

Bosch S5A13

Bosch S5A13 Car Battery Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and effective use of your Bosch S5A13 car battery. The Bosch S5A13 is a 12V, 95Ah, 850A AGM (Absorbent Glass Mat) battery specifically designed for vehicles equipped with Start/Stop systems. Its advanced technology ensures high starting power and a longer service life compared to conventional batteries.

Please read these instructions carefully before installation and operation to ensure optimal performance and safety.



Image: Front view of the Bosch S5A13 car battery, clearly displaying the model number, 95Ah capacity, and 850A (EN) starting current.

PRODUCT OVERVIEW

The Bosch S5A13 battery incorporates several features designed for modern vehicle demands:

- **Performance:** 95Ah capacity, 850A cold cranking current (EN), 12V nominal voltage.
- **Dimensions:** 353 mm (Length) x 175 mm (Width) x 190 mm (Height).
- **Polarity:** Left negative, right positive.
- **Optimized Starting Power:** Features patented PowerFrame grid technology for efficient energy flow.
- **Extended Lifespan:** Up to 4 times longer cycle resistance than conventional starter batteries due to absorbed glass mat technology, which minimizes self-discharge.
- **Consistent Power Delivery:** Absorbed acid in glass microfibers ensures stable power output, even during short trips or heavy traffic.
- **Reliable Starting:** Uniform acid distribution prevents stratification and premature aging, ensuring dependable starts in extreme temperatures and with multiple electrical consumers.
- **Maintenance-Free:** Minimal water consumption thanks to a double labyrinth lid design that condenses and returns water to the battery.

- **High Safety:** Equipped with double flame arrestors and integrated central degassing.
- **Start/Stop Compatibility:** Specifically designed for vehicles with Start/Stop systems.



Image: Angled view of the Bosch S5A13 car battery, highlighting its robust construction and labeling.

SETUP AND INSTALLATION

Safety Precautions

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle's ignition is off and all electrical consumers are disconnected before starting.
- Avoid contact with battery acid. In case of contact, rinse immediately with plenty of water and seek medical attention.
- Do not smoke or use open flames near the battery. Batteries produce explosive gases.
- Keep out of reach of children.

Installation Steps

1. **Vehicle Compatibility:** Before installation, verify that the Bosch S5A13 battery is compatible with your vehicle's make, model, and year. Refer to your vehicle's owner's manual or a professional mechanic.
2. **Disconnect Old Battery:** First, disconnect the negative (-) terminal, then the positive (+) terminal. Remove any hold-down clamps.
3. **Remove Old Battery:** Carefully lift the old battery out of the battery tray. Batteries are heavy; use proper lifting techniques or assistance.
4. **Clean Battery Tray and Terminals:** Clean any corrosion from the battery tray and cable terminals using a wire brush and battery terminal cleaner.
5. **Place New Battery:** Position the Bosch S5A13 battery securely in the battery tray. Ensure it is stable and

cannot move.

6. **Connect New Battery:** First, connect the positive (+) terminal, then the negative (-) terminal. Tighten the connections firmly but do not overtighten.
7. **Secure Battery:** Reinstall any hold-down clamps to prevent battery movement during driving.
8. **Final Check:** Ensure all connections are secure and there are no loose parts.

Note: For vehicles with complex electrical systems or Start/Stop technology, professional installation is highly recommended to avoid potential issues.



Image: Close-up view of a battery terminal, showing the connection point and a protective cover.



Image: Rear view of the Bosch S5A13 car battery, displaying important warning symbols and the lead (Pb) recycling mark.

OPERATION

The Bosch S5A13 AGM battery is engineered to meet the demanding requirements of modern vehicles, especially those equipped with Start/Stop systems. These systems reduce fuel consumption and CO2 emissions by shutting off the engine when the vehicle stops and restarting it automatically when the driver intends to move.

The AGM technology allows for a higher number of engine starts and provides consistent power for the vehicle's electrical components during engine-off phases. This ensures reliable starting performance even under frequent start-stop cycles and varying environmental conditions.



Image: Front view of the Bosch S5A13 car battery, emphasizing its AGM technology and suitability for Start/Stop vehicles.

MAINTENANCE

The Bosch S5A13 AGM battery is designed to be **100% maintenance-free**. This means you do not need to check or refill the electrolyte levels. The sealed design and AGM technology prevent water loss and acid leakage.

However, to maximize the battery's lifespan and ensure optimal performance, consider the following:

- **Keep Clean:** Periodically inspect the battery terminals and top for dirt, debris, or corrosion. Clean with a damp cloth if necessary.
- **Secure Connections:** Ensure battery terminals remain tightly connected to prevent power loss or damage.
- **Charging:** If the vehicle is stored for extended periods or used infrequently, it is advisable to use a compatible AGM battery charger to maintain a full charge. This prevents deep discharge, which can shorten battery life.
- **Avoid Deep Discharge:** While AGM batteries are more resilient, repeated deep discharges can still reduce their overall lifespan.



