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- › [Faria](#) /
- › [Faria Chesapeake Black SS 4-inch 6000 RPM Gas Tachometer User Manual](#)

Faria CHESAPEAKE BLACK SS 4" TACHOMETER 6000 RPM GAS

Faria Chesapeake Black SS 4-inch 6000 RPM Gas Tachometer User Manual

Model: CHESAPEAKE BLACK SS 4" TACHOMETER 6000 RPM GAS

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Faria Chesapeake Black SS 4-inch 6000 RPM Gas Tachometer. This electronic tachometer is designed to accurately monitor the engine revolutions per minute (RPM) for gas inboard and inboard/outboard (I/O) marine engines. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Front view of the Faria Chesapeake Black SS 4-inch 6000 RPM Gas Tachometer. The gauge features a black dial with white numerals and a stainless steel bezel.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vessel's battery before performing any electrical work to prevent electrical shock or damage to the system.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits and corrosion.

- Refer to your vessel's engine manual for specific wiring diagrams and pulse per revolution (PPR) settings.
- Do not operate the vessel if the tachometer is not functioning correctly, as this may indicate an underlying engine issue.
- Keep the tachometer free from excessive moisture and direct impact.

3. SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and long-term performance. Follow these steps carefully:

3.1 Mounting the Tachometer

1. Select a suitable location on your dashboard or panel that is visible to the operator and protected from direct spray.
2. Using a 3.375-inch (85mm) hole saw, carefully cut a mounting hole in the chosen location.
3. Insert the tachometer into the mounting hole.
4. Secure the tachometer using the provided mounting bracket and hardware from the rear of the panel. Tighten securely but do not overtighten.

3.2 Electrical Connections

The tachometer requires three primary electrical connections:

- **+12VDC (Ignition):** Connect this terminal to a switched 12-volt DC power source that is active when the engine ignition is on.
- **Ground:** Connect this terminal to a reliable common ground point on your vessel's electrical system.
- **Signal Source:** Connect this terminal to one of the following signal sources, depending on your engine type:
 - Ignition System (e.g., coil negative terminal)
 - Alternator (specific tachometer output terminal)
 - Tach Signal Generator
 - Magnetic Pickup Sender

Ensure all connections are crimped and sealed properly to prevent corrosion, especially in a marine environment.

3.3 Setting Pulses Per Revolution (PPR)

The tachometer features a switch on the back to set the correct pulses per revolution (PPR) for your engine. This setting is critical for accurate RPM readings.

- Consult your engine's service manual or manufacturer's specifications to determine the correct PPR value for your specific engine.
- Locate the small selector switch on the rear of the tachometer.
- Adjust the switch to the position corresponding to your engine's PPR setting. Incorrect settings will result in inaccurate RPM readings.



Figure 2: Illustrative diagram of typical wiring connections and the Pulses Per Revolution (PPR) selector switch located on the rear of the tachometer.

4. OPERATING INSTRUCTIONS

Once properly installed and configured, operating the Faria Chesapeake Black SS Tachometer is straightforward:

1. Ensure all electrical connections are secure and the battery is connected.
2. Turn the vessel's ignition key to the 'ON' or 'ACC' position. The tachometer needle may briefly sweep or settle at zero.
3. Start the engine. As the engine runs, the tachometer needle will indicate the current engine RPM.
4. Monitor the RPM during engine operation to ensure it stays within safe and recommended operating ranges as specified by your engine manufacturer.

5. MAINTENANCE

The Faria Chesapeake Black SS Tachometer is designed for durability and requires minimal maintenance:

- **Cleaning:** Clean the gauge face and bezel periodically with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or lens.
- **Connection Checks:** Annually, or if issues arise, inspect all electrical connections for corrosion or looseness. Ensure they are clean, tight, and properly insulated.
- **Environmental Protection:** While designed for marine use, protecting the gauge from prolonged direct sunlight and extreme weather when not in use can extend its lifespan.

6. TROUBLESHOOTING

If your tachometer is not functioning as expected, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Tachometer does not register RPM (needle stays at zero).	No power, no ground, or no signal.	Check +12VDC power connection (fuse, wiring). Verify ground connection. Inspect signal wire for breaks or loose connections.
Tachometer reads inaccurately (too high or too low).	Incorrect Pulses Per Revolution (PPR) setting.	Verify the PPR switch on the back of the tachometer is set correctly for your engine. Consult engine manual for correct PPR.
Tachometer needle is erratic or jumps.	Loose or corroded connections, electrical interference, faulty signal source.	Inspect all wiring connections for tightness and corrosion. Ensure proper grounding. Check the signal source for consistent output.
Gauge lens is fogged or has condensation.	Moisture ingress.	Ensure the mounting gasket is properly seated and the mounting hardware is tightened. If persistent, the seal may be compromised.

7. SPECIFICATIONS

Feature	Specification
Model	Chesapeake Black SS 4" Tachometer
RPM Range	0 - 6000 RPM

Feature	Specification
Engine Type	Gasoline Inboard & I/O
Gauge Size	4 inches
Mounting Hole Size	3.375 inches (85mm)
Operating Voltage	+12VDC
Signal Sources	Ignition system, Alternator, Tach signal generator, Magnetic pickup sender
Weight	8.82 pounds (approx.)

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Faria Chesapeake Black SS Tachometer, please refer to the documentation included with your purchase or visit the official Faria Marine Instruments website. For technical support, installation assistance, or replacement parts, please contact Faria customer service directly. Have your model number and purchase date available when contacting support.