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## Sanooer SA-PBC5514-SDB

# Sanooer Towing Mirrors User Manual

Model: SA-PBC5514-SDB

## 1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Sanooer Painted Black Towing Mirrors. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. Product Overview and Features

The Sanooer Towing Mirrors are designed to enhance visibility and safety when towing. They come equipped with multiple functions for convenience and improved driving experience.

### Key Features:

- **Adjustable Power Upper Glass:** The large flat mirror can be adjusted electrically for optimal viewing angles.
- **Dual Glass Design:** Includes both a flat mirror (power adjustable) and a convex mirror (manual adjustment) to provide a wider field of view and reduce blind spots.
- **Switchback Dynamic Turn Signal Light:** Features white running lights and dynamic amber turn signals to increase vehicle visibility.
- **Arrow LED Turn Signal Light:** Integrated LED arrow turn signals for clear indication.
- **White Running Lights:** Provides continuous white illumination during vehicle operation.
- **Backup Light:** Alerts other drivers when reversing and provides additional illumination.
- **Heated Function:** Defrosts and defogs the mirror glass for clear visibility in adverse weather conditions.
- **Temperature Sensor:** (Only on the right side) Alerts the driver to the outside temperature.
- **Manual Telescoping:** Allows for manual extension of the mirror housing to expand the field of view, especially useful for towing.
- **Manual Folding:** Mirrors can be manually folded for parking in tight spaces or for protection.
- **Painted Black Covers:** Durable painted black finish.




**Figure 2.1:** Overview of mirror functions including flat glass, convex glass, arrow turn signal, backup light, running light, dynamic turn signal, and temperature sensor.




**Figure 2.2:** Illustration of the sequential turn signal (amber) and running light (white) functionality.




**Figure 2.3:** Details of the LED turn signal lights and the bright backup lights for enhanced safety.




**Figure 2.4:** Explanation of the electronically adjustable plane mirror and the manually adjustable convex mirror for optimal visibility.

## MODEL COMPARISON TABLE

| Model / Year | 2014 (new body) | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|
| Chevy Silverado 1500 | √ | √ | √ | √ | √ | |
| Chevy Silverado 1500 Legacy | | | | | | √ |
| Chevy Silverado 2500 HD | | √ | √ | √ | √ | √ |
| Chevy Silverado 3500 HD | | √ | √ | √ | √ | √ |
| GMC Sierra 1500 | √ | √ | √ | √ | √ | |
| GMC Sierra 1500 Limited | | | | | | √ |
| GMC Sierra 2500 HD | | √ | √ | √ | √ | √ |
| GMC Sierra 3500 HD | | √ | √ | √ | √ | √ |

**Figure 2.5:** Visual representation of the heated mirror function effectively removing moisture for clear visibility and the presence of a temperature sensor.

## 3. Compatibility

These towing mirrors are compatible with the following vehicle models and years:

- 2014-2018 Chevy Silverado 1500
- 2015-2019 Chevy Silverado 2500HD 3500HD
- 2019 Chevy Silverado 1500 Legacy
- 2014-2018 GMC Sierra 1500
- 2015-2019 GMC Sierra 2500HD 3500HD
- 2019 GMC Sierra 1500 Limited

It is recommended to verify compatibility using your vehicle's year, brand, and model before installation.

