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## NMD DB600D

# NMD Auto Light Sensor System User Manual

Model: DB600D

## PRODUCT OVERVIEW

The NMD Autolight system is designed to automatically control your vehicle's lighting system. It switches lights on as it gets dark and off when it gets light, eliminating the need for manual operation. This system is safe, easy to install, and does not interfere with the vehicle's existing electrical system. It is universally compatible with all 12V vehicles. Key features include automatic light control based on ambient light, adjustable light sensor sensitivity, handbrake integration, and a manual ON/OFF switch on the light sensor. It supports vehicles with both negative and positive headlight systems.

## SAFETY PRECAUTIONS

- This unit is designed for vehicles with 12V DC power supply only.
- It is highly recommended to have this unit installed by a professional auto technician to ensure proper functionality and safety.
- When extending cables, always use the same type and gauge of cable to maintain electrical integrity.
- Always perform a thorough test after completing the installation to verify correct operation.
- The sensitivity of the light sensor can be adjusted to suit different environmental conditions and user preferences.

## TECHNICAL SPECIFICATIONS

Specification	Value
Rated Voltage	12V $\pm$ 4V
Max. Rated Current	<25A
Operation Mode	ON-OFF
Operating Voltage	12 Volts
Current Rating	25 Amps

Contact Type	Normally Open
Connector Type	Cable With Screw Terminals
Mounting Type	Panel Mount
Actuator Type	Push Button
International Protection Rating	IP65
Color	Black
Item Weight	10.6 ounces
Model Number	DB600D

## PRODUCT COMPONENTS





Image: A closer view of the NMD Autolight system components, showing the control module, wiring, and light sensor.



Image: The main control unit of the NMD Autolight system, displaying its various connection ports and the "sensitivity" adjustment.



