor without being in a service?

A: Currently the only way to program a sensor will be in the guided process.

Q: Can I change the language of the Tech1000?

A: Yes, you can by going into settings, general, language from there you can select the language of your choice if you want to change it after setting up.

Q: Can this use a wired OBD cable?

A: The answer is no. The Tech1000 only supports the wireless VCI.

Q: What happens if I lose my VCI?

A: If you lose your VCI you will need to purchase another one from BARTEC USA. You will then have to go through the process of connecting the VCI via Bluetooth.

Q: What is the best way to clean the display on the Tech1000?

A: Best practice is to use a damp cloth and follow with a dry one. DO NOT use any citrus based products as it can harm the rubber surround.

Q: Does the Tech1000 get hot when placed on the QI charger?

A: The Tech1000 will feel warm/hot to the touch but not to worry it is normal for this type of charging.

Q: Can you use the vehicle battery management system reset?

A: Coming soon!

Q: Can you reset the settings back to factory?

A: Coming soon!

Appendix E: COMMS (OBD) Error Troubleshooting

If a problem or error occurs during the COMMS process, follow the steps below before calling technical support.

Check vehicle ignition
Vehicle ignition must be in the RUN position in order for vehicle COMMS process to complete.

Check VCI to Vehicle connection
Ensure the VCI is connected to the vehicle securely.

Verify Make, Model, and Year
COMMS can change from Model to Model, and Year to Year. Verify the tool is set-up to the proper MMY.

Verify tool power level
If the tool has a low battery charge, this may affect the COMMS process. Charge tool and try again.

Technical Specifications (Tool)

Characteristic	Specification
Battery (Power)	6000mAh Lithium Polymer rechargeable battery, not user serviceable
Max power consumption	1.5W High Power LF TPM, 0.5W all other TPM
Display	LED Color touchscreen, 4.3”, 800x480
Vehicle Connection	Bluetooth VCI (OBDII)
Working Environment	Temperature 32F to 113F, Humidity 20-55%
Storage Environment	Temperature 14F to 122F, Humidity 20-60%
Dimensions	7.375”x4.25”x1.875”
Weight (including Battery)	17.25oz.

LIMITED WARRANTY and REPAIR

Bartec products are guaranteed for a period of 2 year from the original date of purchase (either from the factory or authorized dealer). In order for your warranty to become active, you must register your tool with Bartec USA by mailing in the warranty card or registering on our website. We warranty that the tool will be free from defects in material and workmanship, when properly used. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL CONSUMER PURCHASER OF THIS PRODUCT. In the event of a defect, Bartec USA LLC will, at its discretion, repair or replace the tool with a product of like kind or quality, which may be new or reconditioned. The repaired or replaced product will be warranted for 90 days from the date of return shipment, or for the balance of the original warranty, whichever is longer. Claims of all defects must be submitted within 30 days of occurrence and verified by an authorized Bartec representative.

Limitation of Liability:

Under no circumstances shall Bartec be liable for any special, consequential or incidental damage arising from any defect in products manufactured or sold by Bartec outside of the responsibilities expressed by this warranty. No person, distributor or representative of Bartec is authorized to make any representations on behalf of Bartec beyond those expressly stated in the applicable literature. Bartec reserves the right to make design and other changes, modifications, or improvements without any obligation to install the same on previously sold or delivered products.

It is expressly agreed that the liability of Bartec is limited, and we do not function as an insurer. The remedies set forth in this warranty shall continue the exclusive remedies available to the purchaser or user and are in lieu of all other remedies expressed or implied. The liability of Bartec, whether in contract, or in tort, under any warranty or otherwise, shall not exceed the selling price by Bartec or the manufacture of the particular product made, sold, or supplied by Bartec.

Exclusions:

The following items are excluded from the warranty coverage:

- periodic maintenance and repair or replacement of parts due to normal wear and tear
- batteries (except internal)
- finishes
- service performed or attempted by anyone other than an authorized Bartec service technician

Opening, dismantling or repairing of this product by anyone other than an authorized Bartec technician will void this warranty.

This warranty does not apply to damage or loss by and for all the conditions:

- Freight Damage
- Decals, Overlays or Decorative Items
- Misuse or misapplication or failure to follow the directions, or failure to follow cautions or warnings on product, operation, service guides, etc.
- Minor stress cracks in surfaces that are considered cosmetic and have no effect on tool function or performance or safe use.
- Any damage related to fire, accident, misuse, acts of war, disaster, terrorism, or God.

It is expressly agreed that the liability of Bartec limited WARRANTY IS EXCLUSIVE. BARTEC DISCLAIMS ANY AND ALL OTHER WARRANTIES. Bartec USA, LLC does its very best to ensure the accuracy of the information contained in work instructions but cannot be responsible for errors or omissions by third party sources.

This warranty is exclusive to the original purchaser of the tool and is not transferable.

Repair Terms:

To obtain service for your Bartec tool the purchaser must obtain a Return Materials Authorization (RMA) number from Bartec USA customer service prior to shipping. Bartec shall not be liable for any expense incurred by purchaser in order to remedy a defect without prior authorization. To obtain your RMA number, you will need to provide at a minimum the follow: 1) Model and Serial Number, 2) Supplier from which the tool was purchased 3) Date of purchase, 4) Description of problem, how and when it occurred. Please note that Bartec USA may attempt to have you try some things in the field prior to issuing an RMA number to determine if the tool does need to come back. The purchaser must return the product per the instructions on the RMA form.

Bartec USA may refuse your delivery if the RMA number is not clearly marked on the outside of the box.

Bartec USA reserves the right to refuse to provide service free-of-charge if the sales receipt is not provided or if the information contained in it is incomplete or illegible or if the serial number is altered or removed. Bartec USA is not reasonable for any losses or damage to the product incurred while the product is in transit or is being shipped for repair.

IMPORTANT NOTE: **IN ORDER TO COMPLETELY & PROPERLY DIAGNOSE THE ISSUE THE ENTIRE KIT MUST BE RETURNED**

Freight:

Warranty Repair:

Inbound freight costs for warranty repair tools will be the responsibility of the customer. Freight costs out bound will be paid by Bartec and returned in the same method as the inbound.

Non-Warranty Repair:

Inbound freight costs for non-warranty repair tools will be the responsibility of the customer. Outbound Freight costs will be paid by Bartec and returned UPS ground.

MECHANICAL TOOLS & CABLES:

Warranty:

Bartec MECHANICAL Tools and cables are warranted for 180 days from the ORIGINAL purchase date (from an AUTHORIZED DEALER). When properly used and maintained, Bartec will warranty the tool to be free from defects in material and workmanship. The Warranty applies ONLY to the ORIGINAL OWNER and is not transferable. In the unlikely event of a defect, Bartec will at its discretion repair or replace the tool with a product of like kind or quality which may be new or reconditioned. The repaired or replaced product will be warranted for 90 days from the date of the return or the balance of the original warranty, whichever is longer. Claims of ALL defects must be submitted within 30 days of occurrence and verified by an AUTHORIZED BARTEC agent or representative.