

# INSTALLATION INSTRUCTIONS TACHOMETER KIT

## 1 BEFORE YOU START

**NOTE:** This tachometer is designed for use on Distributor-equipped, 12 volt negative (-) ground, four-cycle automotive 4-, 6- and 8-cylinder engines. It is not designed for use on positive (+) ground electrical systems, two-cycle engines, aircraft or marine applications. Installation on Distributorless Ignition Systems (DIS) is not recommended.

1. Read instructions completely before installation.
2. Install tachometer only when engine is cool and ignition is off.
3. Make sure all necessary tools, materials, and parts are on hand.
4. Refer to your vehicle's service manual for the location of the proper tachometer signal port.

5. Disconnect negative (-) battery cable before installing tachometer.

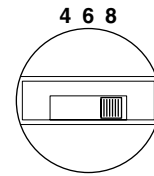
**NOTE:** It may be necessary to reprogram your radio, clock, etc. after reconnecting the battery.

6. Make sure mounting location does not impair visibility or interfere with driving. Also check behind the mounting location for any wiring or components before drilling.
7. When connecting electrical wires, install crimp terminals and make wire splices as needed. ALWAYS insulate wire splices with electrical tape or shrink tubing to prevent shorting.
8. Follow all necessary safety procedures for protection.

## 2 ENGINE CYLINDER ADJUSTMENT

The tachometer is designed for use with 4-, 6-, and 8-cylinder engines only.

The cylinder select switch on the rear of the tachometer must be set prior to installation. Use your finger or a small screwdriver to slide the cylinder select switch to the appropriate position; 4, 6, or 8.

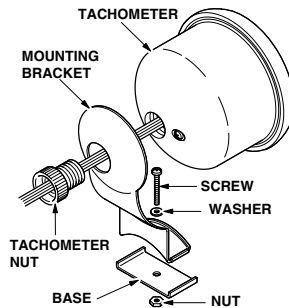


## 3 MOUNTING THE TACHOMETER

**NOTE:** Verify the tachometer is electrically compatible with your vehicle BEFORE drilling holes or permanently mounting the unit. Temporarily connect the tachometer according to the wiring diagrams in step 4. If the tachometer works properly, proceed with permanent installation.

For on-dash, under-dash, or on-steering column installation.

1. Determine mounting location and install the mounting bracket:

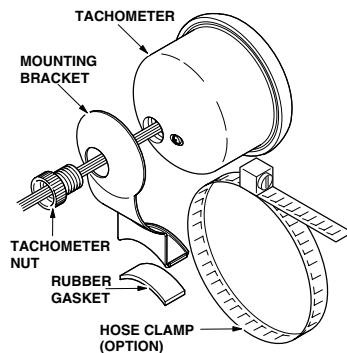


DASH MOUNTING

For on-dash or under-dash mounting, drill a 3/16" hole in dash. Install base and mounting bracket and secure to dash with screw, washer and nut.

To mount on steering column, use large hose retainer clamp (option) and rubber gasket provided.

2. Route tachometer lead wires through mounting bracket and tachometer nut.



DASH MOUNTING

3. Make necessary connections to tachometer (see step 4).

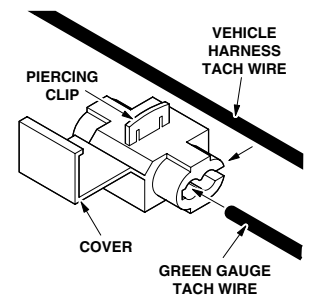
4. Install tachometer on mounting bracket, and secure with tachometer nut.

## 4 TACHOMETER CONNECTION

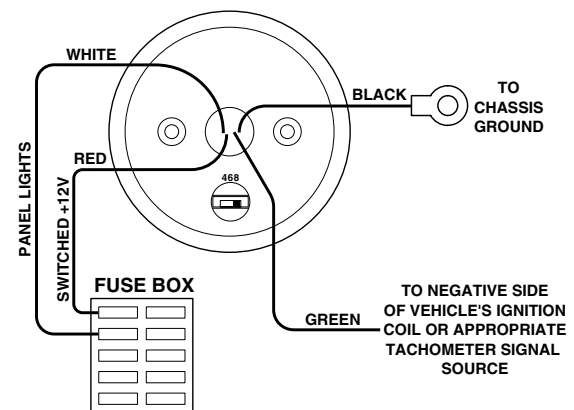
### SPLICE CONNECTOR

If necessary, use a splice connector (provided) when connecting tachometer wires to the vehicle's wire harness.

