



INSTRUCTIONS

-J00784

REV. 11-27-01

Kit Numbers 67373-97, 67375-97, and 67377-97

SCREAMIN' EAGLE RACING TACHOMETERS

General

This Instruction Sheet describes installation procedures for the following tachometer kits:

67373-97, 3-3/4 in. dia. water resistant face (8000 RPM)

67375-97, 5 in. dia. water resistant face (10,000 RPM)

67377-97, 5 in. dia. face with shift light (10,000 RPM), not water resistant.

See Service Parts illustration for kit contents.

NOTE

- This tachometer operates on standard, factory electronic and high performance electronic racing ignitions. This tachometer is not for use on Super Mag Ignitions, or any other type of Magneto Ignitions.
- This tachometer is intended for racing and is very accurate at high rpms; however, between idle and 3,000 rpm, these tachometers may exhibit some float, particularly with 1/2 pulse ignition systems.

CAUTION

To avoid damage to tachometer when charging battery, disconnect the power source to the tachometer. Use only approved tachometer mount. Use of other mounts voids the warranty.

Installation

WARNING

To protect against shock and accidental start-up of vehicle, disconnect the battery cables, negative cable first, before proceeding. Inadequate safety precautions could result in death or serious injury.

WARNING

Always disconnect the negative battery cable first. If the positive battery cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

1. Disconnect the battery cables, negative cable first.

NOTE

Depending on handlebar riser configurations, a flat base plate (available for purchase as Part No. 67194-97) may be more suitable than the base plate supplied with this kit.

2. Drill holes in the base plate to match the holes on the triple tree or handlebar-riser upper clamp.

WARNING

A base plate mounted on a triple tree must provide thread engagement of at least 1.5 times the diameter of the mounting hardware used. A base plate mounted on handlebar risers use the same grade bolt and provide the same thread engagement as originally intended by the manufacturer. Inadequate thread engagement could lead to the mount or handlebars coming loose, resulting in personal injury.

3. Bolt the tachometer base plate securely in place. Refer to the applicable H-D Service Manual for torque specifications.
4. Align the holes in the tachometer base plate with the holes in the tachometer shock-strap mounting bracket. Place 1/4-20 screws through the tachometer base plate and mounting bracket, and secure with 1/4-20 acorn nuts.

CAUTION

After installation, check tachometer mounting to ensure tachometer does not contact any part of the motorcycle other than the shock strap provided. If contact occurs, vibration will be transmitted to the tachometer, possible causing damage. Failure to take this precaution may result in voiding the product warranty.

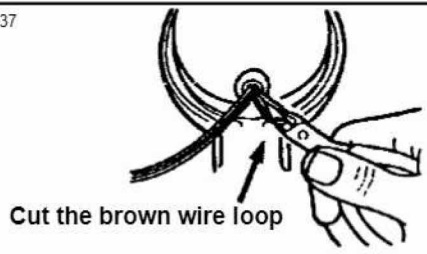
Wiring Notes

- Refer to the appropriate service manual for wiring diagrams.
 - Do not connect tachometer green wire to positive (+) side of coil.
 - If the tachometer green wire cannot connect to the negative side of the coil, the tachometer green wire typically connects to the pink wire.
 - Isolate the tachometer green wire from spark plug wires.
 - Minimize the length of wire(s) connected to the negative (-) side of the coil(s).
 - Keep red, white, and black power-supply wires together and in conduit when possible.
5. See Figure 4 for wiring connections. Check that all wire connections are clean and tight.

NOTE

For non-amplified single-fire ignition systems, the adapter included in this kit combines the tachometer signals from both coils. See Figure 4.

