

T55003

TPMS Tool Manual



To ensure correct operation and service, read the following instructions before operating the T55003 Tool.

1. T55003 INTRODUCTION

The T55003 interacts with the tire pressure sensor through wireless (radio frequency) communication to:

- Retrieve data from the tire pressure sensor
- Verify the identities of each tire pressure sensor mounted on vehicle
- Assist a technician to reset TPMS on the vehicle



9 volt battery Included, rechargeable – install in back of tool prior to operation



USB Connection – to connect with computer to download software updates



2. KEYPAD SUMMARY AND FUNCTIONS



Power Key – power on the tool; check battery status



Transmit Key – to start a test cycle



Arrow Keys – navigation through menu and adjust options up and down



Selection Key – press to enter chosen function or validate an option



Cancel Key – press to return to the previous menu without option validation or press and hold to turn off tool



Keypad – key in sensor identification number

Power Key

(A) Press the Power Key to power on the tool

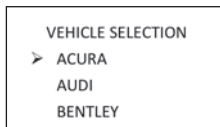
- (1) At power on, the tool displays the TechSmart® logo.



- (2) Then it displays the software version number.

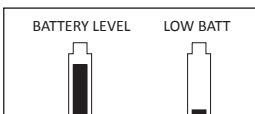


- (3) Finally, the tool displays the vehicle selection menu.



(B) Press and hold Power Key after powering on to display battery status

- (1) When the tool is powered on, press the Power Key to display the battery level.
- (2) If the battery power is low, "LOW BATT" will flash and the tool will turn off. Recharge the 9V battery with the included charger to restore power to the tool.



Arrow Keys

Scroll up/down or increase/decrease numerical values

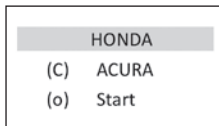
Cancel Key

- (A) Press the Cancel Key to return to previous page without modifying an option
- (B) Press and hold the Cancel Key for 3 seconds to power off the tool

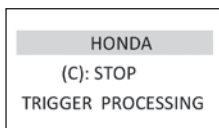
Transmit Key

Starts the acquisition cycle for a sensor

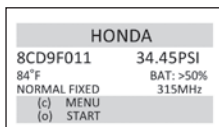
- (1) After selecting a vehicle from the "VEHICLE SELECTION" on the main menu, the screen will indicate "(o) READ SENSOR". Press the Transmit Key to gather sensor information.



- (2) After pressing the Transmit Key, the message "TRIGGER PROCESSING" is displayed.



- (3) After a few seconds, the tool will vibrate, make a noise and display the tire sensor data.




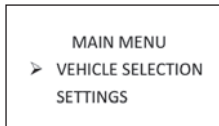
Selection Key



Press the Selection Key to open a menu, enter an option or confirm an option

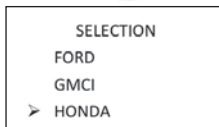
3. QWIK-SENSOR™ ACTIVATION FOR OE SENSOR REPLACEMENT




Activate Sensor

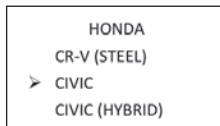
- (1) From the main menu, select the "VEHICLE SELECTION" option with the Selection Key .




- (2) Proceed to select the desired vehicle manufacturer using the Arrow Keys , and enter using the Selection Key .

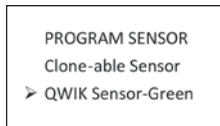


- (3) Proceed to desired manufacturer model using the Arrow Keys  and enter with the Selection Key . After choosing model, indicate production year using the Selection Key .



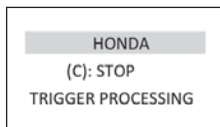
-  **Ensure the car being worked on is at least 10 feet from all cars and TPMS sensors (OE, Clone-able, or QWIK-SENSOR™).**

- (4) Select QWIK-SENSOR™. Correct sensor color will be displayed based on inputted information.

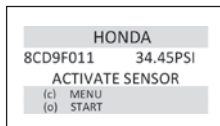


- (5) Using the Arrow Keys  select "ACTIVATE SENSOR" using the Selection Key . Place the QWIK-SENSOR™ in the cradle or if the sensor is in the wheel, ensure the PSI is '0'.