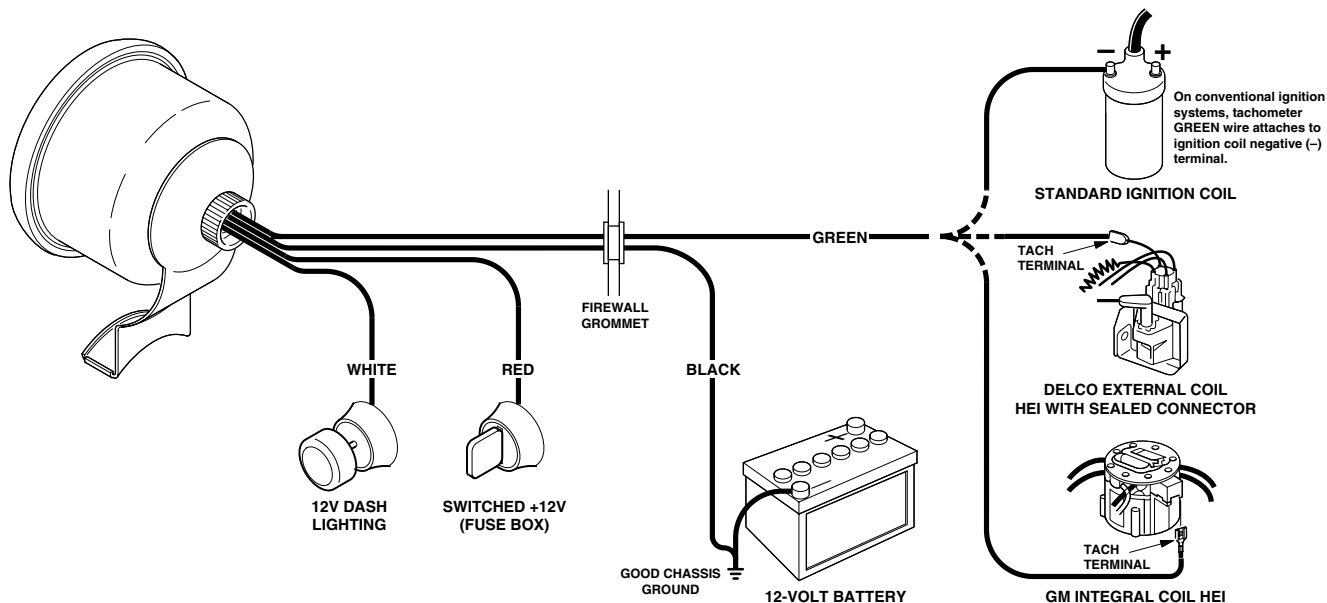
Insert the tachometer and vehicle wires as shown, press down on piercing clip to pierce wires, then close and latch splice connector cover.



1. Determine routing for tachometer lead wires. Use an existing firewall grommet, or drill a 3/8" hole through firewall to accommodate lead wires. Install a rubber grommet (provided) in hole, or wrap with electrical tape, to protect lead wires from chaffing or other damage.



## 4 TACHOMETER CONNECTION (Cont)



**NOTE:** The above diagrams are typical examples of tachometer wiring connections. For applications that are different from these diagrams, or in cases where the negative side of the ignition coil cannot be identified, refer to the vehicle's service manual.

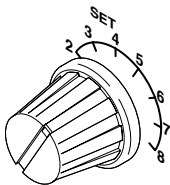
2. Install and crimp or solder terminal lug (provided) on tachometer ground (BLACK) wire.
3. Connect tachometer ground (BLACK) wire to negative (-) battery terminal or to a good chassis ground.
4. Connect tachometer power (RED) wire to a switched +12V circuit at fuse box, or splice into an appropriate vehicle harness wire which is energized **ONLY** when ignition key is in ON (RUN) position.
5. Connect tachometer lighting (WHITE) wire to panel lights circuit at fuse box, or splice into an appropriate vehicle harness wire connected to the panel lights circuit.
6. Connect tachometer signal (GREEN) wire to the b side of the ignition coil, or to an appropriate vehicle tachometer signal source (on most distributor-equipped ignition systems, the appropriate signal source is the negative side of the ignition coil).

**IMPORTANT:** Ignition coils vary in shape, size and location in the engine compartment. ALWAYS consult the vehicle's service manual to properly identify the negative side of the ignition coil, and ensure proper connection of the tachometer ignition coil (GREEN) wire.

7. Secure lead wires along their route to prevent damage from sharp edges, moving parts or hot engine components.
8. Turn on ignition. DO NOT START ENGINE. Tachometer pointer should rotate to minimum or "0" when ignition is turned on.
9. Start and run engine. Rev engine several times and verify tachometer indication changes as RPM increases and decreases. Make sure tachometer pointer operation is smooth and even.

## 5 SHIFT LIGHT OPERATION (For Shift Light Tachometers Only)

The Shift Light can be used to provide a visual indication of engine "Red Line" (maximum safe engine speed) or engine maximum torque RPM (for maximum horse-power when shifting). Operation of the Shift Light is controlled by the SET knob located on the lower left side of the tachometer.



Rotate the SET knob to the desired engine RPM. When the tachometer reaches the SET point, the Shift Light will turn on.

The Shift Light will remain on until engine RPM falls below the set point.

Shift-Light



## LIMITED WARRANTY AND SERVICE PROCEDURES

The Manufacturer warrants to the original purchaser that this unit is free of defects in materials and workmanship for a period of one (1) year from the date of original purchase. If the unit fails within the one (1) year period, it will be repaired or replaced, at the Manufacturer's option, at no charge, when returned prepaid to the Technical Service Center with Proof of Purchase. The sales receipt may be used for this purpose. Installation labor is not covered under this warranty.

All replacement parts, whether new or re-manufactured, assume as their warranty period for only the remaining time of this warranty. This warranty does not apply to damage caused by improper use, accident, abuse, or if the product was altered or repaired by anyone other than the Manufacturer's Technical Service Center. Consequential and incidental damages are not recoverable under this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. No portion of this warranty may be copied or duplicated without the expressed written permission from the Manufacturer.

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### Technical Assistance and Warranty Service:

Products requiring service should be returned as follows:

1. Call the Technical Service Center to obtain a Return Reference Number:
2. Package the product carefully to prevent shipping damage
3. Include your name, return address, and a day contact phone
4. Enclose a copy of the dated sales receipt
5. Describe the problem
6. Ship prepaid to: Technical Service Center, 17352 Von Karman Ave, Irvine, CA. 92614 U.S.A.

For Technical Assistance/Warranty Service, contact us at:

Phone: USA & Canada 1-800-544-4124 (6am-6pm, 7 days a week, PST)

Others 714-241-6805; Fax: 714-432-3979; Web: [www.Equus.com](http://www.Equus.com)

Email: [service@Equus.com](mailto:service@Equus.com)