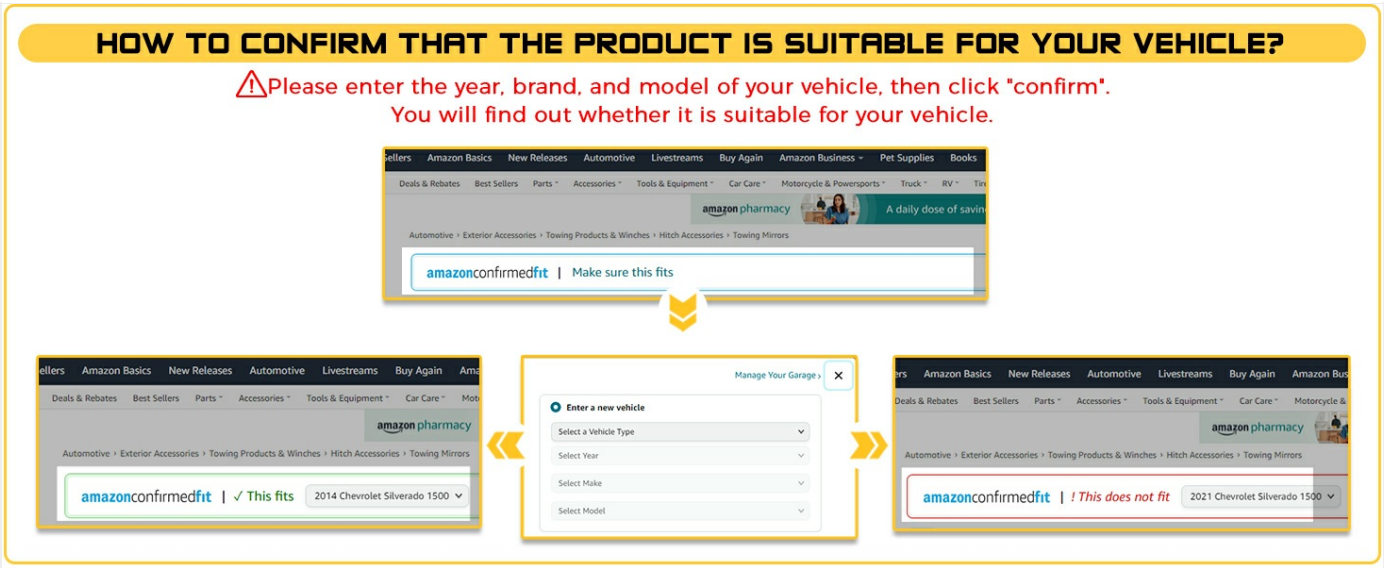



**Figure 3.1:** Model comparison table indicating compatibility with various Chevy Silverado and GMC Sierra models by year.

## 4. Setup and Installation

The Sanooer Towing Mirrors are designed for direct replacement. Professional installation is highly recommended to

ensure correct wiring and secure mounting.

### Included Components:

- One pair of Sanooer Towing Mirrors (Left and Right)

### General Installation Steps (Consult a professional for detailed instructions):

1. **Preparation:** Ensure the vehicle is turned off and the battery is disconnected to prevent electrical issues.
2. **Remove Old Mirrors:** Carefully remove the existing side mirrors from the vehicle door. This typically involves removing interior door panels to access mounting bolts and electrical connectors.
3. **Mount New Mirrors:** Position the new Sanooer Towing Mirrors onto the door mount. Secure them using the appropriate hardware.
4. **Connect Wiring:** Connect the electrical harness of the new mirrors to the vehicle's wiring. Ensure all connections are secure and correctly matched for power, heating, turn signals, running lights, and backup lights.
5. **Test Functions:** Reconnect the battery and test all mirror functions (power adjustment, heating, turn signals, running lights, backup lights, telescoping, folding) before reassembling the door panel.
6. **Reassemble:** Reinstall the interior door panels and any other components removed during the process.

**Note:** Incorrect installation can lead to electrical malfunctions or improper mirror operation. If you are not confident in performing the installation yourself, seek assistance from a qualified automotive technician.

## 5. Operating Instructions

### 5.1. Mirror Adjustment

- **Power Upper Glass:** Use your vehicle's existing mirror control switch to adjust the angle of the large, flat upper mirror.
- **Convex Lower Glass:** The smaller convex mirror is manually adjustable. Gently push the mirror surface to achieve the desired angle for a wider view.