- (6) Press the Transmit Key . The tool will begin to locate and receive data from the selected tire sensor, indicated by the message "TRIGGER PROCESSING".




- (7) After a few seconds, the tool will vibrate, make a noise and display the tire sensor data. The QWIK-SENSOR™ is now activated and can be relearned to the vehicle following OE relearn procedure.

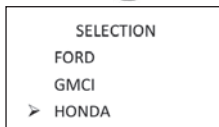





Scan OE Sensor ID Number

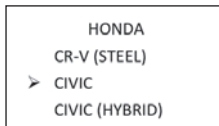
- (1) From the main menu, select the "VEHICLE SELECTION" option with the Selection Key .



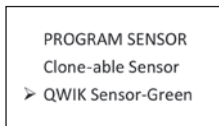
- (2) Proceed to select the desired vehicle manufacturer using the Arrow Keys , and validate with the Selection Key .



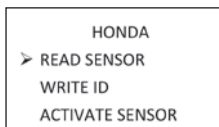
- (3) Proceed to desired manufacturer model using the Arrow Keys  and enter with the Selection Key . After choosing model, indicate production year using the Selection Key .




- (4) Select Clone-able sensor or QWIK-SENSOR™. For QWIK-SENSOR™ correct sensor color will be displayed based on inputted information.



- (5) Select "READ SENSOR".




-  **Ensure the car being worked on is at least 10 feet from other vehicles and TPMS sensors (OE, Clone-able, or QWIK-SENSOR™).**

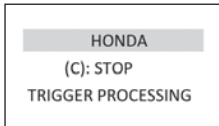
- (6) Place tool by tire (start at **left front**). Position the tool near the valve stem between the rim and rubber, as shown.



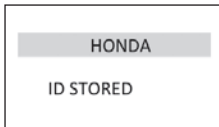
4. OE SENSOR REPLACEMENT USING TECHSMART® "COPY ID"

-  **Before removing tires, complete all steps through step (15). Use TPMS Application and Cross Reference Guide to determine appropriate OE-Matching Clone-able sensor or QWIK-SENSOR™ needed to replace OE sensors.**

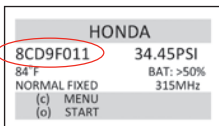
- (7) Press the Transmit Key . The tool will begin to locate and receive data from the selected tire sensor, indicated by the message "TRIGGER PROCESSING".




- (8) The screen will indicate that the OE sensor ID number has been stored into the tool's memory.



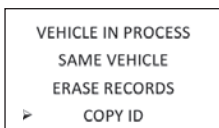
- (9) Display will show sensor information. Log OE ID number and tire location.




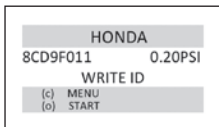
Write ID to Clone-able sensor or QWIK-SENSOR™

-  **Ensure the car being worked on is at least 10 feet from other vehicles and TPMS sensors (OE, Clone-able, or QWIK-SENSOR™).**

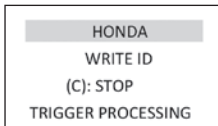
- (10) Press the Cancel Key  to display sensor menu.



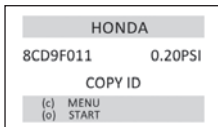
- (11) To write the OE sensor ID that was just detected to a new Clone-able sensor or QWIK-SENSOR™, use the Arrow Keys  and select "COPY ID" to display OE sensor information. Place the Clone-able sensor or QWIK-SENSOR™ in front of T55003 antenna or in the cradle, as shown.




- (12) Press the Transmit Key  to begin writing the OE sensor ID number onto the Clone-able sensor or QWIK-SENSOR™.






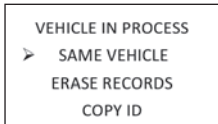
- (13) The tool will display "COPY ID" and write the OE sensor ID number onto the new Clone-able sensor or QWIK-SENSOR™.



