



INSTRUCTIONS

-J00067

REV. 7-1-90

Kit Number 32408-90

IGNITION MODULE ADAPTER WIRING HARNESS KIT

General

The adapter wiring harness in this kit is designed for installation on 1984 - 1990 model year motorcycles, and is to be used in conjunction with any of the following ignition modules: 32405-91, 32410-91, 32419-91, 32432-91, 32420-87A, 32421-85A. Specific vehicle applications are listed in the Instruction Sheet included with the ignition module.

This Ignition Module Adapter Wiring Harness Kit consists of the following components:

QTY	DESCRIPTION
1	Conduit, 10-inch long vinyl
1	Conduit, 33-inch long high-temp vinyl
1	Conduit, 34-inch long vinyl
1	Conduit, 48-inch long high-temp vinyl
1	Connector, 3-pin/socket
1	Harness, ignition module adapter wiring
7	Strap, cable
2	Terminal, pin type
2	Terminal, ring type (for #10 stud size)
1	Terminal, ring type (for 1/4-inch stud size)
1	Terminal, ring type (for 3/8-inch stud size)
1	Terminal, socket type
1	Terminal, spade type - female (small)
1	Terminal, spade type - female (large)

NOTE

Additional terminals of different sizes are provided in this kit to accommodate a variety of model applications.

Original equipment ignition modules, on 1984 - 1990 model year motorcycles, have seven color-coded wire leads grouped into four separate wiring harness branches of different lengths. Each of the seven wire leads terminates in either a pin type, a socket type, a ring type, or a spade type terminal.

Original equipment ignition modules, on 1991 and later model year motorcycles, have seven color-coded wire leads grouped into a single six-inch long "pigtail" wiring harness, which terminates in a seven-socket connector. The replacement ignition modules listed above are of the new style (1991 and later).

Once assembled, the adapter wiring harness in this kit connects to the vehicle's electrical system components/harnesses in the same locations as the original module wires, and allows simple plug-in connection of the adapter harness's seven-pin connector to the new style replacement module's seven-socket connector.

NOTE

All seven wire leads of this adapter wiring harness must be terminated in the manner specified in this Instruction Sheet. Do not splice the wires of the adapter wiring harness 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. Using the table on Page 2, compare wire color codes of adapter harness from kit (and new module pigtail) with those of original module on motorcycle.

NOTE

On 1984 - 1990 original modules, color code for both the ground wire and one of the ignition sensor wires is black. To distinguish between the two, note that the black ground wire is not grouped with any other wire lead, and that the black ignition sensor plate wire is grouped (encased by conduit) with the two other sensor plate wires (green and red).

2. Take note of the routing of original ignition module wire leads. Disconnect these module wire leads at the terminals and remove module according to Instruction Sheet included with module.
3. Position seven-pin connector of adapter harness over location on motorcycle in which original ignition module was mounted. You may wish to tape the connector in place so that it does not shift position during the wire routing procedures which follow.

NOTE

To ease installation of conduit over adapter harness wires, immerse wire insulation and conduit in soapy water beforehand. It may also help to temporarily attach a relatively rigid "leader" wire to the end of the harness wire(s); whereupon, the leader wire should be inserted through the conduit, and then used to pull the harness wire(s) through the conduit.

In the wire routing procedures which follow, cable straps from this kit will be used to secure the different wire branches of the adapter harness to the vehicle. In most cases, the cable straps should be installed at the same time that the wires are being routed. In some situations, if a cable strap needs to be installed close to the wire end(s) being terminated, it may be easier to install the strap only after the terminal(s) has actually been installed to the wire(s).

4. Install the 48-inch long high-temp vinyl conduit from kit over pink and white wires of adapter harness. Install this 2-wire/conduit assembly on the motorcycle using the same routing (to the ignition coil) as the original module blue and white wires; install cable strap(s) as required to properly secure wires.
5. When routing of 2-wire/conduit assembly reaches ignition coil, cut off excess length of wires and conduit (note that one wire will be longer than the other, as was the case with original module wires). If one of the original module wires to ignition coil had a short length of small-diameter conduit encasing it near the terminal, add a similar length of conduit to corresponding wire of adapter harness (use the kit's 10-inch long piece of conduit cut to proper length).
6. Trim off about 1/4 inch of insulation at the loose end of each of the two wires. Install small female spade type terminal from kit to pink wire; connect terminal to ignition coil primary negative (-). Install one of the ring type terminals (#10 stud size) from kit to white wire; connect terminal to ignition coil primary positive (+).
7. Install the 33-inch long high-temp vinyl conduit from kit over black/white, green, and red wires of adapter harness. Install this 3-wire/conduit assembly on motorcycle using same routing (to ignition sensor plate connector) as original module black, green, and red wires; install cable strap(s) as required to properly secure wires.
8. When routing of 3-wire/conduit assembly reaches ignition sensor plate connector, cut off excess length of wires and conduit. Trim off about 1/4 inch of insulation at the loose end of each of the three wires. Install pin type terminals from kit to black/white and green wires; install socket type terminal from kit to red wire (AMP #90184-1 is a recommended crimping tool for this procedure).
9. Insert the three wire terminals into positions, in back of 3-pin/socket connector from kit, which will allow adapter harness wires to connect with their matching color wires of the existing ignition sensor plate connector, respectively (i.e. - black/white to black, green to green, and red to red). Push each pin/socket terminal far enough into connector so as to lock terminal into place (use of a special installation tool, such as ITT Cannon #CIT-SS-14, is recommended). Connect adapter harness 3-pin/socket connector to ignition sensor plate connector.
10. Route solid black ground wire of adapter harness in same manner as black ground wire of original module; install cable strap, if required, to secure wire. Trim off about 1/4 inch of insulation at the loose end of the wire. Install the one ring type terminal in this kit (of the three remaining terminals) which is the same size as the terminal on the original module ground wire. Secure terminal to original ground location with original fastener.
11. Install the 34-inch long vinyl conduit from kit over violet/white wire of adapter harness. Install this wire/conduit assembly on motorcycle using same routing (to vacuum-operated electric switch — V.O.E.S.) as original module violet wire; install cable strap(s) as required to properly secure wire.
12. When routing of wire/conduit assembly reaches vacuum-operated electric switch (V.O.E.S.), cut off excess length of wire and conduit. Trim off about 1/4 inch of insulation at the loose end of the wire. Install large female spade type terminal from kit to violet/white wire; connect terminal to V.O.E.S.
13. Complete the installation of new ignition module according to Instruction Sheet included with module.
14. Connect seven-socket connector of new module to seven-pin connector of wiring harness. Install any components or covers which may have been removed to gain access to ignition module and wire terminal connections. Connect battery cables to battery (positive cable first).

Seven-Pin/Socket Connector Position Number	Adapter Wiring Harness and New Module Wire Color	1984-1990 Original Module Wire Color	Wire Terminal Location
1	Pink	Blue	Ignition coil negative (-)
2	White	White	Ignition coil positive (+)
3	Black/White	Black	Ignition sensor plate connector
4	Black	Black	Ground to battery and/or frame
5	Violet/White	Violet	Vacuum-operated electric switch (V.O.E.S.)
6	Green	Green	Ignition sensor plate connector
7	Red	Red	Ignition sensor plate connector

Adapter Wiring Harness and Ignition Module Wire Color Coding