MicroTach+™ Tachometer
Installation Instructions for
2004+ Harley Davidson
Sportster Custom

Introduction:
Installation of the Speedway Instruments microTach+™ tachometer 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.

These instructions utilize a 2004 Harley Davidson XL1200C motorcycle as basis for the all descriptions and pictures. Variations in location, color and procedure may be required for different year and make. Please refer to the Service manual to confirm the proper color and location of wires. Please make sure you have the proper service manual and tools before starting the installation.

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
Procedure:
1. Slip tubing over 3 wires leaving about 1in spacing from microTach+™ tachometer (Figure 3).

2. Remove 2 T25 - Torx screws from riser cover under speedometer to expose instrumentation wiring. (Figure 4)

3. Remove 2 plastic retaining clips holding control wiring on handle bars (Figure 5). Use caution when removing in order to not break the barb ends.

4. Place microTach+™ tachometer in place in front of front brake reservoir slipping wires between reservoir and handle bars (Figure 1). Remove plastic from adhesive tape and stick into place.

5. Route wires along side existing wire tubing, wrap retaining clips around all wire bundles and replace clips into holes in handlebars.

6. Now identify 2 wire bundles coming out of back of the speedometer. The larger bundle is the instrumentation bundle (Figure 6). Using a sharp razor knife cut large protective tubing bundle around both bundles. Make a cut about 1in as shown in Figure 7.
7. Now cut protective tubing on instrumentation bundle about 1 in. toward speedometer. Then pull back cut tubing to expose 3-4 inches of individual wires. Identify and separate 3 wires for Databus, Instrumentation power, and Ground. (Figure 8)

**Note:** If you are installing on a Harley-Davidson bike other than 2004 HD Sportster the wire colors are the same.

**Colors for 2004-2007 HD:**
- LightGreen/Violet - Databus
- Black - Ground
- Orange/White - Instr. Power (+12V)

**Colors for 2008 HD:**
- LightGreen/Violet - Databus
- Black/Green - Ground
- Orange/White - Instr. Power (+12V)

8. Place suitcase splice on Ground wire. Ensure you use the through path side and squeeze it closed with pliers. Cut ground wire(black) from microTach+™ tachometer to proper length, make sure to have enough length to move wires around. Insert wire into proper end of suitcase splice connector close over wire and squeeze with pliers.

9. Repeat for 2 remaining wires from microTach+™ tachometer. Red connects to Instrumentation power and White connects to Databus.
10. Turn on motorcycle and test microTach+™ tachometer and speedometer function properly.

11. Tuck wires into risers and replace riser cover using T25 Torx wrench.

12. Enjoy the ride!

Figure 8: 3 wires with suitcase splice connectors