

SMART SENSOR 17-43060

SMART SENSOR Elite Programming/Diagnostic Tool User Manual

Model: 17-43060

1. INTRODUCTION

The SMART SENSOR Elite Programming/Diagnostic Tool is designed to simplify the process of diagnosing failed sensors, programming new Smart Sensors, and performing vehicle relearns.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Elite tool and associated components.



Figure 1: The SMART SENSOR Elite Programming/Diagnostic Tool kit. This image displays the black, textured carrying case for the Elite diagnostic tool, along with two boxes of "SMART Sensor ONE" multi-frequency programmable universal TPMS sensors (each box containing 10 sensors) and several metal valve stems. A smaller box of sensors is also visible.

2. SETUP

2.1 Unboxing and Initial Inspection

- Carefully open the packaging and remove all components.
- Verify that all items are present: Elite Programming/Diagnostic Tool (in case), 20 Smart Sensors, 4 Metal Stems, OBDII Cable, and Magnet.

- Inspect all components for any signs of damage. If any items are damaged or missing, contact customer support immediately.

2.2 Powering On the Tool

1. Ensure the Elite tool's internal battery is sufficiently charged. If not, connect the provided charging cable to a suitable power source.
2. Press and hold the power button located on the device until the screen illuminates.
3. Follow any on-screen prompts for initial setup, such as language selection or date/time settings.

2.3 Connecting the OBDII Cable

- Locate the OBDII port in the vehicle (typically under the dashboard on the driver's side).
- Connect one end of the provided OBDII cable to the Elite tool and the other end to the vehicle's OBDII port.
- Ensure a secure connection at both ends.

3. OPERATING INSTRUCTIONS

3.1 Diagnosing Failed Sensors

1. With the tool connected to the vehicle, navigate to the "Diagnosis" or "Sensor Test" menu on the Elite tool.
2. Select the vehicle make, model, and year as prompted.
3. Follow the on-screen instructions to trigger each TPMS sensor. This may involve holding the tool near each tire's valve stem.
4. The tool will display sensor ID, pressure, temperature, and battery status, indicating if a sensor is faulty.

3.2 Programming New Smart Sensors

The Elite tool supports programming of new SMART SENSOR multi-frequency universal TPMS sensors.

1. From the main menu, select "Program Sensor" or "Create Sensor".
2. Choose the programming method:
 - **Copy by Activation:** Activate the original sensor to read its ID, then program the new sensor with that ID.
 - **Copy by Manual Input:** Manually enter the original sensor's ID.
 - **Auto Create:** Generate a new, unique sensor ID for the vehicle.
3. Place the new SMART SENSOR near the tool's programming area.
4. Confirm the programming process on the tool.

3.3 Performing Vehicle Relearns

After replacing or programming TPMS sensors, the vehicle's ECU must be updated to recognize the new sensor IDs.

1. Navigate to the "Relearn" menu on the Elite tool.
2. Select the vehicle make, model, and year.
3. Follow the specific relearn procedure displayed on the tool. Procedures vary by vehicle and may include:
 - **OBDII Relearn:** The tool communicates directly with the vehicle's ECU via the OBDII port.
 - **Automatic Relearn:** Driving the vehicle for a certain period.
 - **Manual Relearn:** A sequence of steps performed using the vehicle's dashboard controls.
4. Confirm successful relearn on the tool and vehicle dashboard.

3.4 Using the Magnet

The included magnet may be used for certain vehicle-specific relearn procedures that require a magnetic trigger for the TPMS sensors. Refer to the vehicle's service manual or the Elite tool's on-screen instructions for specific applications.

4. MAINTENANCE

4.1 Cleaning the Tool

- Wipe the Elite tool and its accessories with a soft, dry cloth.
- For stubborn dirt, use a slightly damp cloth with mild soap, then dry thoroughly.
- Do not use abrasive cleaners or solvents, as these can damage the tool's casing or screen.

4.2 Storage

- Store the Elite tool and all components in the provided protective case when not in use.
- Keep the case in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure sensors are stored in their original packaging or a suitable container to prevent damage.

4.3 Battery Care

- Charge the tool's internal battery regularly, even if not in frequent use, to maintain battery health.
- Avoid completely draining the battery before recharging.
- If the tool will not be used for an extended period, charge it to approximately 50% before storage.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not power on.	Low or depleted battery.	Connect the tool to a power source and allow it to charge.
Tool does not communicate with vehicle.	OBDII cable not securely connected; Vehicle ignition off; Vehicle's OBDII port issue.	Ensure OBDII cable is firmly connected. Turn vehicle ignition to ON position (engine off). Check vehicle's fuse for OBDII port.
Sensor not detected during diagnosis/programming.	Sensor too far from tool; Sensor faulty or unpowered; Incorrect vehicle selection.	Hold sensor closer to the tool. Ensure sensor is new or has sufficient battery. Verify correct vehicle make/model/year.
Vehicle relearn fails.	Incorrect relearn procedure; Vehicle-specific issue.	Double-check the relearn procedure for the specific vehicle. Consult vehicle service manual or manufacturer support.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please refer to the support section for further assistance.

6. SPECIFICATIONS

Feature	Detail
Model Number	17-43060
Brand	SMART SENSOR

Feature	Detail
Power Source	Battery Powered
UPC	639601843602
Included Components	Elite Programming/Diagnostic Tool, 20 Smart Sensors, 4 Metal Stems, OBDII Cable, Magnet, Protective Case
Functionality	TPMS Sensor Diagnosis, Smart Sensor Programming (Copy by Activation, Copy by Manual Input, Auto Create), Vehicle Relearns (OBDII, Automatic, Manual)

7. WARRANTY INFORMATION

Specific warranty terms and conditions for the SMART SENSOR Elite Programming/Diagnostic Tool are typically provided with the product at the time of purchase or can be found on the manufacturer's official website. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please visit the [SMART SENSOR official website](#) or contact their customer support.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or troubleshooting beyond the scope of this manual, please contact SMART SENSOR customer support.

Contact information (phone, email, or support portal) is usually available on the product packaging, the manufacturer's official website, or through your point of purchase.

Online Resources: For the most up-to-date information, software updates, and additional resources, please visit the [SMART SENSOR official website](#).

