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> YHTAUTO Power Adjusted Heated Towing Mirrors for Toyota Tundra (2007-2021) and Sequoia (2008-2017) - Model YHTMI0020

YHTAUTO YHTMI0020

YHTAUTO Power Adjusted Heated Towing Mirrors

MODEL: YHTMI0020

For Toyota Tundra (2007-2021) and Toyota Sequoia (2008-2017)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your YHTAUTO Power Adjusted Heated Towing Mirrors. These mirrors are designed to enhance visibility and safety, especially when towing, by offering a wider field of view and integrated lighting and detection features. Please read this manual thoroughly before installation and use to ensure proper function and safety.

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Video 1: Overview of YHTAUTO Towing Mirrors for Toyota Tundra and Sequoia. This video demonstrates the product's appearance and key features.

2. Vehicle Compatibility

These towing mirrors are compatible with the following Toyota vehicle models:

- **Toyota Tundra:** 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
- **Toyota Sequoia:** 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017

Important Note: Ensure your vehicle possesses the necessary functionalities (e.g., wiring for specific features like blind spot detection, heating) that these towing mirrors offer. Failure to do so may result in certain mirror features being inoperable.

3. Product Features

The YHTAUTO towing mirrors are equipped with multiple features designed for enhanced driving safety and convenience:

- **Power Adjusted Main Mirror:** Allows for in-car angle adjustment of the flat main mirror. The convex lower

mirror is manually adjustable.

- **Power Heated:** Provides quick defogging or defrosting of the mirror glass in cold or wet weather conditions, ensuring clear visibility.
- **Blind Spot Detection (BSD):** Detects and warns of vehicles in your side and rear blind spots. This feature is for vehicles originally equipped with BSD.
- **Arrow Turn Signal Light:** An arrow-shaped light integrated into the mirror glass illuminates when turning, warning other drivers of your intentions.
- **LED Backup Lights:** Provides additional illumination for improved side and rear visibility when reversing.
- **Rear Turn Signal Light:** A separate turn signal light on the rear of the mirror housing indicates vehicle turning intentions.
- **Running Light:** Enhances vehicle visibility at night or in low-light conditions.
- **Manual Telescoping:** Allows the mirror to extend outwards for a wider field of view, particularly useful when towing wide loads.
- **Manual Folding:** Mirrors can be folded inwards to reduce width, useful in tight spaces or when parking.
- **Dual Lens Design:** Features a flat main mirror for accurate distance perception and a convex lower mirror for a broader view of adjacent lanes and blind spots.
- **Durable Construction:** Made from Acrylonitrile Butadiene Styrene (ABS) and glass, designed for high strength, thermostability, aging resistance, and waterproofing.



Image 1: Visual representation of the YHTAUTO towing mirror highlighting its various functions such as power adjustment, heating, and integrated lighting.

Power Heated

Clear vision with fast vapor evaporation



Image 2: Depiction of the power heated function, showing how the mirror clears moisture for clear vision in adverse weather conditions.

Composite Light

Cracking color rendering and sensitive response

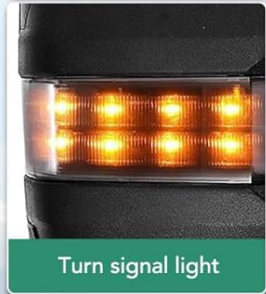


Image 3: Detailed view of the composite lighting features, including the arrow turn signal, standard turn signal, backup light, and running light.

