

VT No. 32-3000

CAUTION: READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION.

INTRODUCTION

Difficulty in starting is a common problem on many Harley-Davidson® motorcycles. In some cases this is due to a weak or undersized battery or a problem with the wiring on the bike. In other cases it is due to a high-compression, big-inch engine which causes the starter motor to labor during cranking. Under these conditions, the voltage available to the ignition system may fall to as low as 5 volts as the engine comes up on compression. This voltage drop can reduce the spark energy to a level insufficient for firing the engine.

In single fire applications where the voltage at the coil drops during cranking, adding a Start Boost Relay can improve starting performance. This relay applies full battery voltage to the ignition (module and coil) and eliminates the 1-2 volt drop in the H-D wiring harness.

INSTALLATION

Disconnect the white ignition switch wire from the Coil+ terminal and connect it to the relay #86 terminal using a 1/4" female push-on crimp terminal. The terminal numbers are marked on the bottom of the relay. Then hookup the remaining connections to the relay as shown below. Use 16 AWG (gauge) stranded copper wire. Connect the wires to the relay using 1/4" female push-on crimp terminals. Use a proper crimping tool.

WARNING: Do not perform any work or disconnect any part of the ignition system without first disconnecting the battery ground cable.