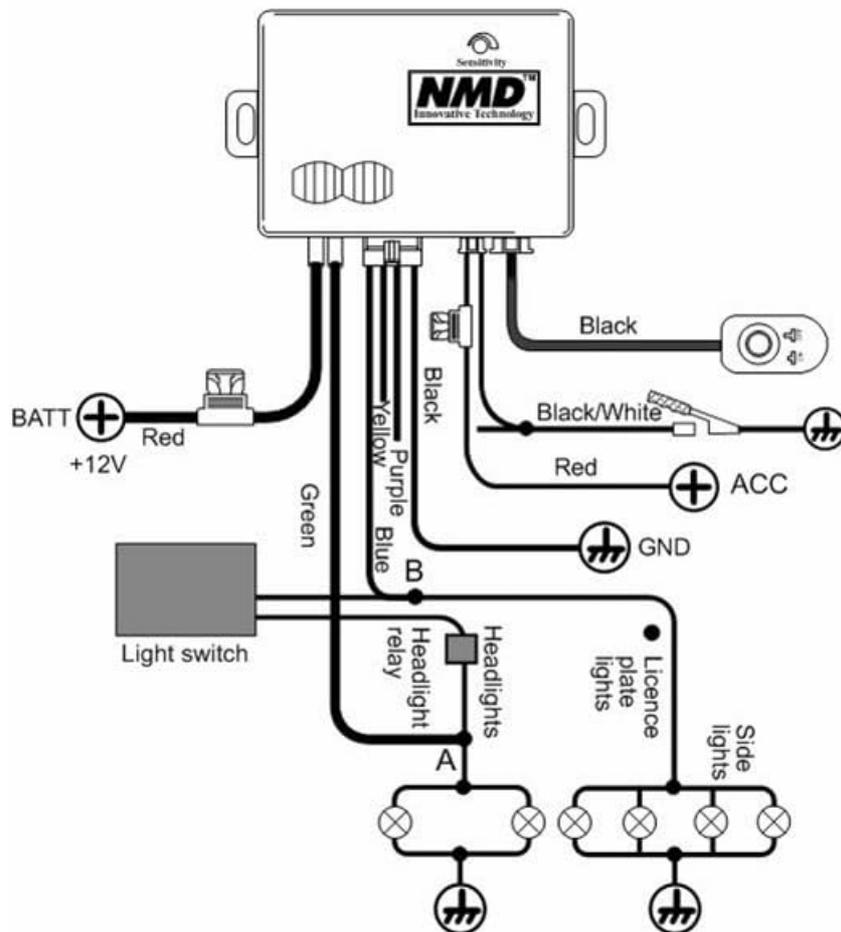
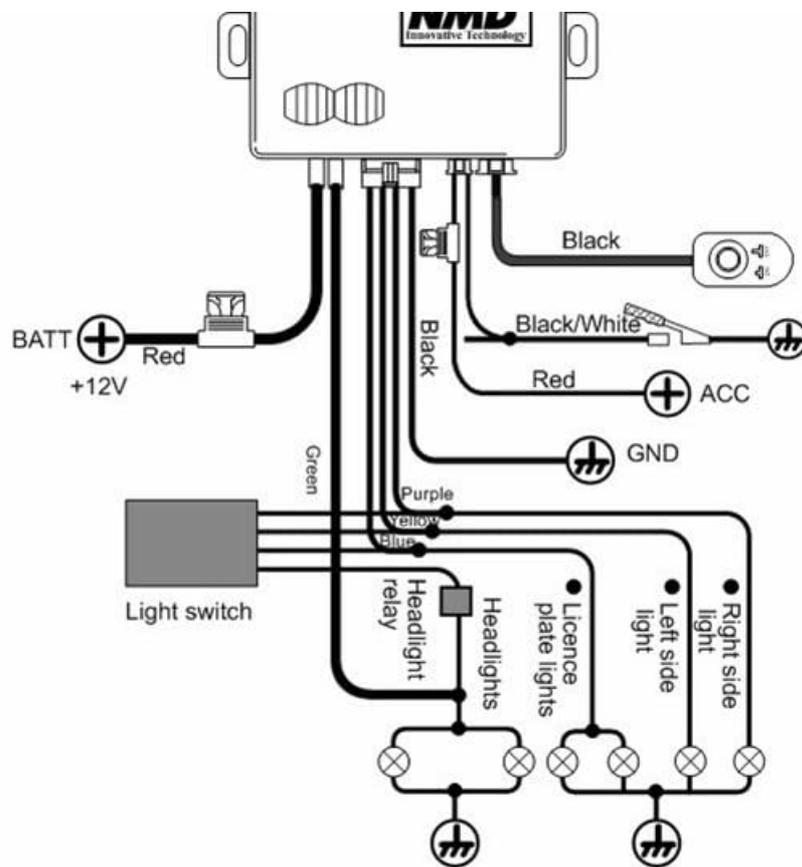
Image: The light sensor component, showing its integrated ON/OFF push button switch on one side and the adhesive backing for mounting on the other, revealing the light-sensing element.

## INSTALLATION GUIDE

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Proper installation is crucial for the optimal performance and safety of the NMD Autolight system. It is strongly recommended that installation be performed by a qualified automotive technician.





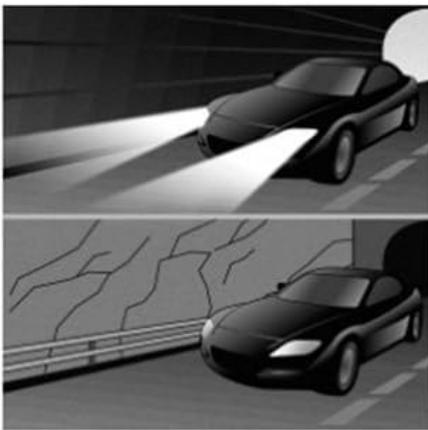
Insulate the yellow and purple wires if they are not connected

Image: A visual step-by-step guide illustrating the installation process. This includes removing trim, connecting wires, installing the ECU, fixing the light sensor, connecting the handbrake wire, performing a function test, and refitting trim.