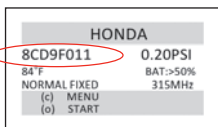
ID Verification

-  **Ensure the car being worked on is at least 10 feet from other vehicles and TPMS sensors (OE, Clone-able, or QWIK-SENSOR™).**

- (14) Press the Cancel Key  to go back to the "VEHICLE IN PROCESS" menu. Scroll to "SAME VEHICLE" and press Selection Key . Hold the programmed Clone-able sensor or QWIK-SENSOR™ in front of the antenna or the cradle, as shown and press Transmit Key .




- Match this number with the number recorded in step (9) to verify that the correct OE ID number has been written onto the Clone-able sensor or QWIK-SENSOR™.



Installation

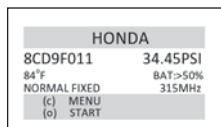
- (15) Break down tire in accordance with vehicle manufacturer's specifications, remove OE sensor, install new sensor on wheel, replace tire on car and pressurize. Ensure tire pressure is at or above the minimum tire pressure listed on the placard of the car.

 Repeat for remaining tires. All OE sensors should have **UNIQUE ID NUMBER**. All **Clone-able sensor or QWIK-SENSOR™** should be cloned to match the OE number for a specific tire location exactly. Remove old sensors from the area.

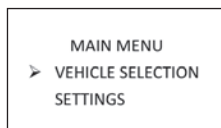
 If you are experiencing difficulties, please see **Troubleshooting Guide** on page 7.

5. MANUAL ID WRITING

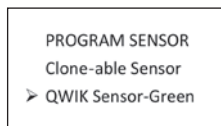
- (1) To retrieve general OE sensor information, refer to steps 1 – 9 of Scan OE Sensor ID Number on pages 3 – 4.



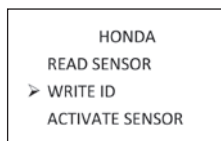
- (2) Press the **C** key to return to the main menu. From the main menu, select **V** “VEHICLE SELECTION” to enter sensor writing menu. Choose make, model and year.



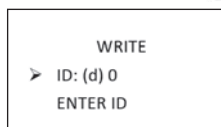
- (3) Select Clone-able sensor or QWIK-SENSOR™. For QWIK-SENSOR™ correct sensor color will be displayed based on inputted information.



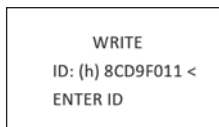
- (4) Press the Selection Key **S** to choose “WRITE ID”.



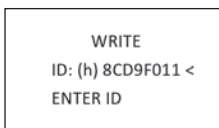
- (5) Once in the sensor writing menu, press the Selection Key **S** to input sensor ID. Arrow will move from left side to right side of screen. Clear old numbers by pressing **C**.



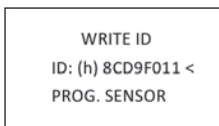
 When entering ID, select **(h)** hexadecimal with arrow keys **S**. Then enter ID number.



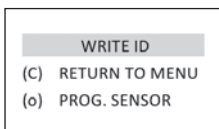
- (6) Once the sensor ID has been entered, press the Selection Key **S** again to move arrow to left side of screen. The “ENTER ID” message will change to “PROG. SENSOR”



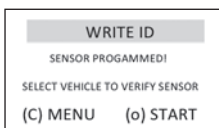
- (7) Place the new Clone-able sensor or QWIK-SENSOR™ or in the cradle, as shown and select **S** again to move arrow to left side of screen. The “ENTER ID” message will change to “PROG. SENSOR”.



- (8) To program the OE sensor ID onto the new Clone-able sensor or QWIK-SENSOR™, press the Transmit Key **T**.

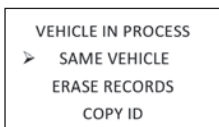


- (9) The new Clone-able sensor or QWIK-SENSOR™ is now programmed with the OE sensor's ID number.



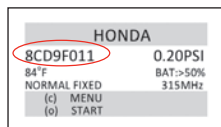
ID Verification

- (10) Press the Cancel Key **C** to go back to the “VEHICLE IN PROCESS” menu. Scroll to “SAME VEHICLE” and press Select Key **S**. Hold the programmed Clone-able sensor or QWIK-SENSOR™ in front of the antenna or the cradle, as shown and press Transmit Key **T**.






