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> MAIMEIMI 0-6000 RPM Tachometer Gauge (Model CX8005B) Instruction Manual

MAIMEIMI CX8005B

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For 1-10 Cylinder Diesel and Gasoline Engines

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MAIMEIMI 0-6000 RPM Tachometer Gauge. This 85mm (3-3/8") gauge is designed to accurately display engine RPM and includes an hour meter function. It is compatible with a wide range of vehicles, including cars, trucks, boats, and other marine applications, supporting 1-10 cylinder diesel and gasoline engines.

The gauge features a durable stainless steel construction, curved tempered glass, and an HD screen for excellent readability. It is also IP67 waterproof, dustproof, and anti-fogging, ensuring reliable performance in various environments.

12V 24V Universal

Suitable for 1-10 Cylinder Diesel and Gasoline Engine



Boat



Car



Bus



RV...



Image: MAIMEIMI Tachometer Gauge demonstrating universal compatibility with 12V and 24V systems, suitable for various vehicles including boats, cars, buses, and RVs.

2. PRODUCT FEATURES

- **Diameter:** 3-3/8" (85mm) with a black dial, displaying RPM from 0 to 6000.
- **Engine Compatibility:** Designed for 1-10 cylinder gasoline and diesel engines.
- **Hour Meter:** Integrated hour meter provides an accurate record of engine running time, with a range of 0-99999.9 hours.
- **High Quality Construction:** Made from stainless steel with curved tempered glass for durability.
- **Display:** HD screen ensures excellent readability in various lighting conditions.
- **Environmental Protection:** IP67 waterproof, dustproof, and anti-fogging performance.
- **Backlight:** Features 7 adjustable backlight colors: red, green, blue, white, yellow, cyan, and purple.

FEATURE

Measure The Engine Speed Of Engine - Rotational
Speed Range 0 - 6000 RPM



Image: A detailed view of the MAIMEIMI Tachometer Gauge, highlighting the RPM scale and the integrated digital hour meter.



Image: The MAIMEIMI Tachometer Gauge shown partially submerged in water, illustrating its IP67 waterproof capability.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 1 x MAIMEIMI Tachometer Gauge
- 1 x Wiring Harness
- 1 x Instruction Manual (this document)

IP67 Waterproof

After a strict waterproof test, can work normally in the water



Image: The complete package contents, including the tachometer gauge, wiring harness, and instruction manual.

4. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation of the tachometer gauge:

1. **Prepare the Panel:** Before installation, create a hole with a diameter of 85mm (3-3/8 inches) in your dashboard or panel. Ensure there is sufficient space behind the panel (approximately 55mm backyard depth) for the gauge and wiring.
2. **Insert the Gauge:** Carefully insert the tachometer gauge into the prepared hole.
3. **Secure the Gauge:** Use the provided mounting ring or screws to firmly secure the gauge in place.
4. **Wiring:** Connect the wiring harness according to the diagram in Section 5.



Image: Installation diagram illustrating the process of cutting an 85mm hole in the panel and securing the gauge.

5. WIRING DIAGRAM

Connect the wiring harness as follows:

1. **Black Wire:** Connect to Ground (-)
2. **Red Wire:** Connect to 9-32VDC Power Supply (+)
3. **Blue Wire:** Connect to RPM Signal Input
4. **Yellow Wire:** Connect to Backlight Power (+)
5. **White Wire:** NC (Not Connected)



Image: Wiring diagram indicating the correct connections for the tachometer gauge.

6. SPEED RATIO SETTING

The tachometer requires a speed ratio setting to accurately display RPM based on your engine's cylinder count or outboard poles. This setting is crucial for correct operation.

1. **Enter Setting Mode:** Press and hold the rubber button on the backside of the gauge for more than 3 seconds. The gauge will enter setting mode. If no action is taken for 3 seconds, it will exit setting mode.
2. **Adjust Value:** While in setting mode, each short press of the button will increase the speed ratio value. Press and hold the button to decrease the value. The minimum step value is 0.1, and the adjustable range is 1.0-360.
3. **Save Setting:** Once the desired speed ratio value is displayed, release the button. The tachometer will automatically save your setting after 3 seconds. If the setup is not satisfactory, repeat the process.

Speed Ratio Reference Table:

Use the following table as a general reference. Note that this table provides common values; actual requirements may vary. If your engine cylinder number is not listed or you require further assistance, please contact customer support for a suitable speed ratio value.

