ELING EL0849

ELING 85mm 0-3000 RPM Tachometer with LCD Hour Meter User Manual

Model: EL0849

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ELING 85mm 0-3000 RPM Tachometer with LCD Hour Meter. Please read these instructions carefully before use to ensure proper function and longevity of the device. This tachometer is designed for use in various applications, including tractors, marine vessels, and other vehicles requiring RPM and hour tracking.

Product Overview

Key Features:

- 85mm (3 3/8 inch) diameter for standard dashboard openings.
- RPM range: 0-3000 RPM.
- Integrated LCD hour meter: 0.0-99999.9 hours.
- 7-color adjustable backlight (Red, Green, Blue, White, Yellow, Cyan, Purple, and automatic cycle).
- Adjustable speed ratio from 1.0 to 360.
- Signal input: Pulse.

Package Contents:

- 1x Tachometer
- 1x Multi-plug socket (wiring harness)
- 1x Installation instruction manual



Figure 1: ELING 85mm 0-3000 RPM Tachometer (Black dial, stainless steel bezel).



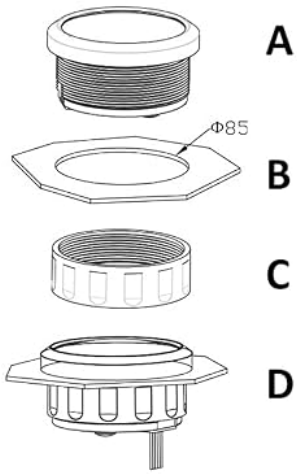
Figure 2: Tachometer with included wiring harness and instruction manual.

Installation Instructions

1. Panel Cutout:

Before installation, create a hole of 85mm (3 3/8 inches) in the dashboard. Ensure there is a minimum clearance of 55mm (2 3/16 inches) behind the panel for the meter to fit properly.

Owner's Manual



Picture B: Before installation, firstly, to open a hole Φ85mm(3 3/8") of the panel ,make sure there is a space with(55mm backyard of panel)as well.

如图B，在仪表安装板上开一个直径为85mm的孔，并确保仪表板后面至少要有55mm的空间

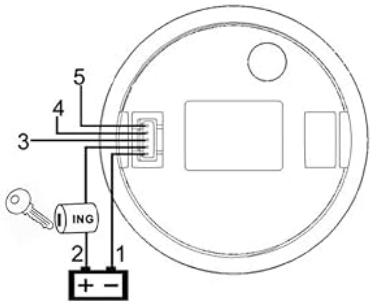
Picture D: Put the gauge in the hole and screw down.

如图D，将仪表装入开好的孔中，调整好位置后将后盖圈拧紧.

柴油机 Diesel engine	
飞轮齿数 Gear number	速比 Speed ratio
飞轮齿数 = 速比值 Gear number=Speed ratio	

舷外机 Outboard	
极数 poles	速比 Speed ratio
4	2
6	3
8	4
10	5
12	6

汽油发动机 Inboard or Gas engine		
汽缸数 cylinder	冲程 cycle	速比 Speed ratio
4	4	2
6	4	3
8	4	4
10	4	5
12	4	6



1. 按住仪表背后的橡胶按钮 3 秒钟，进入设置模式。如果松开按钮大于 3 秒钟，将退出设置模式.
2. 按住按钮，数值一直递增；松开按钮再按住按钮，数值一直递减。按钮按住的时间越长，数值计数越快。计数最小步进值 0.1，可调范围 1.0-360.
3. 调整到符合您的要求速比值后，请松开按钮。3 秒后转速表自动保存您设置的结果。如果设置不符合您的要求，请重新设置.
4. 短按按键一次，改变背光颜色：背光顺序红色（默认）→绿→蓝→白→黄→青→紫→（自动）。自动：每 1 分钟自动切换一次背光颜色，依照上面顺序循环切换。

Connection

1 Black: Ground(-)
2 Red: 9-32VDC
3 Blue: RPM Signal
4 Yellow: Backlight
5 White: NC

接线方式

1 黑色线：电源负极(-)
2 红色线：9-32VDC
3 蓝色线：RPM信号
4 黄色线：背光灯
5 白色线：保留

1. Keep on pressing the rubber button of the backside for 3 seconds, and then enter into setting mode, if you release button more than 3 seconds, it will be out of setting mode.
2. The value will increase when you press the button. When you release the button and then press it again, the value will decrease. The longer you press the button, the quicker the value will count up. The minimum step value is 0.1 and the adjustable range is 1.0~360.
3. When you get the required speed ratio value after adjustment, please release the button. The tachometer automatically saves the result you set after 3 seconds, If the setup doesn't meet your demand, please re-setup.
4. Short press the button to change the backlight color : Backlight changed in sequence: red (default) → green → blue → white → yellow → cyan →Purple → (automatic).Automatic: Automatically switch the backlight color every 1 minute, Cycle switch according to the above sequence.