### 5.2. Telescoping and Folding

- **Manual Telescoping:** To extend the mirrors for towing, grasp the mirror housing and pull it outwards until it locks into the extended position. To retract, push the mirror housing inwards.
- **Manual Folding:** To fold the mirrors against the vehicle body, gently push the mirror assembly towards the vehicle. To unfold, pull it back into the operating position.




**Figure 5.1:** Illustration of how to manually telescope and fold the towing mirrors.

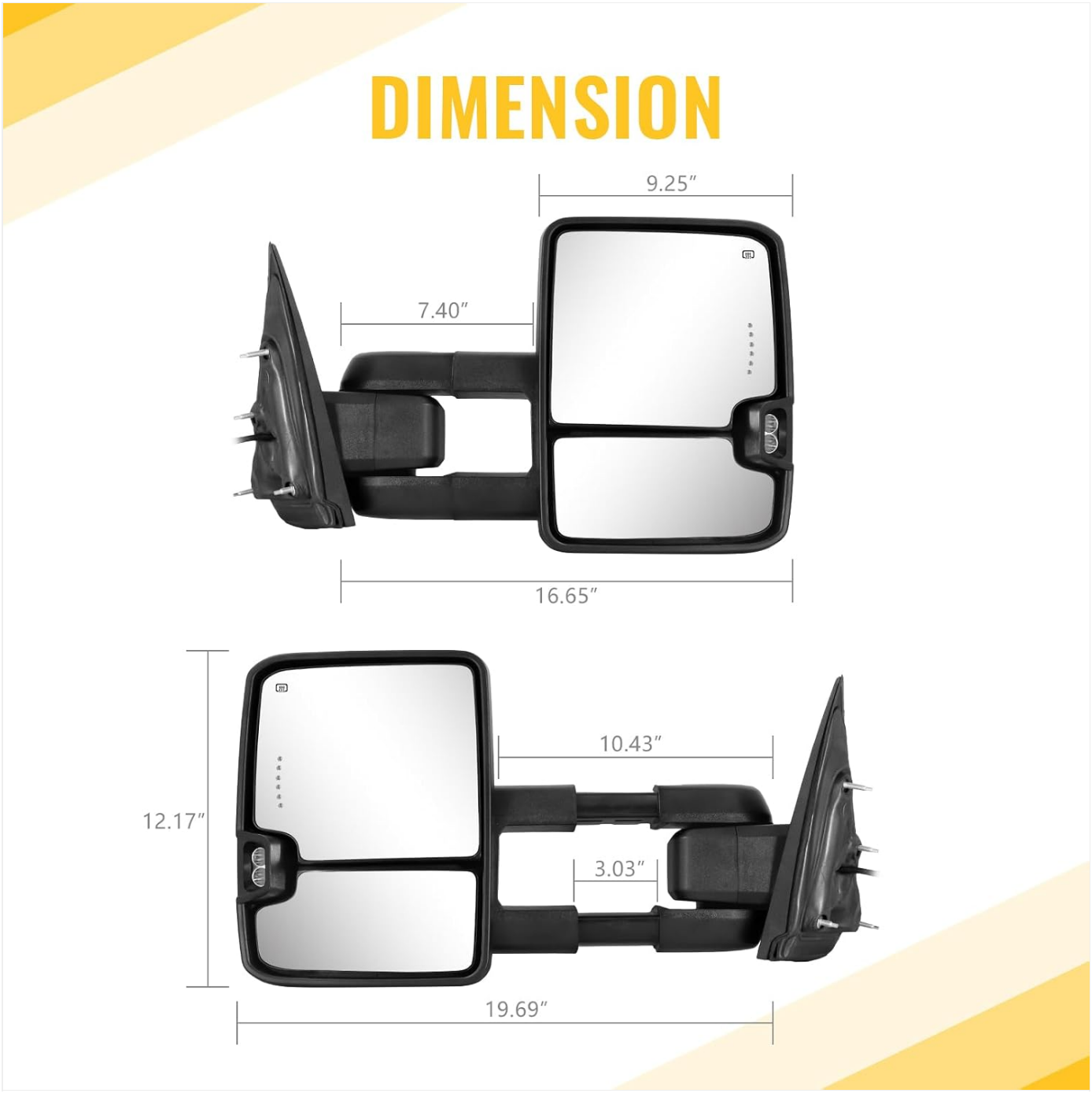



**Figure 5.2:** Comparison of the field of view with mirrors in standard and telescoping positions, highlighting improved visibility when extended.