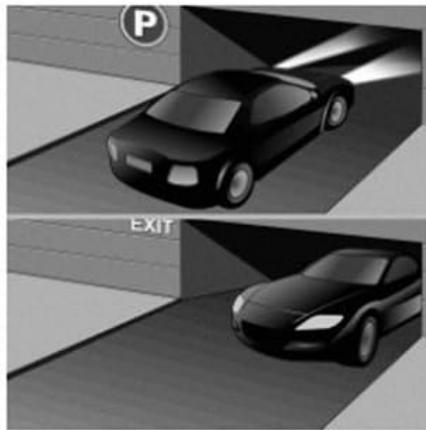
1. **Remove Trim:** Carefully remove the trim from around the light switch area in your vehicle.
2. **Connect Wires:** Connect all necessary wires as per the provided wiring diagram. Ensure all connections are secure.
3. **Install ECU:** Connect the main control unit (ECU) and fasten it securely in a suitable location.
4. **Install Light Sensor:** Fix the light sensor to the windscreen. If the handbrake wire is connected, the headlights will switch off and side lights will remain on when the handbrake is applied.
5. **Connect Handbrake Wire:** Connect the Black/White wire to the handbrake wire.
6. **Function Test:** After installation is complete, perform a comprehensive test to ensure all functions operate correctly. The sensitivity of the light sensor can be adjusted during this step.
7. **Refit Trim:** Once satisfied with the installation and testing, refit all removed trim pieces.

## WIRING DIAGRAMS

Refer to the following diagrams for correct wiring connections based on your vehicle's headlight system.



Turn lights on/off automatically when driving in or out of tunnel



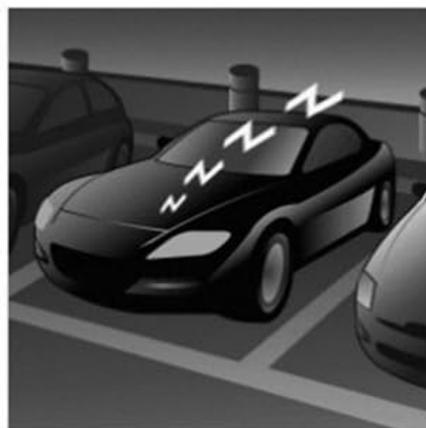
Turn lights on/off automatically when driving in or out of garage



Turn lights on automatically at night



Turn lights on automatically in dark



Turn lights off automatically when ignition is off

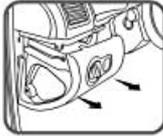


Perfect performance in all conditions

Image: Wiring diagram for vehicles with negative headlight systems. This diagram shows connections for power, ground, ACC, and various lighting circuits including headlights, license plate lights, dash lights, and side lights. Note: Insulate yellow and purple wires if not connected.

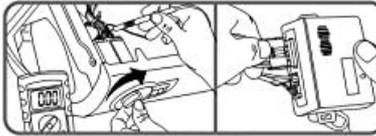
### Step by step installation guide

#### 1. Remove trim



Remove trim from around the light switch

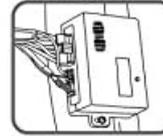
#### 2. Connect wires



Connect all wires as per wiring diagram

Connect to ECU

#### 3. Install ECU



Fasten the ECU

#### 4. Install the light sensor



Fix the light sensor to the windscreen

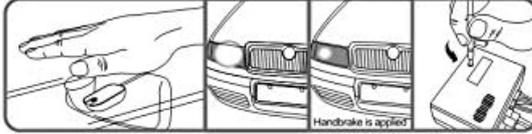
When the handbrake wire is connected, the headlights will switch off and the side lights will remain on after the handbrake is applied

#### 5. Connect handbrake wire



Connect the Black/White wire to handbrake wire

#### 6. Function test



Perform the test when installation is complete

Handbrake is applied

The sensitivity of the light sensor can be adjusted

#### 7. Refit trim



After completion, refit trim

Image: Wiring diagram for vehicles with positive headlight systems. This diagram illustrates connections for power, ground, ACC, and various lighting circuits, including headlight relays and side lights. Note: Insulate yellow and purple wires if not connected.

## OPERATION

The NMD Autolight system operates by sensing ambient light conditions to automatically control your vehicle's headlights and parking lights.