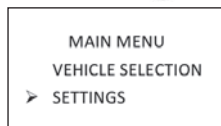
Match this number with the number recorded in step 9 to verify that the correct OE ID number has been written onto the Clone-able sensor or QWIK-SENSOR™.



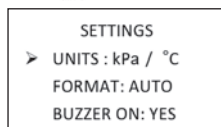
The sensor is ready to be installed on the vehicle.

6. ADJUSTING T55003 SETTINGS

- (1) From the main menu, select "SETTINGS" with the Selection Key .



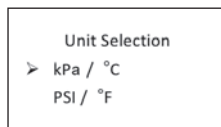
- (2) Use the up and down Arrow Keys  and , the feature to be adjusted.




-  After adjusting setting, use the  key to return to main menu.

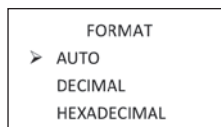
Units

Use the Selection Key  to enter unit selection and use the Arrow Keys  and  to highlight desired units (kPa/ °C or PSI/ °F) and select with .





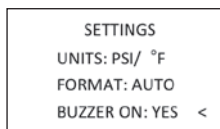
Format

Change the display format between decimal and hexadecimal with . The preset setting is AUTO that automatically changes format based on input.





Buzzer

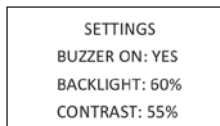
User can select if the tool will vibrate after receiving tire sensor information. Scroll to "BUZZER ON" on settings screen, press Selection Key  and use Arrow Keys  to toggle between "YES" or "NO".





Backlight/Contrast

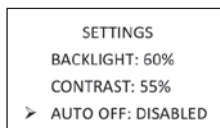
User can adjust the brightness and contrast of display. Press Selection Key  to move cursor to right of display and use the Arrow Keys  to adjust $\pm 1\%$.

Tip: A brighter display will consume battery more quickly



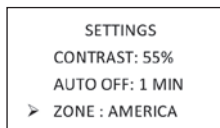
Auto-Off

User can adjust how quickly the tool will turn off after a period of non-use. This feature can also be disabled. Press Select Key  to move cursor to the right of display and use the Arrow Keys  to select desired amount of auto-off time.



Zone

User can modify the zone between America, Europe, Asia and other.



7. UPDATING T55003 SOFTWARE


To access the latest software version for your TechSmart® T55003, please visit:

www.QWIKSENSOR.com

NOTICE

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- (1) This device will not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

 **Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

8. TROUBLESHOOTING GUIDE

PROBLEM: TPMS light remains on after installation of new sensors.

SOLUTION: May require over-inflating tire and then reducing PSI to proper level to activate sensor(s).

Spare tire may be equipped with TPMS. Check vehicle owner's manual to verify if TPMS monitors spare tire. If so, ensure proper air pressure and functioning sensor in spare tire.

PROBLEM: Newly written ID number on Clone-able sensor or QWIK-SENSOR™ does not match the OE ID number after using "COPY ID".

SOLUTION: Check your format in settings. Change to appropriate format. Hexadecimal reads ID number in alphanumeric format (numbers and letters) while decimal format reads ID number in only numeric format (numbers only). Try writing the sensor manually or go through the auto relearn process.

PROBLEM: After scanning sensor, "NO SENSOR DETECTED" appears on screen.

SOLUTION: Try re-positioning the T55003 tool. Ensure correct sensor is being used via the "TPMS Application & Cross Reference Guide" and matches the OE part number of the sensor on the vehicle. Ensure the vehicle being worked on is at least 10 feet from all other vehicles and TPMS sensors (OE, Clone-able, or QWIK-SENSOR™). Position the tool near the valve stem between the rim and rubber.

PROBLEM: TPMS lamp is illuminated in vehicle after removing damaged OE sensors.

SOLUTION: Remove uninstalled OE sensors from the area as damaged sensors will continue to transmit signal.