## 5.3. Lighting Functions

- **Running Lights:** These white lights illuminate automatically when your vehicle's running lights are active.
- **Dynamic Turn Signals:** When the turn signal is activated, the amber lights will illuminate in a dynamic, sequential pattern.
- **Backup Lights:** These lights activate when the vehicle is shifted into reverse, providing additional illumination and alerting others.

## 5.4. Heated Function

- The heated mirror function activates with your vehicle's rear defroster or a dedicated mirror heat switch, if equipped. This helps to clear frost, ice, and fog from the mirror surface.




**Figure 5.3:** Visual demonstration of the heated mirror function effectively removing moisture for clear visibility.

## 6. Maintenance

- **Cleaning:** Clean the mirror glass and housing regularly with a mild automotive cleaner and a soft cloth. Avoid abrasive cleaners or harsh chemicals that could damage the finish or mirror surface.
- **Inspection:** Periodically inspect the mirrors for any signs of damage, loose connections, or wear. Ensure all lights are functioning correctly.
- **Winter Care:** In freezing conditions, ensure the mirrors are free of ice before attempting to fold or telescope them to prevent damage to the mechanisms. The heated function will assist in clearing ice and frost.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|

| Problem | Possible Cause | Solution |
|---|---|---|
| Mirrors do not adjust electrically. | Loose electrical connection, blown fuse, motor malfunction. | Check wiring connections. Inspect vehicle's fuse box for a blown fuse related to mirrors. If issues persist, consult a professional. |
| Heated function not working. | Blown fuse, faulty wiring, heating element failure. | Verify fuse for heated mirrors/rear defroster. Check wiring. Professional inspection may be required. |
| Lights (turn signal, running, backup) not illuminating. | Loose electrical connection, faulty bulb/LED, wiring issue. | Ensure all wiring connections are secure. Check for damaged LEDs. Consult a professional for complex electrical diagnostics. |
| Mirrors are difficult to telescope or fold. | Debris in mechanism, lack of lubrication, physical damage. | Clean any visible debris. Apply a silicone-based lubricant to moving parts. Do not force the mechanism if resistance is high. |

## 8. Specifications

| Feature | Detail |
|---|---|
| Brand | Sanooer |
| Model Number | SA-PBC5514-SDB (also SA-7255-14-SDB) |
| Color | Black (Painted) |
| Auto Part Position | Front |
| Mounting Type | Door Mount |
| Included Components | Towing Mirror (Pair) |
| Special Features | Adjustable, Fogless (Heated) |
| Item Weight | 10.43 Kilograms (approx. 23 pounds) |
| Fit Type | Vehicle Specific Fit |
| Size | Manual Fold, Manual Telescoping |
| Shape | Rectangular |
| Lens Curvature | Flat (Upper Glass), Convex (Lower Glass) |
| Lighting | Switchback Dynamic Turn Light, Running Lights, Backup Light, Arrow LED Turn Signal |
| Heating | Yes |
| Temperature Sensor | Yes (Right Side Only) |




**Figure 8.1:** Dimensional drawing showing key measurements of the towing mirror in both folded and extended positions.

## 9. Warranty and Support

For warranty information, technical support, or assistance with installation and troubleshooting, please contact Sanooer customer service. Refer to your purchase documentation for specific warranty terms and contact details.

You can typically find support information on the Sanooer brand store page or through the retailer where the product was purchased.

**Sanooer Brand Store:** Visit Sanooer Store on Amazon

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