



## USER INSTRUCTIONS

### DYNA 2000-HD Extension Harness

Part No. 1009001

For

Harley-Davidson Motorcycles

#### DESCRIPTION

The DYNA 2000-HD Extension Harness is necessary to complete the installation of a DYNA 2000 ignition system on 1984 to 1990 Harleys.

**\*\* IMPORTANT \*\*** This harness is only necessary if the original wiring does not have a 7 pin plug at the stock ignition module which allows the removal of the ignition module without disturbing the ignition system wiring on the rest of the vehicle.

#### INSTALLATION

Connection list

new harness wire

white

pink

purple

black

bundled - blk/wht, red, grn

destination

coil(+), switched +12v from ignition switch

coil(-), negative side of coil

V.O.E.S., vacuum switch

chassis ground

ignition pickup

1. Locate the stock ignition module. Unbolt the module and loosen any hold down hardware on the ignition module wiring harness. Remove the stock ignition wiring from the bike noting where each connection is to ease installation of the new harness.
2. Locate the 7 pin connector on the end of your new wiring harness. Place this connector near the final mounting location of the ignition module and temporarily attach this end of the harness to the bike.
3. Take the leg of the new harness that contains the pink and white wires. Route these wires to the coil area. The white wire goes to the +12v side of the coil. There should be a white wire coming from the ignition switch (or run/stop sw.) already on this terminal. The pink wire goes to the minus side of the coil. On bikes with tachometers, there should be a pink wire already on this terminal that goes to the tach. Shorten the white and pink wires to an appropriate length and attach the proper style terminal to the end of each. Attach each of these wires to the appropriate coil terminals discussed above.
4. Take the purple wire on the new harness and route it to the Vacuum Operated Electric Switch (V.O.E.S.). This switch is operated from a vacuum line coming from the carburetor and can usually be found mounted between the cylinders under the

gas tank. The V.O.E.S. should have one wire to chassis ground and one wire loose from disconnecting the stock harness. Shorten the purple wire to an appropriate length, install a terminal on the end, and plug it in to the loose wire on the V.O.E.S. If your bike does not have a V.O.E.S., your new ignition will still work fine, just tie up the purple wire out of the way at the ignition module location (don't connect it to anything).

5. Find the short (one foot long) black wire on the new harness. This is the ground wire for the ignition system. Connect this wire to a good solid chassis bolt (or battery negative). Make sure that you don't bolt this wire to a rubber mounted plate, or your ignition will not work.

6. Find the bundled black/white, red, and green wires. These are the pickup wires. Route this bundle toward the camshaft cone location. Make certain the wires are not too close to the exhaust pipes. Use tie wraps or other means to make sure these wires are secure and away from any harm from heat or abrasion. The stock pickup should plug right in to the 3 pin connector already installed on these wires. If you are using a DYNA S ignition as a pickup you will need DYNATEK Part No. 1404001, DYNA S/2000 pickup adapter kit. This adapter kit contains a mating 3 pin plug to attach the DYNA S to the extension harness.

Your new harness should be completely hooked up now. Connect an ignition module to the 7 pin connector, and you should be done.

# DYNA 2000-HD SYSTEM WIRING

