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> Dyno Racing 80MM Tachometer RPM Gauge Instruction Manual

Dyno Racing BX101504

Dyno Racing 80MM Tachometer RPM Gauge Instruction Manual

Model: BX101504

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Dyno Racing 80MM Tachometer RPM Gauge. This high-speed stepper motor gauge features a 0-11000 RPM range, 7-color illumination, a shift light, and peak warning functions. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: Dyno Racing 80MM Tachometer RPM Gauge. The gauge displays RPMs from 0 to 11,000, with a prominent shift light on the left side and control buttons on the right.

2. KEY FEATURES

- **High-Speed Stepper Motor:** The gauge utilizes a high-speed stepper motor for rapid and precise response, ensuring accurate RPM readings for various professional motorsports applications. The 270-degree full sweep is microcomputer-controlled for high precision.
- **LED Illumination:** The gauge dial remains invisible when the ignition is off. Upon ignition, a clear display appears with colored LED illumination. The dial illumination and red needle pointer provide excellent visibility in all conditions.
- **Opening and Closing Modes:** The gauge dial and needle perform an opening and closing sequence when the ignition is turned ON/OFF, adding a dynamic visual effect.
- **Adjustable Color:** Users can select from 7 available backlight colors to match personal preference or vehicle interior lighting.



Image 2.1: The tachometer shown with different backlight colors, demonstrating the 7-color adjustable illumination feature.

- **Dual Warning System (Light and Buzzer):** Two custom RPM warning thresholds can be set. When these RPMs are exceeded, the warning LED will blink or light up, accompanied by an audible buzzer.
- **Exclusive Large-Sized Indicator:** A dedicated large indicator light, illuminating in green or red, enhances warning visibility in addition to the main warning LED on the gauge.
- **Peak Memory Function:** The highest RPM achieved during driving can be recorded and reviewed later.
- **Detachable Switch Unit:** The large switch unit, which includes illumination, can be fixed directly to the gauge or detached for remote placement.
- **Integrated Mounting System:** The gauge is secured using an exclusive mounting band and back case, designed to neatly conceal wiring.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 × 80MM Tachometer Gauge
- 1 × Shift Light
- 1 × Mounting Bracket

- 1 × Meter Cup
- 1 × Installation Manual



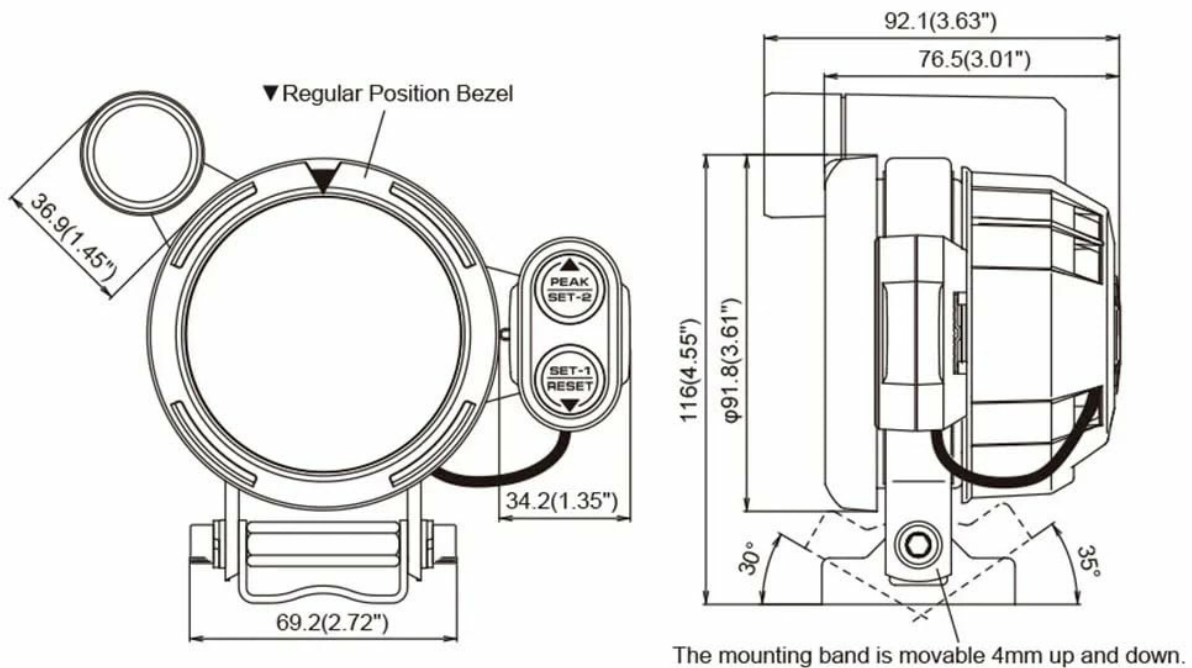
Image 3.1: All components included in the Dyno Racing Tachometer package, laid out on a white surface. This includes the gauge, shift light, mounting hardware, wiring, and instruction manual.