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Cut the brown wire loop

Figure 1. Preparing Tach for 1 Pulse per Revolution Systems

Calibration

This tachometer is calibrated for ignition systems using one or two ignition pulses per revolution. For both H-D ignition systems, either the conventional dual fire system used on most models (1 pulse system), or the single fire system used on EFI models (1 pulse system), make the following wiring modifications:

CAUTION

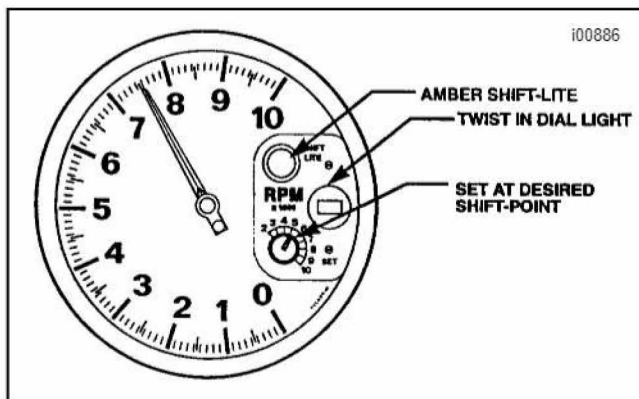
On electronic ignitions, connect the green tach wire to the tachometer lead in the vehicle wiring harness when available. **DO NOT** connect the green tach wire to the negative (-) coil lead on any amplified ignition system. Failure to correctly connect the green tach wire to the coil results in tachometer damage and voided warranty.

See Figure 1. After connecting the wires, cut the brown wire loop at the back of the tachometer. Cover the exposed wire ends with electrical tape. Do not push the wire ends into the case. H-D does not use a 2-pulse ignition system, but on 2-pulse systems, do not cut the brown wire loop.

WARNING

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

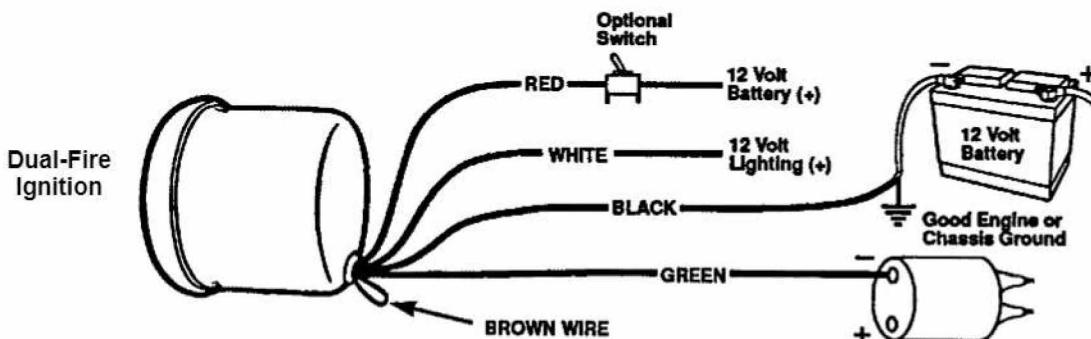
Connect the battery cables, positive cable first.



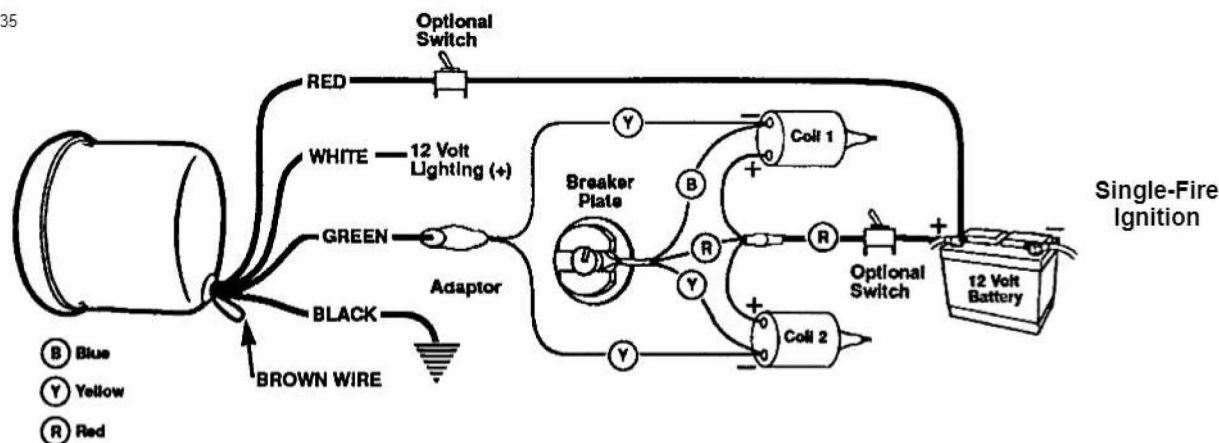
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Figure 2. Tachometer Face (Shift Light Model)

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- (B) Blue
- (Y) Yellow
- (R) Red

Figure 4. Wiring Connections

Tachometer Operation

NOTE

The tachometer pointer may not always rest at zero. This is normal. When the engine is started, the pointer will position on the correct RPM.

