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**Tiny-Tach TT2A**

# Tiny-Tach TT2A Tach and Hour Meter Instruction Manual

Model: TT2A | Brand: Tiny-Tach

Introduction Features Setup Operation Maintenance Troubleshooting Specifications Warranty Support

## 1. Introduction

The Tiny-Tach TT2A is a versatile tachometer and hour meter designed for gas engines. It provides accurate RPM readings and tracks engine operating hours, making it an essential tool for engine maintenance and performance monitoring. This manual provides instructions for the proper installation, operation, and care of your Tiny-Tach TT2A unit.

## 2. Product Features

The Tiny-Tach TT2A offers a range of features for comprehensive engine monitoring:

- **RPM Reading:** Adjustable from 1 spark per 2 revolutions to 8 sparks per revolution, compatible with most gas engines.
- **RPM Display Range:** Displays RPM from 1 to 19,000 with a 1/2 second update time.
- **Hour Meter:** Records the total actual running time of your engine.
- **Job Timer:** A resettable timer to record specific operational periods.
- **Coaxial Cable:** Includes a 6-foot coaxial cable to transmit signals without electromagnetic interference.
- **Antenna Cable:** Simple attachment; winds around the spark plug wire for RPM sensing.
- **Signal Strength Control:** Adjustable via the antenna wire.
- **Durability:** Water-resistant design.
- **Battery Life:** Equipped with a five-year battery.

## 3. Setup and Installation

Follow these steps to properly install your Tiny-Tach TT2A:

1. **Mounting:** Select a suitable location for the Tiny-Tach unit, ensuring it is secure and visible. The unit can be mounted using screws or industrial-grade adhesive (not included).
2. **Antenna Cable Connection:** Take the antenna cable and carefully wind it around your engine's spark plug wire. The number of wraps can influence signal strength; typically, 5-7 wraps are sufficient. Ensure the wraps are snug and consistent.
3. **Coaxial Cable Routing:** Route the 6-foot coaxial cable from the antenna cable to the Tiny-Tach unit. Ensure the cable is secured and kept away from moving parts or extreme heat sources.
4. **Connecting to Unit:** Connect the coaxial cable to the designated input on the Tiny-Tach TT2A unit.
5. **Engine Type Setting:** The Tiny-Tach TT2A is adjustable for various gas engine types. Refer to the specific instructions included with your unit for setting the correct spark per revolution (e.g., 1 spark per 2 revolutions for 4-stroke engines, 1 spark per revolution for 2-stroke engines). This setting is crucial for accurate RPM readings.




*Figure 1: Tiny-Tach TT2A Tach and Hour Meter. This image shows the compact design of the unit, ready for installation on an engine.*

## 4. Operating Instructions

Once installed, the Tiny-Tach TT2A operates automatically:

- **RPM Display:** When the engine is running, the unit will display the current engine RPM. The display updates every 0.5 seconds.
- **Hour Meter:** The hour meter continuously records the total accumulated engine running time. This value cannot be reset.
- **Job Timer:** The job timer can be used to track specific operational periods. To reset the job timer, locate the small reset button (often recessed to prevent accidental resets) on the unit and press it using a pointed object (e.g., a paperclip).

## 5. Maintenance

The Tiny-Tach TT2A is designed for minimal maintenance:

- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The unit is water-resistant, but it is not designed for submersion. Avoid direct high-pressure water spray.
- **Battery:** The internal battery has an estimated life of five years and is not user-replaceable.

- **Cable Inspection:** Periodically inspect the antenna and coaxial cables for any signs of wear, damage, or loose connections. Ensure they remain securely wrapped around the spark plug wire.

## 6. Troubleshooting

If you encounter issues with your Tiny-Tach TT2A, refer to the following common solutions:

- **No Display/Unit Appears Off:** The Tiny-Tach TT2A does not have an on/off button. It is designed to be continuously powered by its internal battery. If the display is blank, ensure the engine is running and check the cable connections. If the issue persists, the internal battery may be depleted, indicating the end of the unit's lifespan.
- **Erratic RPM Readings:**
  - **Antenna Cable Wraps:** Ensure the antenna cable is securely and consistently wrapped around the spark plug wire. Try adjusting the number of wraps (e.g., adding or removing one wrap) to optimize signal reception.
  - **Engine Type Setting:** Verify that the unit is set to the correct spark per revolution for your engine type. An incorrect setting will result in inaccurate RPM readings.
  - **Interference:** Ensure the coaxial cable is routed away from other electrical components that might cause electromagnetic interference.
- **Hour Meter Not Advancing:** Ensure the engine is running and the unit is receiving a consistent RPM signal. If RPM is displayed correctly but hours are not accumulating, contact support.

## 7. Specifications

| Feature | Detail |
|---|---|
| **Brand** | Tiny-Tach |
| **Model** | TT2A |
| **Part Number** | TT2A |
| **Material** | Plastic |
| **Dimensions (L x W x H)** | 9 x 5.25 x 1 inches |
| **Item Weight** | 3.2 ounces |
| **RPM Display Range** | 1 to 19,000 RPM |
| **RPM Update Time** | 0.5 seconds |
| **Battery Life** | Approximately 5 years (non-replaceable) |
| **Included Components** | Tachometer unit |

## 8. Warranty Information

The Tiny-Tach TT2A comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accident, modification, or unauthorized repair. Please retain your proof of purchase for warranty claims.

## 9. Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Tiny-Tach customer support. Refer to the packaging or the official Tiny-Tach website for the most current contact information.

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**Details**

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