

Subaru SOA9010001

Subaru Battery Charger and Maintainer

MODEL: SOA9010001 USER MANUAL

1. Introduction

This manual provides comprehensive instructions for the safe and effective use of your new Subaru Battery Charger and Maintainer, model SOA9010001. This device is designed to charge and maintain 12-volt lead-acid batteries, ensuring optimal performance and extending battery life for your Subaru vehicle. The Subaru Battery Charger and Maintainer is compatible with various Subaru models, including but not limited to: 2019-2025 Ascent, 2019-2025 WRX, 2019-2025 BRZ, 2019-2025 Legacy, 2019-2025 Outback, 2019-2025 Crosstrek, 2019-2025 Forester, 2019-2025 Impreza, and 2019-2021 STI.

2. Important Safety Information

Please read and understand all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Always connect the charger to a grounded outlet. Do not expose the charger to rain or wet conditions. Disconnect power before making or breaking connections to the battery.
- **Battery Safety:** Batteries can produce explosive gases. Ensure adequate ventilation when charging. Wear eye protection and protective clothing. Avoid sparks or flames near the battery.
- **Personal Safety:** Keep children and unauthorized persons away from the charging area. Do not operate the charger if it has been dropped or damaged.
- **Intended Use:** This charger is designed for 12-volt lead-acid batteries only. Do not use it for charging dry-cell batteries that are commonly used with home appliances.

3. Package Contents

Verify that all items are present in the package:

- Subaru Battery Charger and Maintainer Unit (Model SOA9010001)
- Alligator Clip Connectors (Red and Black)
- Ring Terminal Connectors (Red and Black)
- Protective Bumper (as indicated on packaging)
- User Manual (this document)



Figure 1: The retail packaging for the Subaru Battery Charger and Maintainer, highlighting the product name, brand, and key features such as 'Protective Bumper Included'.

4. Product Overview

The Subaru Battery Charger and Maintainer is a compact and efficient device designed for optimal battery care. It features a user-friendly interface with indicator lights to display charging status and mode selection.



Figure 2: The Subaru Battery Charger and Maintainer, model SOA9010001, showing the main unit, control panel, and two types of battery connectors: alligator clips and ring terminals. The unit features indicator lights for charging status and mode selection.

Components:

- **Main Unit:** Contains the charging circuitry and control panel.
- **Mode Button:** Used to select charging modes (e.g., Normal, AGM, Recond).
- **Indicator Lights:** Display charging progress, battery status, and selected mode.
- **Power Cord:** Connects the charger to an AC power outlet.
- **Battery Connection Cables:** Interchangeable cables with alligator clips or ring terminals for connecting to the battery.

5. Setup

5.1 Initial Inspection

Before use, inspect the charger, cables, and connectors for any signs of damage. Do not use if any part is damaged.

5.2 Connecting to the Battery

1. Ensure the charger is unplugged from the AC power outlet.
2. Choose the appropriate battery connection cable (alligator clips for temporary connection, ring terminals for semi-permanent installation).
3. Connect the **RED (+)** connector to the positive battery terminal.
4. Connect the **BLACK (-)** connector to the negative battery terminal or a grounded part of the vehicle chassis away from the battery.
5. Ensure connections are secure.

5.3 Connecting to Power

1. Once the battery connections are secure, plug the charger's power cord into a standard 120V AC grounded electrical outlet.
2. The charger will perform a self-test, and indicator lights will illuminate.

6. Operating Instructions

6.1 Mode Selection

After connecting to power, the charger will typically default to a standard charging mode. Press the **MODE** button on the charger to cycle through available charging programs:

- **NORMAL:** Standard charging for most 12V lead-acid batteries.
- **AGM:** Optimized charging for Absorbent Glass Mat (AGM) batteries.
- **RECOND:** Reconditioning mode for deeply discharged or sulfated batteries (use sparingly and only if recommended by battery manufacturer).

Refer to your vehicle's battery type to select the appropriate mode. The selected mode will be indicated by an illuminated LED on the charger's panel.

6.2 Charging Process

Once a mode is selected, the charger will automatically begin the charging process. The indicator lights will show the progress:

- **Charging Indicators:** A series of LEDs (e.g., 25%, 50%, 75%, 100%) will progressively illuminate to show the battery's charge level.
- **Full Charge:** When the battery is fully charged, the "100%" or "FULL" indicator will illuminate steadily. The charger will then automatically switch to maintenance mode.