- **Automatic ON/OFF:** The system will automatically turn your vehicle's lights ON when it detects low light conditions (e.g., at dusk, in tunnels, or in garages) and turn them OFF when sufficient light is detected.
- **Adjustable Sensitivity:** The sensitivity of the light sensor can be adjusted to fine-tune when the lights activate or deactivate. This allows customization based on personal preference and typical driving environments.
- **Manual Override:** A push-button switch located on the back of the light sensor allows you to manually turn the Autolight system ON or OFF, providing full control when needed.
- **Handbrake Integration:** If the handbrake wire is connected during installation, the system is designed to switch off the headlights while the handbrake is engaged, keeping only the side lights on.

## Negative wiring

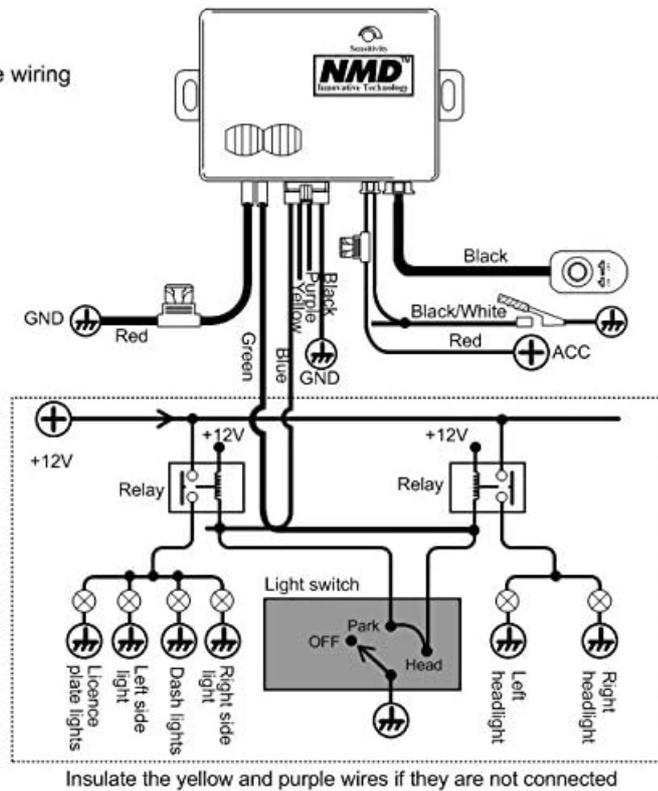


Image: A series of diagrams visually explaining the automatic functions of the NMD Autolight system, including turning lights on/off when entering/exiting tunnels or garages, automatic activation at night or in dark conditions, automatic deactivation when ignition is off, and overall consistent performance.

## MAINTENANCE

The NMD Autolight system is designed for minimal maintenance. To ensure continued optimal performance:

- **Keep Sensor Clean:** Periodically clean the light sensor with a soft, dry cloth to ensure it is free from dust, dirt, or obstructions that could affect its sensitivity.
- **Inspect Wiring:** Occasionally inspect visible wiring for any signs of wear, damage, or loose connections. Address any issues promptly.
- **Professional Check-up:** If you experience any unexpected behavior or issues, consult a professional auto technician for diagnosis and repair.

## TROUBLESHOOTING

If you encounter issues with your NMD Autolight system, consider the following common troubleshooting steps:

- **Lights Not Turning On/Off Automatically:**
  - Check the light sensor for obstructions or dirt.
  - Verify the light sensor's sensitivity setting. Adjust if necessary.
  - Ensure the manual ON/OFF switch on the light sensor is in the ON position.
  - Inspect all wiring connections for looseness or corrosion.
- **System Not Responding:**
  - Check the vehicle's 12V DC power supply to the unit.
  - Ensure all fuses related to the lighting system and the Autolight unit are intact.

- **Interference with Vehicle Electrical System:**

- The system is designed not to interfere. If interference occurs, re-check installation wiring for any incorrect connections or shorts. Consult a professional.

For persistent issues, it is advisable to seek assistance from a certified automotive electrician or the product manufacturer.

## WARRANTY AND SUPPORT

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For information regarding product warranty, returns, or technical support, please refer to the purchase documentation or contact NMD customer service directly. Ensure you have your product model number (DB600D) and purchase details available when contacting support.

**Manufacturer:** NMD

**Model:** DB600D

**UPC:** 606220084945, 787893783264

