Technical Bulletin

Bulletin No: TCH-013-029

Effective Date: 2/24/2020

Cancels: Same dated 12/04/2019

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subject: Bendix[™] SmarTire[®] TPMS Maintenance Hand Tool Software Update

In conjunction with the release of the new Bendix[™] SmarTire[®] TPMS sensor, Bendix is providing updated software for the Bendix SmarTire TPMS maintenance hand tool to allow the tool to support all functions of the new sensor. While this tool will initiate and learn the new TPMS sensors, the software must be upgraded to allow the tool to display data on the screen during these processes. Without the update, the tool will not read back and display the sensor ID code, pressure, temperature, or battery status.

The software update function is used to download the latest SmarTire Maintenance Tool software from a Personal Computer (PC) onto the tool. This bulletin outlines the items and steps required to carry out the download.

	Items Needed	Description
	Custom RS-232 Cable (included with tool when originally purchased)	This cable is required to connect the computer to the Maintenance Hand Tool
(e) (e) (e)	USB to Serial Cable	This cable is required if your computer does not have a serial port. Connect the serial end to the Custom RS-232 Cable and the USB end to your computer
	Personal Computer	Microsoft® Windows® Required
Bendix [™] SmarTire [®] TPMS Maintenance Hand Tool	Tool Update Software Program	The software that is required to update the Maintenance Hand Tool to the latest version
Part No. 090.0011		

Figure 1 – Materials Needed to Complete the Software Upgrade

With the release of the new Bendix TPMS Sensor (PNU-248), it is recommended that the software on the TPMS Maintenance Hand Tool be updated in order for all functions to work with the sensors.

Software Update Process

Be sure to have all of the items needed to complete the upgrade readily available. *See Figure 1.*

- The software update function is used to download the latest Bendix SmarTire TPMS Maintenance Tool software from a PC. Visit http://smartire. com/support/manuals to download the SmarTire Maintenance Tool 090.0011 Firmware Update Version 1.71 by completing the following steps:
 - a. Under the Downloads heading click on the "Version 1.71..." file.
 - b. Select the <u>Open</u> button, then the <u>Allow</u> button. The window shown in Figure 2 will open.
 - c. Click the <u>Extract To</u> button and the Extraction path and options window will open. In this window you will see the Destination path. This is the download location where the file is to be stored. Note the location or select a new location by clicking the down arrow

Extract To Button					
SmarTire_Maintenance_Tool_090-0011_Firmware_Upda	ate_1-71.zip - Wi	nRAR			
File Commands pools Favorites Options Help					
🝠 🔯 🕽 🗠 🏷 🙀	🍢 🔃		1	9	
Add Extract To Test View Delete Find SmarTire_Maintenance_Tool_090-0011_Firmv	Wizard Info	VirusSc 1.zip - ZIP	an Comment Sl	X ize 1,434,684 by	/tes
Add Extract To Test View Delete Find SmarTire_Maintenance_Tool_090-0011_Firm Name	Wizard Info ware_Update_1-7 Size	VirusSc 1.zip - ZIP Packed	an Comment Sl archive, unpacked s Type	ize 1,434,684 by Modified	rtes CRC32
Add Extract To Test View Delete Find S SmarTire_Maintenance_Tool_090-0011_Firm Name	Wizard Info ware_Update_1-7 Size	VirusSc 1.zip - ZIP Packed	an Comment SI archive, unpacked s Type Local Disk	X ize 1,434,684 by Modified	rtes CRC32
Add Extract To Test View Delete Find SmarTire_Maintenance_Tool_090-0011_Firm Name But State Bu	Wizard Info ware_Update_1-7 Size 619,978	VirusSc 71.zip - ZIP Packed 489,415	an Comment SI archive, unpacked s Type Local Disk Adobe Acrobat	X ize 1,434,684 by Modified 10/28/2013	rtes CRC32 F0D099
Add Extract To Test View Delete Find SmarTire_Maintence_Tool_090-0011_Firm Name SW2809_ST_Hand_Tool_rev1.04.pdf jtpm.hex	Wizard Info ware_Update_1-7 Size 619,978 92,776	VirusSc 71.zip - ZIP Packed 489,415 37,103	an Comment SI archive, unpacked s Type Local Disk Adobe Acrobat HEX File	X Modified 10/28/2013 11/30/2017	rtes CRC32 F0D099 7B1028
Add Extract To Test View Delete Find SmarTire_Maintenance_Tool_090-0011_Firm Name Watten Wattenance_Tool_rev1.04.pdf tool_rev1.04.pdf	Wizard Info ware_Update_1-7 Size 619,978 92,776 459,786	VirusSc 71.zip - ZIP Packed 489,415 37,103 337,109	an Comment SI archive, unpacked s Type Local Disk Adobe Acrobat HEX File IrfanView BMP	X Modified 10/28/2013 11/30/2017 6/15/2006 9	rtes CRC32 F0D099 7B1028 D2F72