Image: Side view of the Bosch S5A13 car battery, illustrating its sealed, maintenance-free design.

TROUBLESHOOTING

If you experience issues with your Bosch S5A13 battery, consider the following common problems and solutions:

- **Vehicle Not Starting or Slow Cranking:**

- Check battery terminal connections for tightness and corrosion.
- Ensure the battery is fully charged. If the vehicle has been unused for a while, it may require charging.
- Verify that all vehicle lights and accessories were turned off when the engine was not running.

- **Start/Stop System Malfunction:**

- The Start/Stop system may temporarily deactivate if the battery charge is low or if ambient temperatures are extreme.
- Ensure the battery is fully charged.
- **Critical Note:** Using a conventional battery in a Start/Stop vehicle will lead to premature failure (typically within 2-6 months). The Bosch S5A13 is specifically designed for these systems.

• **Battery Warning Light On:**

- This indicates a potential issue with the charging system or the battery itself.
- Have the battery and charging system (alternator) tested by a qualified mechanic.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician for diagnosis and repair.

TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Bosch
Model Number	0092S5A090 (S5A13)
Capacity	95 Ah
Cold Cranking Amps (CCA)	850 A (EN)
Voltage	12 Volts (DC)
Dimensions (L x W x H)	353 mm x 175 mm x 190 mm
Item Weight	10 Kilograms
Battery Composition	VRLA Lead-Acid (AGM)
Terminal Type	SAE Terminal
Polarity	Left Negative, Right Positive
Country of Origin	Austria

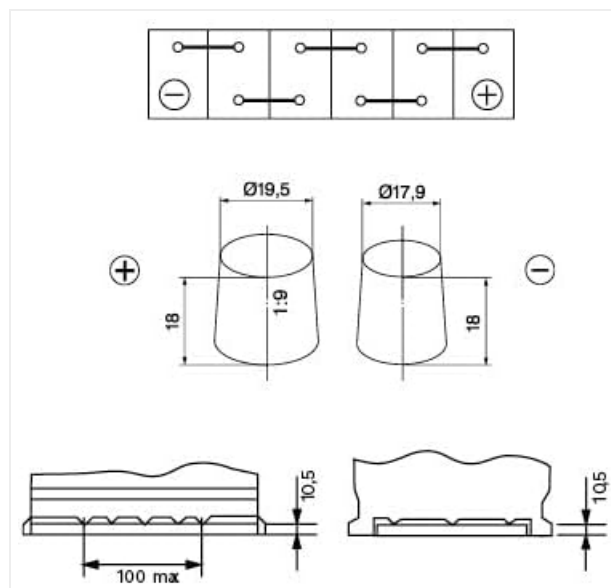


Image: Dimensional diagram of the Bosch S5A13 battery, illustrating its length, width, and height.

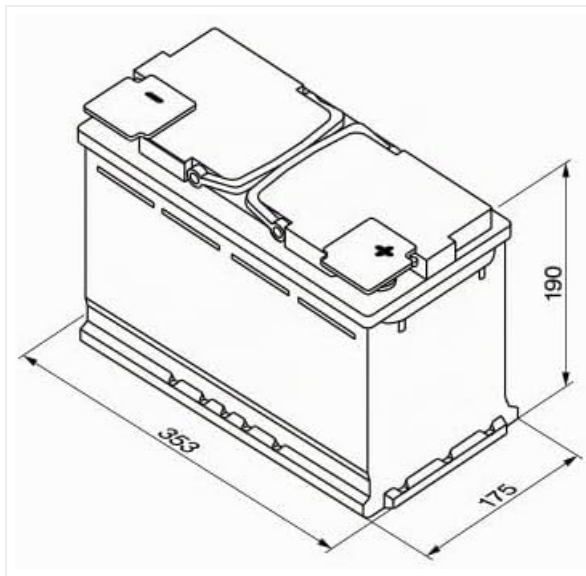


Image: Technical diagram detailing the battery terminal specifications and dimensions.

WARRANTY AND SUPPORT

Your Bosch S5A13 battery comes with a standard manufacturer's warranty of **2 years** from the date of purchase.

Additionally, this battery is eligible for the Bosch Easy Way program, which offers extended benefits and services:

- **Easy Garantie:** An additional 1 year of warranty, extending your total warranty to 3 years.
- **Easy Start:** Battery assistance services.
- **Easy Tech:** Free battery testing.
- **Easy Promotion:** Exclusive refund offers and promotions.

How to Join the Easy Way Program:

1. Purchase your Bosch battery and retain the proof of purchase.
2. Register online at bosch-easyway.fr. Fill out the online form and upload your proof of purchase, or send it by post within 4 weeks of your purchase.
3. Enjoy exclusive promotions and services by logging into your personal account with your email address.

For further support or warranty claims, please refer to the Bosch Easy Way website or contact Bosch customer service.