9. TECHNICAL SPECIFICATIONS

Dimensions:	152mm x 82mm x 33mm
Battery:	9V
Communication port:	USB
Display:	4 line LCD, 65mm x 32mm
Weight:	220g
Temperatures:	Operational: 5°C to 45°C / 41°F to 113°F
	Storage: 0°C to 60°C / 32°F to 140°F
Relative humidity:	70% - 80%

10. SAFETY TIPS



SWITCH ON SAFELY

Do not switch on the device when wireless tool is prohibited or when it may cause interference or danger.



SWITCH OFF WHEN REFUELING

Do not use the device when filling vehicle with gasoline. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Adhere to any restrictions. Do not use the tool when blasting is in progress.



USE SENSIBLY

Use only in normal conditions as indicated in product instructions. Do not touch the antenna unnecessarily.



QUALIFIED SERVICE

Only qualified personnel may install or repair this device.



ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries for the T55003 tool. Do not connect incompatible products.



WATER RESISTANCE

The tool is not water resistant – keep it dry.



CONNECTING TO OTHER DEVICES

When connecting to any other device, read user guide for detailed safety instructions. Do not connect incompatible products.



THIS DEVICE IS A RADIO TRANSMITTER AND RECEIVER.

11. CARE AND MAINTENANCE

The T55003 is a product of superior design and craftsmanship and should be treated with care. Follow the suggestions below to help maintain warranty coverage:

- Keep the device dry. Precipitation, humidity and all types of moisture may contain minerals that will corrode electronic circuits. If device does get wet, remove the battery and allow the device to dry completely before replacing.
- Do not use or store the tool in dusty, or dirty areas. Keep the electronic components clean.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not attempt to open the device other than instructed in this guide.
- Do not drop, knock or shake the device. Rough handling can break internal circuit boards and mechanics.
- Do not use harsh chemicals, cleaning solvent or strong detergent to clean the device. Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Do not touch the main display with hard or angular material. Objects like earrings or jewelry may scratch the display.
- Use a soft, clean and dry cloth to clean the device.
- Use only the supplied antenna. Unauthorized antennas, modifications or attachments could damage the device and may violate regulations governing radio devices.
- The power connection cord is NOT COMPATIBLE with a USB interface. Please do not use with other USB devices.

All of the above suggestions apply equally to your device, battery or any enhancements. If device is not working properly, contact Standard Motor Products, Inc.

12. RF CERTIFICATION

This device meets guidelines for exposure to radio waves.

This device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

For further information see ICNIRP "guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic field (up to 300GHz)" or contact Standard Motor Products, Inc.

The SAR value for this device is less than 5W/kg. This value is the reference level for general public exposure to time varying electric and magnetic fields (unperturbed rms values) for the 3-150 KHz frequency range.

13. WARRANTY

Standard Motor Products, Inc. products are guaranteed from material defects for 365 days after the date of purchase. If the product fails under normal circumstances within the first year, Standard Motor Products, Inc. will repair or replace the product. Product will not be replaced or repaired if damaged from misuse or incorrect application. To obtain repair or replacement of the product under warranty, please contact Standard Motor Products, Inc. Proof of purchase and date of purchase are required to validate the warranty claim.

Standard Motor Products, Inc. is not liable for any direct or consequential loss or property damage arising from use of product.



Warranty does not cover tire valves or screws for tire valves. The tire valves and screws need to be replaced when rotating tires, changing tires or changing the TPMS sensors. If installing/reinstalling a TPMS sensor, new valves and screws should be used.



We recommend that you only use Standard Motor Products, Inc. replacement parts. Other brands will not function properly with this tool.

14. QUESTIONS

Any questions pertaining to warranty information or other questions not answered in the preceding pages can be answered by the TechSmart® place of purchase or by Standard Motor Products, Inc.'s Customer Service.

1-888-621-8767 (USA)
1-877-666-5325 (Canada)

For additional information on TPMS and TechSmart® products, visit

www.QWIKSENSOR.com

**Thank you for your purchase
and enjoy your new
TechSmart® T55003
Clone-able Tool!**