Manual Folding

Avoid shocks with flexible width adjustment

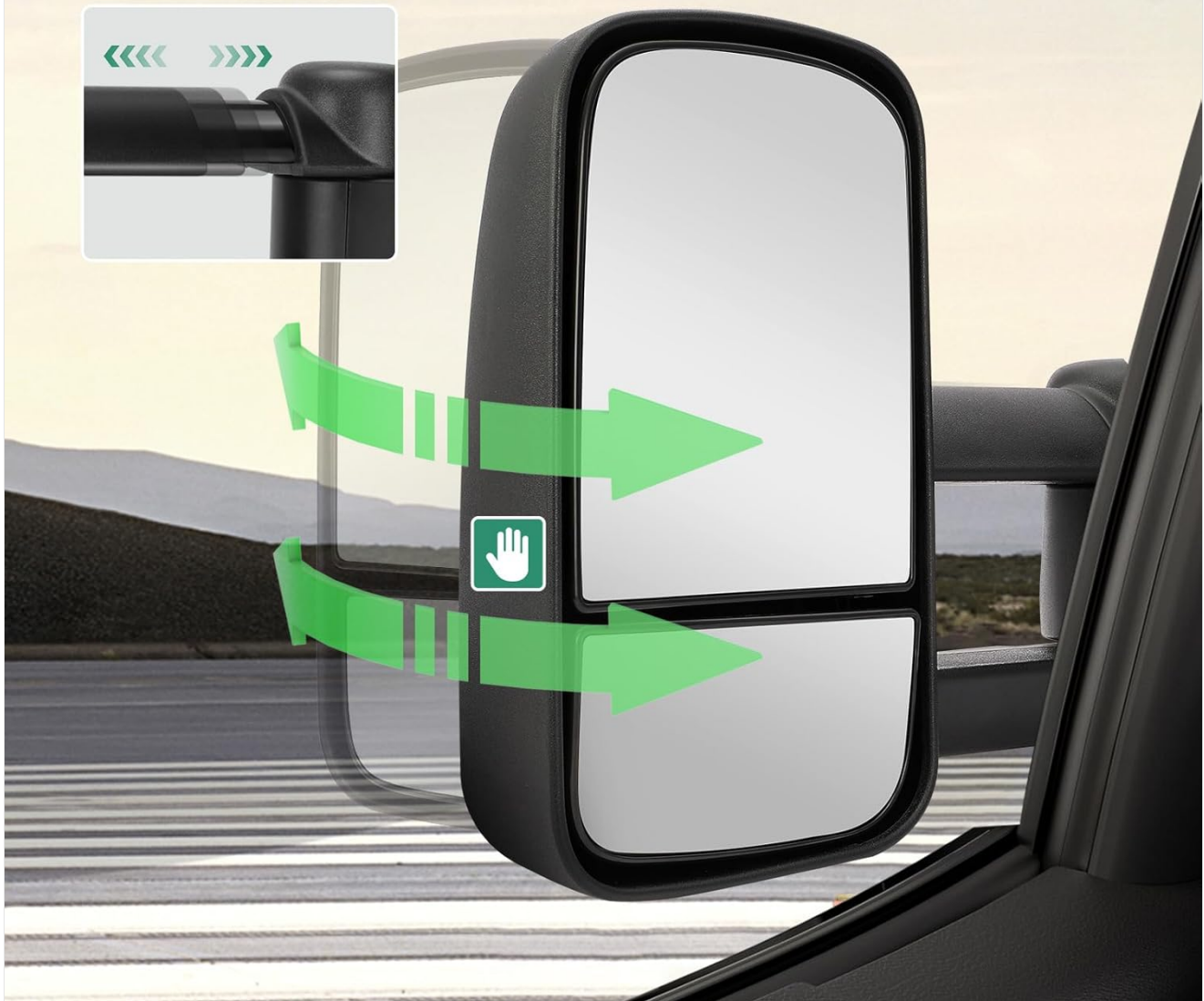


Image 4: Demonstration of the manual folding capability, allowing for flexible width adjustment to avoid impacts.

4. Installation Instructions

The installation process for these towing mirrors is designed to be plug-and-play for compatible vehicles. However, if you are uncertain or lack experience, it is highly recommended to seek assistance from a qualified technician.

