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Master Tailgaters 28442-4GA1B, 28442-4GA0B

Master Tailgaters Replacement Backup Camera

For Infiniti Q50 (2014-2019) & Q50 Hybrid (2014-2018)

Model: OE Part # 28442-4GA1B, 28442-4GA0B

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Master Tailgaters Replacement Backup Camera. This camera is designed to be a direct replacement for specific Infiniti Q50 models, ensuring seamless integration and functionality.



Image: The Master Tailgaters Replacement Backup Camera.

Compatibility

This replacement backup camera is compatible with the following vehicle models:

- Infiniti Q50 without Around View Monitor (AVM) systems, model years 2014-2019.
- Infiniti Q50 Hybrid without Around View Monitor (AVM) systems, model years 2014-2018.

Important: Before purchasing and installation, it is crucial to verify that your vehicle's original equipment (OE) part number precisely matches one of the following:

28442-4GA1B (284424GA1B)

28442-4GA0B (284424GA0B)

Relying solely on year and model may not guarantee a correct match. Consult your vehicle's parts department or original camera for the exact part number.



Consult Parts Department



Verify Part Number

Product Features

The Master Tailgaters Replacement Backup Camera offers enhanced visibility and durability:

- **Wide-Angle View:** Provides a broad field of vision with up to 168° diagonal, 100° vertical, and 136° horizontal angles for comprehensive rear coverage.
- **Low Light Performance:** Designed to operate effectively in low light conditions, down to 0.1 lux.
- **High Resolution:** Delivers clear images with up to 800 TV lines (TVL).
- **Durable Construction:** Waterproof to IP69K standard and capable of operating in temperatures ranging from -104°F to 220°F (-40°C to 104°C).
- **Quality Components:** Features a Japanese Nidec Lens for precision optics and an OnSemi USA Chip for premium imaging.
- **Plug and Play Installation:** Connects directly into the existing OEM video harness, requiring no additional programming.



Wide-Angle View & Factory-Fit



USA Chip & Japanese Lens

Setup and Installation

The Master Tailgaters Replacement Backup Camera is designed for a direct "Plug and Play" installation into your vehicle's existing OEM video harness. No special programming is typically required.

Installation Steps:

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected to prevent electrical issues during installation.
2. **Access Original Camera:** Locate and carefully remove the original backup camera from its mounting position. This typically involves accessing the area around the trunk lid or license plate light housing. Refer to your vehicle's service manual for specific removal instructions.
3. **Disconnect Wiring:** Disconnect the wiring harness from the original camera.
4. **Connect New Camera:** Connect the Master Tailgaters replacement camera to the vehicle's existing OEM video harness. Ensure the connection is secure.
5. **Mount New Camera:** Install the new camera into the original mounting location. Ensure it is securely fastened and properly oriented.
6. **Reconnect Battery:** Reconnect the vehicle's battery.
7. **Test Functionality:** Turn on the vehicle's ignition and engage reverse gear to test the camera's functionality. Verify that the image appears clearly on your vehicle's display.

If you encounter any difficulties, it is recommended to consult a professional automotive technician.



Image: The camera's plug-and-play connector.

Operating Instructions

The Master Tailgaters Replacement Backup Camera operates automatically in conjunction with your vehicle's reverse gear system.

1. **Engage Reverse:** Shift your vehicle's transmission into reverse gear (R).
2. **Monitor Display:** The camera's video feed will automatically appear on your vehicle's compatible display screen.
3. **Utilize for Parking/Reversing:** Use the displayed image to assist with parking maneuvers and reversing, observing obstacles and surroundings behind the vehicle.
4. **Disengage Reverse:** Shifting out of reverse gear will typically switch the display back to its previous function.

Note: The backup camera is an aid and should not replace direct observation. Always check your surroundings visually before and during reversing.

Maintenance

To ensure optimal performance and longevity of your backup camera, follow these simple maintenance guidelines:

- **Keep Lens Clean:** Regularly clean the camera lens with a soft, damp cloth to remove dirt, dust, and water spots. Avoid abrasive cleaners or materials that could scratch the lens.
- **Inspect Wiring:** Periodically check the camera's wiring and connections for any signs of wear, damage, or corrosion. Ensure all connections remain secure.
- **Avoid High-Pressure Washing:** While the camera is waterproof, direct high-pressure water sprays at close range should be avoided, as this could potentially damage the seal over time.
- **Temperature Extremes:** The camera is designed for a wide temperature range, but prolonged exposure to extreme heat or cold when the vehicle is not in use can still affect electronic components.

Troubleshooting

If you experience issues with your Master Tailgaters Replacement Backup Camera, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
No image on display when in reverse.	• Loose or disconnected wiring. • Incorrect camera installation. • Vehicle's display settings. • Faulty camera or vehicle system.	• Check all connections to ensure they are secure. • Verify the camera is correctly installed and oriented. • Consult your vehicle's manual for display settings related to the backup camera. • If issues persist, contact customer support or a professional technician.
Image is blurry or distorted.	• Dirty camera lens. • Moisture inside the lens. • Damaged camera lens.	• Clean the camera lens with a soft, damp cloth. • Allow time for any condensation to dissipate. If moisture persists, the seal may be compromised. • If the lens is physically damaged, the camera may need replacement.
Image flickers or cuts out intermittently.	• Loose wiring connection. • Electrical interference.	• Check and secure all wiring connections. • Ensure wiring is not routed near high-voltage cables or other sources of electrical interference.

For further assistance, please refer to the Support section.

Specifications

Brand	Master Tailgaters

Compatible Devices	Vehicle Monitor
Installation Type	Surface Mount
Voltage	12 Volts
Optical Sensor Technology	CMOS
Optical Sensor Size	1/4 inch
Lens Type	Wide Angle (Japanese Nidec Lens)
Real Angle of View	170 Degrees (Diagonal up to 168°, Vertical 100°, Horizontal 136°)
Video Resolution	Up to 800 TVL
Low Light Performance	0.1 Lux
Waterproof Rating	IP69K
Operating Temperature	-104°F to 220°F (-40°C to 104°C)
Chipset	OnSemi USA Chip

Warranty Information

The Master Tailgaters Replacement Backup Camera is backed by a**1-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
For specific details regarding warranty coverage and claims, please contact Master Tailgaters customer support.



Image: 1-Year Warranty Badge.

Support and Contact

For any questions, technical assistance, or warranty inquiries, please contact Master Tailgaters customer support. We offer local in-house support to assist you.
Please visit the official Master Tailgaters website or refer to your product packaging for the most current contact information.

Contact Customer Support

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