CAUTION

Some of these tachometers are water resistant on the face only (the backs are ventilated to prevent condensation). Be careful to protect the back side of the tachometer during cleaning. Also, make sure the backside of the tachometer is protected in mud or dirt racing. Failure to take these precautions may result in voiding product warranty.

NOTE

An under-charged battery may cause tachometer malfunction.

CAUTION

Check with the engine builder for the maximum recommended safe shift point before setting shift point on tachometer. Failure to correctly set the shift point could lead to over-revving of engine, resulting in engine damage.

Shift Light Operation

On vehicles equipped with the shift-light tachometer, determine the engine's shift point for maximum horsepower, then adjust the SET knob to this RPM. During normal operation, when the tachometer reaches the set point, the amber shift light illuminates. This light stays on until the engine speed drops below the set point. Adjust the SET knob to a lower RPM for a brief system check before racing.

Maintenance

Replacing the Dial Light Bulb

See Figure 2.

To replace the dial light bulb on 5-in. dia. models with a shift light, turn the socket counterclockwise and remove. Pull out the old bulb and insert a new one. To install the socket, align the locking tabs and turn clockwise.

The dial light bulb on 5-in. dia. models without a shift light are non-serviceable. If the dial light burns out, return the tachometer to Auto Meter for replacement.

To replace dial light bulb on 3-3/4 in. dia. models, use a screwdriver to pop the socket out from the rear of the housing. Replace the bulb, then snap the socket back into the housing.

Replacing Shift-Light Bulb

See Figure 3. To replace the dial light bulb on 5-in. dia. models with a shift light, turn the lens counterclockwise and remove. Pull out the old bulb and insert new one. To replace the lens cover, align the locking tabs and turn clockwise.

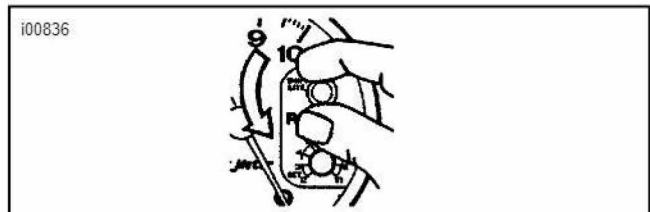


Figure 3. Replacing Shift Light Bulb

SERVICE

For Service, send your product to Auto Meter in a well-packed shipping carton. Please include a note with your phone number and an explanation of the problem. Please specify when you need the product back. If you need it back immediately, mark the outside of the box "RUSH REPAIR," and Auto Meter will service the product within two days after receiving it. A \$10.00 charge is added to the cost of a "RUSH REPAIR". If you are sending the product back for Warranty adjustment, you must include a copy, or original, of your sales receipt from the place of purchase.

12 MONTH LIMITED WARRANTY

Auto Meter Products, Inc. warrants to the consumer that all Auto Meter High Performance products that fall within this 12 month warranty period will be free from defects in material and workmanship for a period of twelve (12) months from date of original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at Auto Meter's option to the consumer, when it is determined by Auto Meter Products, Inc. that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the Auto Meter Instruments. In no event shall this warranty exceed the original purchase price of the Auto Meter Instruments nor shall Auto Meter, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product. Warranty claims to Auto Meter must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the meter seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations void this warranty. Auto Meter Products, Inc. disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by Auto Meter.

