



# INSTRUCTIONS

-J00068

REV. 7-22-96

Kit Numbers 32420-87B and 32421-85B

## SCREAMIN' EAGLE IGNITION MODULE

### General

#### ⚠CAUTION

This Screamin' Eagle ignition module is intended for high-performance off-road racing applications only, and may adversely affect the motorcycle's emissions and/or noise control systems. This engine-related performance part is not legal for sale or use in California on pollution-controlled motor vehicles. Use of this Screamin' Eagle ignition module in an on-road vehicle application will void the Limited Warranty coverage.

This ignition module is designed for replacement of the original equipment ignition module on specific Harley-Davidson motorcycle models with electronic ignition. Depending on the particular part number, this module may be installed on the following models, respectively:

<b>32420-87B</b>	1986-1993 XL 883cc and 1200cc Evolution engines
<b>32421-85B</b>	1984-1994 FX/Softail/ FXR/FXD Dyna Glide models, and 1984-1993 FLT/FLHT/FLHS 1340cc Evolution engines

#### ⚠CAUTION

- Do not install this ignition module on any model other than those specified above. Doing so may result in adverse engine operation and/or damage to vehicle electrical and engine components.
- This Screamin' Eagle ignition module will allow the engine to rev up to 8,000 rpm, which is well above design parameters. It is imperative that the rider use the tachometer and avoid harmful overrevving. **ENGINE-RELATED PERFORMANCE PARTS ARE INTENDED FOR THE EXPERIENCED RIDER ONLY.** An adjustable rev limiter may be installed for added assurance. See your Harley-Davidson dealer for product recommendation.

QTY	DESCRIPTION
1	Module, Screamin' Eagle ignition

See Figure 1. All ignition modules, for the above model applications, contain seven color-coded wire leads. Original equipment ignition modules, on 1984-1990 model year motorcycles, have these seven wire leads grouped into four separate wiring harness branches of different lengths, with each wire terminating in either a pin type, a ring type or a spade type terminal. Original equipment ignition modules, on 1991 and Later model year motorcycles, have these seven wire leads grouped into a single six-inch long "pigtail" wiring harness which

terminates in a seven-socket connector. The ignition module in this package is of the new style (1991 and Later).

When replacing the ignition module on 1991 and Later model year vehicles (and on 1984 - 1990 model year vehicles in which a new style ignition module has been previously installed), the seven-socket connector of the new ignition module will simply plug into the seven-pin connector of the motorcycle's existing wiring harness.

#### NOTE

*Faulty ignition module operation may result from wiring harness problems. If this Screamin' Eagle ignition system malfunction exists, inspect the vehicle's wiring harness to determine if it is faulty. If the existing wiring harness is faulty, repair or replace it before installing the new ignition module.*

When replacing the early style ignition module on 1984 - 1990 model year vehicles, however, a new adapter wiring harness must also be installed to allow plug-in connection with the new ignition module. See your Harley-Davidson dealer regarding availability of Ignition Module Adapter Wiring Harness Kit (Part No. 32408-90).

#### NOTE

*Ignition modules being replaced under warranty must be submitted with all wire terminals intact (warranty claims will be rejected for modules submitted with wires cut and/or terminals removed). Regardless of warranty considerations, do not splice the wires of the new ignition modules to the wires of the original module's wiring harness.*