Figure 2 – Maintenance Tool Software Startup

in this box or by selecting the <u>New folder</u> button. Once the location is selected, click \underline{OK} to save.

 When the download is complete, go to this file location on the computer and open this folder. Select tpmsUpdatePC (.exe) to execute the software update. Note, this file will not execute correctly from the window shown in Figure 2.



Figure 3 – Hardware Connections

4. Power on the TPMS Maintenance Tool and press and hold the middle button for two (2) seconds to enter the set-up menu on the tool. *See Figure 3.* The set-up menu icon shown below will display on the tool.

Set-Up Menu	Refer to the menu options for more information to set-up specific options.
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- Use the left and right buttons to navigate up or down and select the update function on the tool menu. Press the button to select the update function.
- 6. When the software update icon (⊑⇔♡) is displayed (*see below*), press the left ✓ button to start the update mode. *Press the* → *button to return the set-up menu.*

	This icon allows the user
Software	to download the latest
Update	software from an attached
	PC.

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7. Follow the instructions and prompts provided by the software update program on the PC. The welcome screen is shown in Figure 4. Select the "Next" button to begin the update process.

	TPMSA Software Upda	te Utility	
This Wizard will g 3 easy steps:	guide you through procedures of pro	gramming TPMSA device. There are	
Step 1: Setup Step 2: Scan Step 3: Progr	o serial connection between PC and the device. amming the Device.	the device.	
You should conne Refer to the instru	ect the Device to the computer and uction manual for details.	place the Device in "Update Mode".	
Click "Next" to (°ontinue.		
CHOR NEXT ID C		\searrow	
		K Back Next >	Car

Figure 4 – Welcome Screen

8. The Set-up Serial Connection and Scan Device screen (shown in Figure 5) appears next. *Select the "Scan Device" button*. Once the device is found, *select the "Next" button*.

Note: Ensure the COM port being used is less than 10. The software will not detect the device if the COM port is greater than 10.



Figure 5 – Set-up Serial Connection and Scan Device Screen

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9. The Programming Target screen (shown in Figure 6) is the next screen to appear. *Select the "Start Programming" button*. Wait for the programming to complete. "Programming in Process, Please Wait" will appear on the screen while the program is updating. *See Figure 7*.



Figure 6 – Programming Target Screen

	Progra	amming In Pro	ocess, Please	Wait	
Elapse	Time: 0:6				
		Start Pro	gramming		

Figure 7 – Programming in Process Screen

10. When the programming is complete, the screen will contain the pop up window shown in Figure 8. Select the "OK" button and then select the "Finish" button to complete the programming of the Bendix[™] SmarTire[®] TPMS Maintenance Tool.

Programming Target	Σ
	Programming In Process, Please Wait
	TPMSA Updating The device has been updated successfully
	ОК
	< Back. Finish Cancel

Figure 8 – Final Programming Screen

The tool will be updated and show the software version 1.71 when powering up.

Software Installation Troubleshooting

If troubleshooting assistance is needed to complete the software download, please contact the Bendix Tech Team at 1-800- AIR-BRAKE (1-800-247-2725), option 2.



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