Figure 3: Excerpt from the owner's manual illustrating panel cutout and wiring.

Once the hole is prepared, insert the gauge and secure it with the provided screws.

2. Wiring Connection:

Connect the wiring harness according to the diagram below. Ensure all connections are secure and correct to prevent damage to the device or vehicle electrical system.

1 Black: Ground (-)

2 Red: 9-32VDC (Power Supply)

3 Blue: RPM Signal

4 Yellow: Backlight

5 White: NC (Not Connected)



Figure 4: Rear view of the tachometer with labeled wiring connections.

Operating Instructions

1. Setting the Speed Ratio (Gear Ratio):

1. To enter setting mode, press and hold the rubber button on the backside of the tachometer for 3 seconds. Releasing the button for more than 3 seconds will exit setting mode.
2. While in setting mode, press the button briefly to increase the value. Release and press again to decrease the value. Holding the button down will change the value more quickly. The minimum step is 0.1, and the adjustable range is 1.0-360.
3. Once the desired speed ratio is set, release the button. The tachometer will automatically save the setting after 3 seconds. If the setting is incorrect, repeat the process.

Refer to the table below for common speed ratio settings based on engine type:

Speed Ratio Reference Table

Engine Type	Poles / Cylinders	Speed Ratio
Outboard (Diesel Engine)	4 Poles	2
	6 Poles	3
	8 Poles	4
	10 Poles	5
	12 Poles	6
Inboard or Gas Engine	4 Cylinders	2
	6 Cylinders	3
	8 Cylinders	4
	10 Cylinders	5
	12 Cylinders	6

2. Adjusting Backlight Color:

To change the backlight color, short press the rubber button on the backside. The backlight will cycle through the following colors:

Red (default) → Green → Blue → White → Yellow → Cyan → Purple → Automatic Cycle

In 'Automatic Cycle' mode, the backlight color will change automatically every 1 minute, following the sequence above.



Figure 5: Tachometer demonstrating different backlight color options.



Figure 6: Tachometer displaying a green backlight.

Maintenance

The ELING tachometer is designed for durability and requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the display clean using a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Regularly check all wiring connections for tightness and corrosion, especially in marine environments.
- Ensure the device is protected from extreme temperatures and direct prolonged exposure to harsh weather conditions if not rated for such use.

Troubleshooting

If you encounter issues with your tachometer, consider the following common troubleshooting steps:

- **No Power/Display:** Check the power (Red wire) and ground (Black wire) connections. Ensure the voltage supply is within the 9-32VDC range.
- **Incorrect RPM Reading:** Verify that the RPM signal wire (Blue wire) is correctly connected to the engine's signal output. Re-check the speed ratio setting as per the operating instructions.
- **Backlight Not Working:** Check the backlight wire (Yellow wire) connection. If the backlight is set to a specific color, try cycling through the colors by short-pressing the button.
- **Intermittent Operation:** Inspect all wiring for loose connections, frayed wires, or signs of corrosion. Ensure the mounting is secure and free from excessive vibration.

If problems persist after performing these checks, please contact ELING customer support for further assistance.

Specifications

Feature	Detail
Manufacturer	ELING
Product Dimensions (L x W x H)	8.5 x 8.5 x 5.5 cm
Weight	400 grams
Model Reference	EL0849
Size	0-3000RPM (85mm)
Color	Black + Stainless Steel
Items in Package	1
Measurement Accuracy	97%
Backlight Colors	7 colors (Red, Green, Blue, White, Yellow, Cyan, Purple)
Hour Meter Range	0.0-99999.9 hours
Speed Ratio Adjustment	1.0 to 360

Warranty and Support

ELING products are manufactured with quality and reliability in mind. For any questions, technical support, or warranty inquiries, please refer to the seller's return policy or contact ELING customer service directly.
You can visit the official ELING brand store for more information and contact options:ELING Brand Store

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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.

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