General Installation Steps:

1. **Prepare the Vehicle:** Ensure the vehicle is turned off and the battery is disconnected to prevent electrical issues.
2. **Access Door Panel:** Carefully remove the interior door panel to access the existing mirror's mounting bolts and wiring harness.
3. **Disconnect Old Mirror:** Unplug the wiring harness from the original mirror and unbolt it from the door frame.
4. **Mount New Mirror:** Position the new YHTAUTO towing mirror and secure it with the appropriate bolts.

5. **Connect Wiring:** Plug the new mirror's wiring harness into the vehicle's existing connector. Ensure all connections are secure.
6. **Test Functions:** Before reassembling the door panel, reconnect the battery and test all mirror functions (power adjustment, heating, turn signals, backup lights, blind spot detection).
7. **Reassemble:** Once all functions are verified, reattach the door panel and any other components removed during installation.

Steps for Installing Mirrors



Image 5: Visual guide illustrating the general steps for mirror installation, including accessing the wiring and securing the new mirror.

Attention: Please take proper precautions and pay particular attention to all cautions and warnings in the user manual for your vehicle before beginning the installation. Periodically checking the condition of the parts and keeping them in top condition is also highly recommended.

5. Wiring Diagram and Function Description

Understanding the wiring is crucial for correct installation and troubleshooting. The mirrors utilize a multi-pin connector for various functions.

5.1 Pin-to-Wire Wiring Diagram

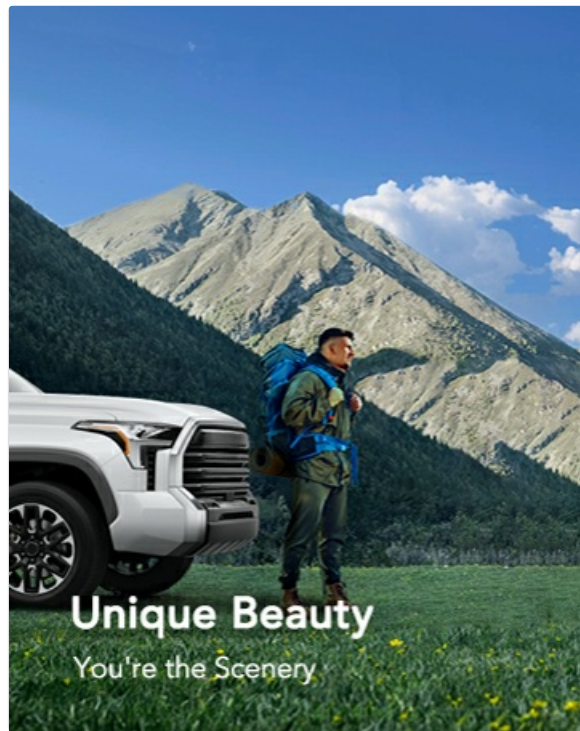


Image 6: Detailed wiring diagram illustrating the connection of individual wires to the motor plug for both left-hand (LH) and right-hand (RH) mirrors.

5.2 Line Control Function Description

The following table outlines the function of each wire:



Image 7: Table detailing the function of each colored wire, indicating positive (+) and negative (-) electrodes and their corresponding actions (e.g., lights, lens movement, heating).

Remark:

- (-): Negative electrode
- (+): Positive electrode

- Black Wires are for the heating function.

Example: To control the housing light to turn on, connect the Red Yellow Wire to the positive electrode and the Black White Wire to the negative electrode.

6. Operation

6.1 Power Adjustment

Use the vehicle's interior mirror control switch to adjust the angle of the main flat mirror. The lower convex mirror requires manual adjustment by gently pressing on the mirror glass.

6.2 Heating Function

Activate the mirror heating function via your vehicle's defroster or dedicated mirror heat switch. This will rapidly clear fog, ice, or condensation from the mirror surface.