### Installation

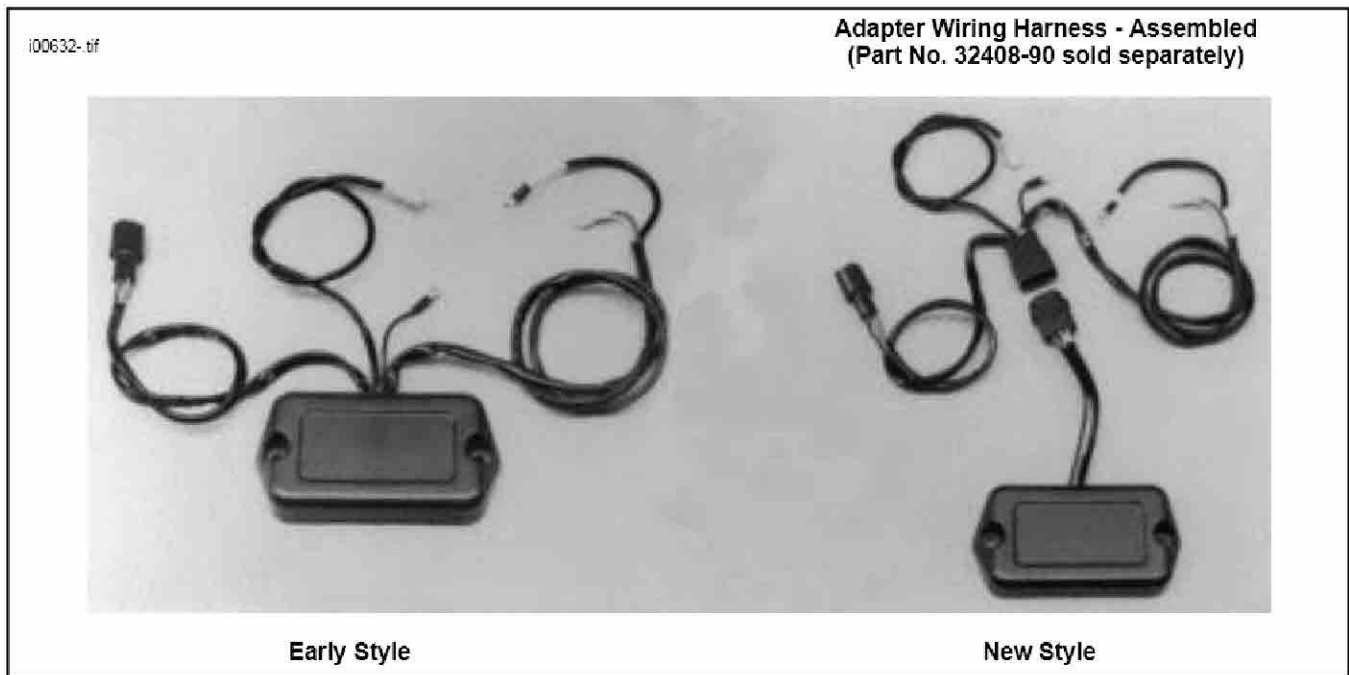
#### ⚠WARNING

To avoid accidental start-up of vehicle and possible personal injury, disconnect battery cables from battery (negative cable first) before performing any of the following procedures.

1. Locate and gain access to existing ignition module using the following information:

MODEL	IGNITION MODULE LOCATION
FLT	Left side fairing mount bracket
FLHT	Left side of steering head
FXR/FXRP	Behind right frame side cover
FX/Softail 1984-1985	Behind regulator at front of frame
FX/Softail 1986-1988	Under oil tank
Softail 1989 and Later	On frame member above oil tank
XLH	Behind left frame side cover

2. See Figure 1. For 1984 - 1990 model year vehicles with original equipment (early style) ignition modules, proceed to Step 4. For 1991 and later model year vehicles (and for 1984 - 1990 model year vehicles in which a new style ignition module has been previously installed), proceed to Step 3.
3. Disconnect seven-socket connector of existing module from seven-pin connector of wiring harness. Remove and save ignition module mounting fasteners; remove existing ignition module. Proceed to Step 6.
4. Take note of the routing of existing module wire leads. Disconnect all ignition module wire leads at terminals (see Figure 2 for terminal locations). Remove and save ignition module mounting fasteners; remove existing ignition module.
5. Install Ignition Module Adapter Wiring Harness Kit (Part No. 32408-90) according to instructions included with that kit.
6. Install new ignition module with original mounting fasteners. Connect seven-socket connector of new module to seven-pin connector or wiring harness.
7. Install any components or covers which may have been removed to gain access to ignition module. Connect battery cables to battery (positive cable first).



**Figure 1. Early Style (1984-1990) and New Style (1991 and Later) Ignition Module**

1984-1990 Original Module Wire Color Code	Wire Terminal Location
<b>Blue</b>	Ignition coil negative (-)
<b>White</b>	Ignition coil positive (+)
<b>Black</b>	Ignition sensor plate connector
<b>Black</b>	Ground to battery and/or frame
<b>Violet</b>	Vacuum-operated electric switch (V.O.E.S.)
<b>Green</b>	Ignition sensor plate connector
<b>Red</b>	Ignition sensor plate connector

**Figure 2. 1984 - 1990 Original Ignition Module Wire Terminal Locations**