FOR SERVICE SEND TO: **AUTO METER PRODUCTS, INC.** 413 W. Elm St. Sycamore, IL 60178 USA (815) 895-8141



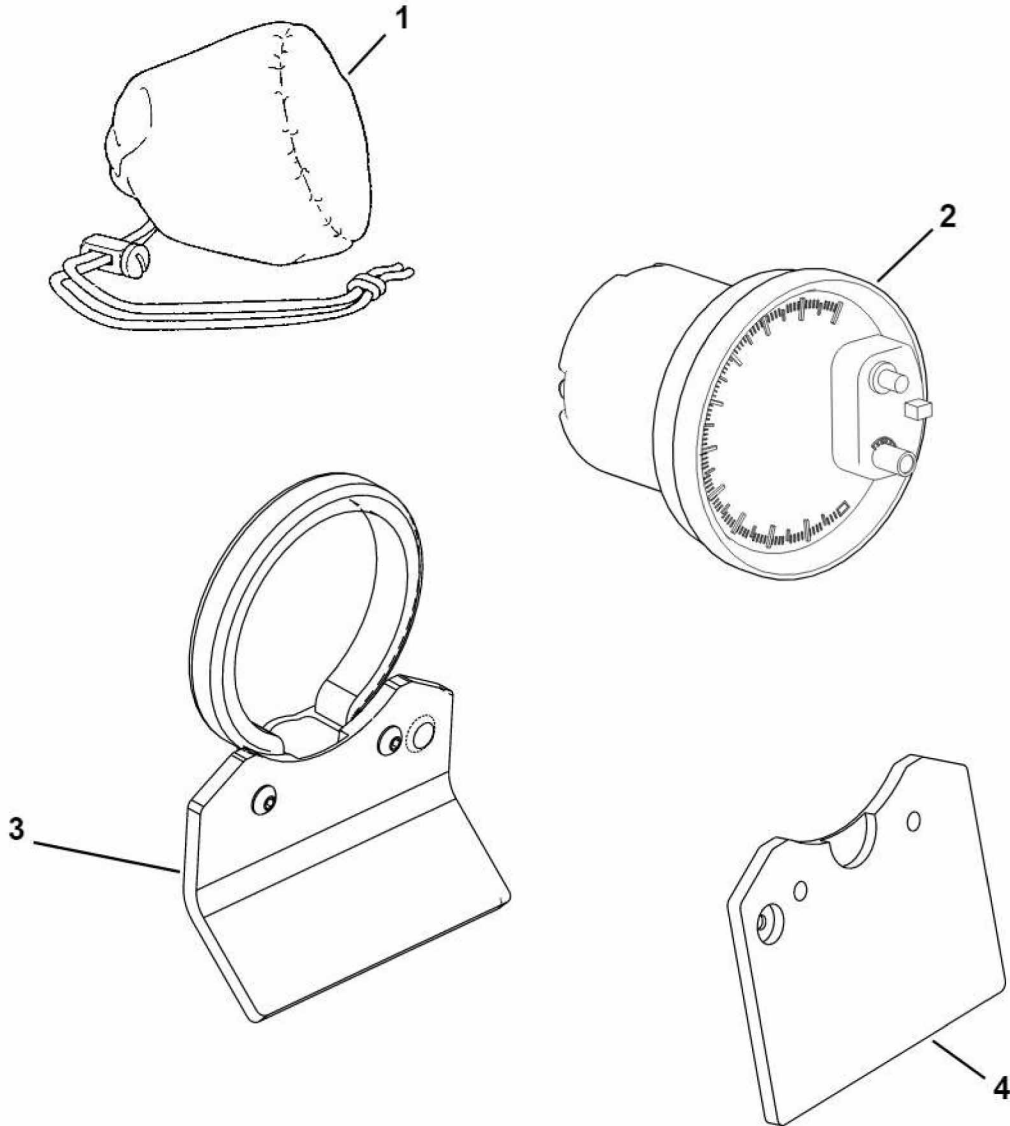
Service Parts

Part No. 67373-97 and others

Date 6/97

Screamin' Eagle Racing Tachometers

sp67373



Item	Description	Part No.	Item	Description	Part No.
1	Cover (available separately)	98838-97	-	Adapter (not shown) (use with dual coils)	67380-97
2	Tachometer 3-3/4 in. dia. face, 8K 5 in. dia. face, 10K 5 in. dia. face, 10K with shift light (model shown)	not sold separately not sold separately not sold separately	-	Replacement bulbs (not shown), dial light (for 67378-97) (Auto Meter P.N. 3219) shift light (for 67378-97) (Auto Meter P.N. 3219)	GE 86 GE 86
3	Base plate with shockstrap	67379-97		dial light (for 67374-97) (Auto Meter P.N. 3218)	CM 363
4	Base plate, Flat (available separately)	67194-97			