Outboard Poles	Speed Ratio	Inboard or Gas Engine Cylinders	Speed Ratio	Diesel Engine Gear Number	Speed Ratio
4	2	4	2	Gear 1	Gear Number
6	3	6	3	Gear 2	Gear Number
8	4	8	4

Outboard Poles	Speed Ratio	Inboard or Gas Engine Cylinders	Speed Ratio	Diesel Engine Gear Number	Speed Ratio
10	5	10	5	Gear 10	Gear Number
12	6	12	6		



Image: Speed ratio setting reference table and instructions for adjusting the gauge.

7. OPERATION

7.1 RPM Display

Once correctly installed and configured with the appropriate speed ratio, the gauge will display the engine's rotational speed in RPM (Revolutions Per Minute) via the needle. The scale ranges from 0 to 6000 RPM.

7.2 Hour Meter

The integrated digital display at the bottom of the gauge functions as an hour meter, recording the total operating time of the engine. This value is stored even when power is off. The hour meter range is 0-99999.9 hours.

7.3 Backlight Adjustment

The tachometer features 7 backlight colors. To change the backlight color, locate the color change button on the backside of the gauge (refer to the diagram in Section 5). Each short press of this button will cycle through the available colors: red, green, blue, white, yellow, cyan, and purple.

7 BACKLIGHT COLORS ADJUSTABLE

One - key switch, adjustable as needed



Work



Unwork



Color
ChangeButton

Image: The tachometer showcasing its 7 adjustable backlight colors and indicating the position of the color change button on the rear.

Your browser does not support the video tag.

Video: Official product video demonstrating the 7-color backlight feature of the MAIMEIMI 6000RPM Tachometer.

8. SPECIFICATIONS

Specification	Detail
Brand	MAIMEIMI
Model Number	CX8005B
Material	Stainless Steel, Tempered Glass
Item Dimensions (L x W x H)	3.8 x 3.5 x 2.2 inches (97mm x 85mm x 56mm)

Specification	Detail
Item Weight	8 ounces
RPM Range	0-6000 RPM
Hour Meter Range	0-99999.9 hours
Backlight Colors	7 (Red, Green, Blue, White, Yellow, Cyan, Purple)
Waterproof Rating	IP67
Operating Voltage	9-32VDC

9. TROUBLESHOOTING

- **Gauge Not Powering On:**

- Check the red wire connection to the 9-32VDC power supply.
- Verify the black wire connection to ground.
- Ensure the power source is active and within the specified voltage range.

- **RPM Reading Incorrect or Stuck:**

- Re-check the blue wire connection to the RPM signal input. Ensure it is securely connected and receiving a signal.
- Verify the speed ratio setting (refer to Section 6). An incorrect speed ratio is a common cause for inaccurate RPM readings. Adjust the speed ratio according to your engine's cylinder count or outboard poles.
- If the gauge is stuck at maximum RPM, it often indicates an incorrect speed ratio setting or an issue with the signal input. Try adjusting the speed ratio.

- **Backlight Not Working:**

- Check the yellow wire connection to the backlight power supply.
- Ensure the color change button on the backside of the gauge is functioning.

- **Hour Meter Not Recording:**

- The hour meter operates when the gauge is powered. If the gauge is on but the hour meter is not advancing, ensure the RPM signal is being received correctly.

10. MAINTENANCE

The MAIMEIMI Tachometer Gauge is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, damp cloth to clean the gauge face and body. Avoid abrasive cleaners or solvents, as these can damage the tempered glass or housing.
- **Connections:** Periodically inspect all wiring connections to ensure they remain secure and free from corrosion. Loose connections can lead to intermittent operation or inaccurate readings.
- **Environmental Protection:** While the gauge is IP67 waterproof, prolonged exposure to extreme conditions or direct high-pressure water jets should be avoided to prevent potential damage.
- **Storage:** If the vehicle or vessel is stored for an extended period, ensure the gauge is kept in a dry, stable environment.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official MAIMEIMI website. Keep your purchase receipt as proof of purchase for any warranty claims.

MAIMEIMI is committed to providing high-quality automotive components. If you encounter any issues not covered in this manual, please do not hesitate to reach out to our customer service team for assistance.

You can find more information about MAIMEIMI products and support at: [MAIMEIMI Store on Amazon](#)

