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# **SPEEDWAY** microTach+™ Tachometer Installation Instructions for Dual-Fire Ignition Systems Including: Earlier-2003 Sportsters Earlier - 1999 Evos & Big-Twins

**instruments**

Other model instructions available online at [www.speedwayinstruments.com](http://www.speedwayinstruments.com)

## **Introduction:**

Installation of the Speedway Instruments microTach+™ Tachometer requires some basic mechanical skills, including removing decorative covers, cutting protective tubing around wires, and using suitcase splice connectors to splice existing wiring harness. These actions may void your warranty, and if done incorrectly may cause damage to your motorcycle. Only you know your capabilities, if you do not feel capable of making modification please have a qualified motorcycle technician install it. Speedway Instruments, LLC is not responsible for damage to your motorcycle due to improper installation.

The microTach+™ Tachometer designed for all V-Twin motorcycles is designed to operate while connected through a Speedway Instruments Tach Adapter for either single-fire or dual fire ignition systems. You will severely damage the tachometer and possibly your ignition system if you connect the microTach+™ tachometer directly to coil.

**WARNING: Damage may occur to the microTach+™ Tachometer or your motorcycle if microTach+™ tachometer is connected directly to coil signals, use required tachAdapter!!**

1. Turn ignition off and disconnect Battery.
2. Determine a mounting position. Each motorcycle is unique and the microTach+™ tachometer is small enough to be placed in many different locations to provide an attractive appearance and vital engine status. Possible locations are:
  - a. Front Brake Reservoir

- b. Top handle bar clamp



*Figure 2: Top Clamp Mount*

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3. Locate the coil signal from the Electronic Ignition system and the coil in the wiring harness or the pink tachometer signal in wire harness near neck. The tach adapter must not be placed too close to the engine and wires should be protected with heat resistant tubing. Please consult your service manual to ensure proper signal location for your motorcycle.
4. Splice into the Coil signal(-) and connect to the Orange wires from Speedway Instruments tach adapter. Do not splice into the coil (+) signal. See Figure 3.
5. Now locate a Ground wire and an +12V power signal either from the accessory fuse or instruments fuse near a location that the 3 remaining tach adapter wires can be routed. Please consult the proper service manual for your motorcycle to determine location and color code.
6. Once the tach signal wire is located plan out a routing path from the microTach+™ tachometer to the tach adapter and power and ground signals. Use the black tubing to protect wires and allow them to blend in well with other wires.
7. Remove red plastic from back of the microTach+™ tachometer adhesive tape and mount the microTach+™ tachometer in place. Take extra care to ensure alignment and fitment before attaching. The adhesive tape is strong and will only stick once. If you mess up, don't worry, the tape can be removed and you can buy replacement tape at your local hardware store. Just remember to get exterior industrial grade tape.