4. SPECIFICATIONS

| Feature | Specification |
|---------------------|--------------------------|
| Model Number | BX101504 |
| Brand | Dyno Racing |
| Gauge Diameter | 80MM |
| RPM Range | 0-11000 RPM |
| Illumination Colors | 7 Colors (Adjustable) |
| Motor Type | High Speed Stepper Motor |

| Feature | Specification |
|--------------------------------|----------------------------|
| Material | Plastic |
| Power Requirement | 12V DC |
| Compatibility | 1-8 cylinder gasoline cars |
| Product Dimensions (L x W x H) | 4.72 x 8.66 x 5.91 inches |
| Item Weight | 559 Grams (1.23 Pounds) |
| UPC | 723990850928 |

Product Dimensions



Note:

1. (IMPORTANT) No Instructions Included. Professional Installation Is Highly Recommended !
2. Please check the size measurement chart carefully before making payment.
3. Please allow 0.5-1 inch difference due to manual measurement.(1 inch=2.54cm)
4. The color of the actual items may slightly different from the listing images due to different computer screen, thanks for your understanding.

Image 4.1: Detailed dimensional drawing of the tachometer, including measurements for the gauge, bezel, and mounting bracket in both inches and millimeters.

5. INSTALLATION

Important Note: Professional installation is highly recommended for this product. Incorrect wiring can lead to damage to the gauge or vehicle electrical system. No detailed wiring instructions are included in this manual

beyond the diagram provided.

5.1. General Fitment

This tachometer is compatible with all 12V, 1-8 cylinder gasoline vehicles.

5.2. Installation Diagram

Refer to the diagram below for the assembly and installation procedure. Ensure all components are securely fastened.



Image 5.1: Exploded view diagram illustrating the assembly of the tachometer components, including the gauge, mounting band, back case, switch unit, indicator, and various fasteners.

5.3. Wiring Overview (Consult a professional for detailed wiring)

The rear of the gauge features a wiring harness. Ensure connections are made correctly to the vehicle's electrical system. The integrated back case is designed to store wires neatly.



Image 5.2: Rear view of the tachometer, displaying the multi-colored wiring harness connected to the unit. This view highlights the connection points for power, ground, and RPM signal.

6. OPERATION

The tachometer features a detachable switch unit with two buttons: "PEAK SET-2" and "SET-1 RESET". These buttons are used for configuration and accessing functions.

6.1. Adjustable Color Selection

To change the backlight color, use the buttons on the detachable switch unit. Specific instructions for cycling through the 7 available colors will be found in the included printed manual or through button press combinations.



Image 6.1: The tachometer illuminated with a blue backlight, showcasing one of the adjustable color options.

6.2. Setting Warning RPMs

The gauge allows for setting two custom RPM warning thresholds. Consult the included manual for the exact procedure to set these values using the "PEAK SET-2" and "SET-1 RESET" buttons. When the set RPM is exceeded, the warning LED will activate, and the buzzer will sound.

6.3. Peak Memory Function

The peak memory function records the maximum RPM reached during operation. To view the stored peak RPM, refer to the specific instructions in the included manual, typically involving a short press or combination of the control buttons.

7. TROUBLESHOOTING

If you encounter issues with your Dyno Racing Tachometer, consider the following general troubleshooting steps:

- **No Power/Display:** Ensure all power connections are secure and correctly wired to a 12V DC source. Check for blown fuses in the vehicle's electrical system.

- **Inaccurate RPM Readings/Jumping Needle:** Verify that the RPM signal wire is correctly connected to the vehicle's ignition system or ECU. Ensure the gauge is set to the correct cylinder count for your engine (1-8 cylinders). Loose or incorrect wiring can cause erratic readings.
- **Warning Light/Buzzer Not Functioning:** Check the warning RPM settings to ensure they are configured correctly. Verify all connections related to the warning system.
- **Illumination Issues:** If the backlight is not functioning or stuck on one color, check power connections and consult the manual for reset procedures or color selection steps.

For persistent issues, it is recommended to consult a professional automotive electrician or contact Dyno Racing customer support.

8. WARRANTY AND SUPPORT

Dyno Racing products are manufactured to high standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Dyno Racing website. For technical support or inquiries, please contact Dyno Racing customer service through their official channels.