6.3 Maintenance Mode

In maintenance mode, the charger monitors the battery voltage and provides a gentle charge as needed to keep the battery at optimal levels. This prevents overcharging and sulfation, making it ideal for long-term storage of vehicles.

6.4 Disconnecting the Charger

1. Unplug the charger from the AC power outlet first.

2. Disconnect the **BLACK (-)** connector from the battery negative terminal or chassis.
3. Disconnect the **RED (+)** connector from the battery positive terminal.

7. Maintenance

7.1 Cleaning

Wipe the charger casing with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the charger is unplugged before cleaning.

7.2 Storage

Store the charger in a cool, dry place when not in use. Keep cables neatly coiled to prevent damage.

8. Troubleshooting

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; faulty connection; damaged charger.	Check AC outlet with another device. Ensure power cord is securely plugged in. Inspect charger for damage.
Battery not charging.	Incorrect battery connection; battery is severely discharged or damaged; incorrect mode selected.	Verify positive and negative connections. Test battery condition. Select appropriate charging mode.
Charger enters error mode (if applicable).	Reverse polarity connection; short circuit; internal fault.	Disconnect immediately. Recheck battery connections for correct polarity. Inspect cables for damage. If problem persists, contact support.

9. Specifications

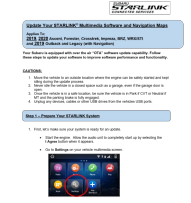



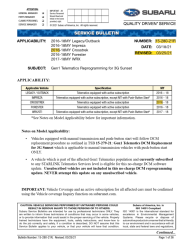
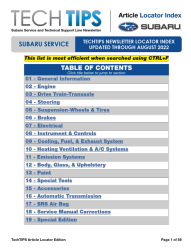
- **Model:** SOA9010001
- **Brand:** Subaru
- **Output Voltage:** 12 Volts
- **Item Weight:** 1.85 pounds
- **Product Dimensions:** 1.75"D x 6"W x 2.5"H
- **Manufacturer Part Number:** SOA9010001
- **Color:** Black
- **Specification Met:** OEM

10. Warranty and Support

This Subaru Battery Charger and Maintainer is covered by Subaru's standard warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Subaru website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact your authorized Subaru dealer or Subaru Customer Service. You can find contact information on the official Subaru website: www.subaru.com/customer-support.html

Related Documents - SOA9010001

	<p>Update Subaru STARLINK Multimedia Software and Navigation Maps Guide</p> <p>A comprehensive guide for Subaru owners on how to update their STARLINK multimedia system software and navigation maps. Covers methods via Wi-Fi and USB drive for 2019-2020 models.</p>
	<p>Subaru EyeSight Driver Assist Technology 2020 Quick Guide</p> <p>A comprehensive guide to Subaru's EyeSight Driver Assist Technology for 2020 models, covering its features, operation, and limitations. Learn about Pre-Collision Braking, Adaptive Cruise Control, Lane Keep Assist, and more.</p>
	<p>May 2022 Subaru TechTIPS: Service and Technical Support Newsletter</p> <p>The May 2022 edition of Subaru TechTIPS, a newsletter for service technicians, covering topics like TechShare QMR of the Month, component replacement, navigation issues, touch screen concerns, Harman unit issues, and aftermarket device impacts.</p>
	<p>2011 Subaru Warranty & Maintenance Booklet: Owner's Guide</p> <p>Comprehensive guide to 2011 Subaru vehicle warranties, including new vehicle, powertrain, and emissions coverage, along with essential maintenance schedules and tips for owners.</p>
	<p>Subaru STARLINK Telematics 3G Sunset Reprogramming Service Bulletin</p> <p>This service bulletin provides instructions for technicians on how to perform a telematics reprogramming update for Subaru vehicles affected by the 3G sunset. It details the applicability, procedure, and troubleshooting steps for the Gen1 Telematics Reprogramming for 3G Sunset.</p>
	<p>Subaru TechTIPS Article Locator Index</p> <p>A comprehensive index of Subaru TechTIPS newsletters, covering a wide range of service and technical information from general maintenance to specific model updates and troubleshooting guides.</p>