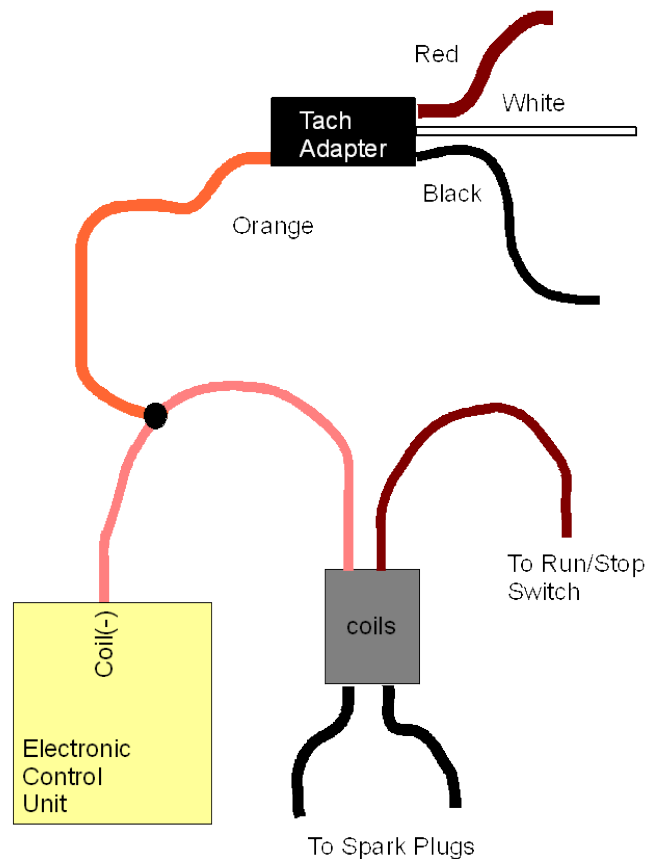


Figure 3: Tach adapter to Coil diagram

8. Cut black tubing to proper length then slip wires through to protect and improve appearance.
9. Secure wires to other wires or motorcycle were necessary.
10. Cut wires to proper length ensuring that you have enough slack for installation or normal operation of motorcycle as necessary.

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11. Use splice connectors to attach Red wire from microTach+™ tachometer and Red tach adapter wire to +12V instrumentation or accessory power. Attach Black wires from microTach+™ tachometer and tach adapter to Ground wire. Attach White wire from microTach+™ tachometer to the white signal from tach adapter. See Figure 4. (brown wire is not used on Dual-Fire systems)

12. Test motorcycle and microTach+™ Tachometer for proper operation

13. Put it all back together and secure all loose wires.

14. Enjoy your next ride and all that follow!  
Ride Safe!

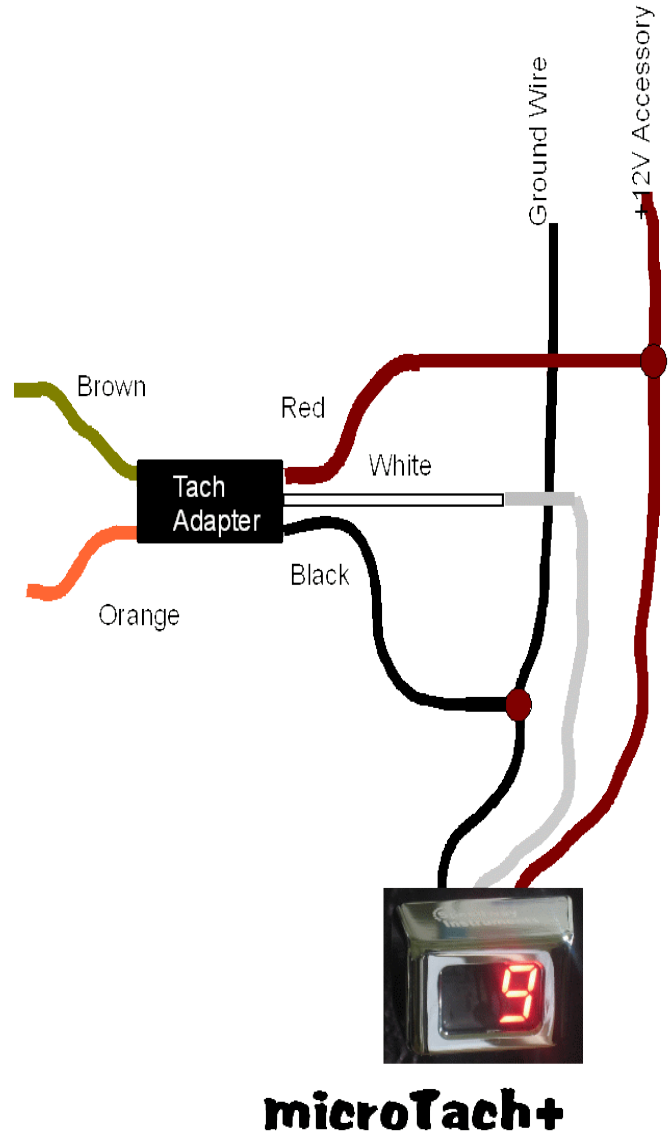


Figure 4: Tachometer to tach adapter diagram

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### MicroTach+™ Tachometer Wire Descriptions

Color	Descriptions	Connection
Red	+12V	Instrument power or accessory power
Black	Ground	Black ground wire
White	Tachometer signal	Pink Tachometer signal from Ignition module

### Tach Adapter Wire Descriptions

Color	Descriptions	Connection
Orange	Input	Left or Right Coil Input (-)
Red	+12V	Instrument power
White	Tachometer Signal	White wire of microTach+™ Tachometer
Black	Ground	Black Ground Wire