6.3 Manual Telescoping and Folding

To extend the mirrors (telescope), grasp the mirror housing firmly and pull it outwards until it locks into the desired extended position. To retract, push the mirror housing inwards. To fold the mirrors, gently push the mirror assembly towards the vehicle body until it folds flat.

6.4 Lighting Functions (Turn Signals, Backup, Running Lights)

These lights operate in conjunction with your vehicle's electrical system. The turn signals (arrow and rear) will activate when your vehicle's turn signals are engaged. Backup lights illuminate when the vehicle is in reverse. Running lights activate with your vehicle's headlights or daytime running lights.

6.5 Blind Spot Detection (BSD)

If your vehicle is equipped with a factory blind spot detection system, the integrated BSD indicator in the mirror will alert you to vehicles in your blind spot. This system relies on your vehicle's existing sensors and wiring.



Image 8: Visualizing blind spot reduction, showing how the extended mirrors provide a wider field of view, especially when towing.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your towing mirrors.

- **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 components, or wiring issues. Ensure the mounting bolts are secure.
- **Lubrication:** If manual folding or telescoping mechanisms become stiff, a small amount of silicone-based lubricant can be applied to the moving parts.

8. Troubleshooting

If you encounter issues with your YHTAUTO towing mirrors, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Mirror functions (power adjust, heat, lights) are inoperable.	Incorrect wiring, blown fuse, vehicle not equipped with necessary features.	Verify wiring connections using the diagram. Check vehicle fuses. Confirm vehicle originally supported these features.
Blind Spot Detection (BSD) indicator is always on or flashing, or a malfunction warning appears.	Incompatibility with vehicle's BSD system, wiring issue, sensor malfunction.	Ensure your vehicle was factory-equipped with BSD. Check wiring for the BSD feature. Consult a professional for system diagnosis.
Running lights or turn signals on the mirror do not function correctly (e.g., only come on briefly).	Wiring issue, insufficient power, vehicle's electrical system incompatibility.	Review wiring connections for the specific lights. Consult a qualified auto electrician to diagnose power supply or system compatibility.
Lower convex mirror detaches or becomes loose.	Adhesive failure, improper installation, manufacturing defect.	Attempt to re-secure with strong automotive-grade adhesive. If persistent, contact customer support for replacement.
Mirror vibrates excessively during driving.	Loose mounting bolts, internal component issue.	Check and tighten all mounting bolts. If vibration persists, contact customer support.

If these troubleshooting steps do not resolve the issue, please contact YHTAUTO customer support for further assistance.

9. Specifications

Detailed technical specifications for the YHTAUTO Towing Mirrors:

Feature	Description
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Feature	Description
Model Number	YHTMI0020
Auto Part Position	Front Left, Front Right
Material	Acrylonitrile Butadiene Styrene (ABS), Glass
Color	Chrome (as per current variant)
Mounting Type	Door Mount
Operation Mode	Power (for main mirror adjustment)
Lens Curvature	Flat (main mirror), Convex (lower mirror)
Special Features	Adjustable, Extendable, Foldable, Heated, Blind Spot Detection, Dual Lens, Manual Telescoping and Folding, Arrow Turn Signal Lights, Turn Signal, Backup and Running Lights
Item Weight	10.48 Kilograms (approx. 23.1 lbs)
Included Components	Driver Side Towing Mirror, Passenger Side Towing Mirror

Compatible with Toyota Models:
For 2007-2021 Tundra
For 2008-2017 Sequoia

Product Dimensions

*There is a slight size error, for reference only

Image 9: Product dimensions for reference, showing height, width (folded and extended), and depth (folded and extended).

10. Warranty and Support

YHTAUTO is committed to providing high-quality products. For specific warranty information regarding your towing mirrors, please refer to the documentation included with your purchase or visit the official YHTAUTO website. If you have any questions, require technical assistance, or need to report an issue, please contact YHTAUTO customer

support through their official channels. Dedicated service is available to assist you.