

DNA MOTORING 3BL-FM05-LED-BK

DNA MOTORING 3BL-FM05-LED-BK LED Third Brake Light Manual

Compatible with 2005-2009 Ford Mustang

1. PRODUCT OVERVIEW

This manual provides instructions for the installation, operation, and maintenance of the DNA MOTORING 3BL-FM05-LED-BK LED High Mount 3rd Third Brake Light. This product is designed as a direct replacement for the stock unit in 2005-2009 Ford Mustang vehicles.

The LED third brake light features bright Light Emitting Diodes (LEDs) that illuminate significantly brighter than standard light bulbs. It includes an integrated cargo light function, providing white light for the truck bed area. The unit is constructed with a durable polycarbonate lens and a free-form reflector.

Key Features:

- LED Light Bar Styling for enhanced vehicle appearance.
- Direct bolt-on OE fitment or replacement.
- Utilizes existing bolt holes for installation.
- Super bright LEDs compared to OEM halogen lights.
- Durable polycarbonate lens with free-form reflector.
- Waterproof design.



Image 1.1: DNA MOTORING 3BL-FM05-LED-BK Black Housing LED Third Brake Light.

2. SAFETY INFORMATION

Please read and understand all safety instructions before attempting installation or operation of this product. Failure to follow these instructions may result in property damage, injury, or improper product function.

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to the vehicle's electrical system.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Professional installation is highly recommended, especially if you are unfamiliar with automotive electrical systems.
- Avoid using electronic tools for installation, as this may increase the chance of cracking the product. Hand tools are recommended.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package. If any components are missing or damaged, contact customer support immediately.

- 1 x DNA MOTORING LED Third Brake Light Assembly (Model: 3BL-FM05-LED-BK)

4. SPECIFICATIONS

Feature	Specification
Brand	DNA MOTORING
Model Number	3BL-FM05-LED-BK
Color	Black Housing
Light Source Type	LED
Vehicle Service Type	Car (Compatible with 2005-2009 Ford Mustang)
Special Feature	Waterproof
Voltage	12 volts
Auto Part Position	Rear
Lens Material	Polycarbonate
OEM Equivalent Part Number	6R3Z13A613A
Item Dimensions	12 x 2 x 3 inches (Approximate)

5. INSTALLATION INSTRUCTIONS

This LED third brake light is designed for "Plug-n-Play" operation, meaning it is a direct bolt-on replacement for the original equipment (OE) unit. It uses existing bolt holes for installation. Professional installation is highly recommended.

5.1 Tools Required (Not Included)

- Basic hand tools (e.g., screwdriver, socket wrench set)
- Wire strippers/crimpers (if modifications are needed for cargo light)
- Electrical tape or heat shrink tubing (if modifications are needed)

5.2 General Installation Steps

- 1. Prepare Vehicle:** Park the vehicle on a level surface and engage the parking brake. Disconnect the negative terminal of the vehicle's battery to prevent electrical shock or damage to the vehicle's electrical system.
- 2. Access Original Brake Light:** Locate the original third brake light assembly. Depending on your vehicle model, this may involve removing interior trim panels or accessing from the exterior. Refer to your vehicle's service manual for specific removal procedures.
- 3. Remove Original Light:** Carefully unbolt or unclip the original third brake light. Disconnect the electrical connector from the original unit.
- 4. Inspect Wiring:** The new LED third brake light may have three color wires for the cargo light function, depending on your factory wiring harness.

- **Red:** Brake light 12V
- **White:** Cargo light 12V
- **Black:** Ground



Image 5.1: Wiring diagram showing connections for brake and cargo lights.

5. **Connect New Light:** Connect the electrical connector from the vehicle's harness to the new DNA MOTORING LED third brake light. Ensure a secure connection.
6. **Install New Light:** Position the new LED third brake light into the opening. Secure it using the existing bolt holes. Apply firm, even pressure to ensure it seats correctly. *Note: Avoid excessive force or electronic tools during installation to prevent damage to the product.*
7. **Test Functionality:** Reconnect the vehicle's battery. Test the brake light function by pressing the brake pedal. Test the cargo light function (if applicable) by activating the appropriate switch.
8. **Final Assembly:** Reinstall any removed trim panels or covers.

5.3 Cargo Light Wiring Modifications (If Applicable)

If your vehicle is not equipped with a cargo light but you wish to install this feature, or if you experience the cargo light staying on constantly, two modifications may be performed:

- **Disable Cargo Light Function:** This can be done by cutting the white 12V cargo light power wire. If this method is chosen, it is recommended to cover the wire end with heat shrink tubing, wire nuts, or electrical tape to prevent short circuits.
- **Add a Switch and Run a 12V Power Wire:** Add a switch and run a new 12V power wire from your dashboard to the LED brake light. This will also require cutting the white 12V cargo light power wire. Ensure to cover the plug side of the LED wire to prevent electrical issues.



Image 5.2: Rear view of the LED third brake light, highlighting the electrical connector.



Image 5.3: The LED third brake light installed on a Ford Mustang.

6. OPERATING INSTRUCTIONS

The DNA MOTORING LED Third Brake Light operates automatically with your vehicle's braking system and, if wired, with the cargo light function.

- **Brake Light Function:** When the brake pedal is pressed, the red LEDs in the third brake light will illuminate brightly, signaling braking to following vehicles.
- **Cargo Light Function:** If the cargo light wire is connected and enabled, the white LEDs will illuminate when the vehicle's cargo light switch is activated, providing illumination for the rear cargo area.



Image 6.1: Illuminated red LEDs of the third brake light.



Image 6.2: Example of cargo light illumination (actual appearance may vary).

7. MAINTENANCE

The DNA MOTORING LED Third Brake Light requires minimal maintenance due to its durable construction and LED technology.

- **Cleaning:** Clean the lens periodically with a soft cloth and mild automotive cleaner. Avoid abrasive cleaners or harsh chemicals that could damage the polycarbonate lens.
- **Inspection:** Periodically check the light for any signs of damage, loose connections, or moisture intrusion. Ensure the mounting remains secure.
- **No User-Serviceable Parts:** The LED unit is sealed and contains no user-serviceable parts. Do not attempt to disassemble the light assembly.

8. TROUBLESHOOTING

If you encounter issues with your LED third brake light, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not illuminate.	• Loose or disconnected wiring. • Blown fuse. • Faulty unit.	• Check all electrical connections for security. • Inspect vehicle's fuse box for a blown brake light fuse and replace if necessary. • If connections and fuse are good, contact customer support.
Light stays dimly lit when vehicle is off.	• Residual voltage in vehicle's electrical system (common with LED upgrades). • Improper cargo light wiring.	• This is often a minor residual current issue and may not drain the battery. • Consider installing an inline resistor (not included) if the dim glow is problematic. • Review Section 5.3 for cargo light wiring modifications if applicable. • Ensure the connector is firmly plugged in; sometimes unplugging and replugging can resolve intermittent issues.
Cargo light does not work.	• Cargo light wire not connected or improperly connected. • Vehicle not originally equipped with cargo light function.	• Verify the white cargo light wire is correctly connected to a 12V source. • Refer to Section 5.3 for options to enable or modify cargo light wiring.

9. WARRANTY AND SUPPORT

For warranty information regarding this product, please contact the seller directly. Warranty terms and conditions may vary.

For technical support or further assistance, please refer to the contact information provided by your retailer or the DNA MOTORING official website.



Image 9.1: DNA MOTORING Brand Logo.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question