NAMZ Custom Cycle Products

NAMZ Stand Alone Ignition Harness, Part # NSAIH-01

- **Fits '04-'06 OEM style, Screaming Eagle, Daytona Twin Tec TC88A or Dyna 2000 TC-3 Ignition Modules. Perfect when using a Twin Cam motor with a crank position sensor.**
- **This harness is made for easy installation but should be installed by experienced and professional technicians at a reputable motorcycle shop or dealership.**
- **Disconnect the battery FIRST!**

Thank you for purchasing a quality NAMZ product! The (NSAIH-01) Stand Alone Igntion Harness is the perfect start for providing Ignition Cycle in any Twin Cam motor with a crank position sensor. This Harness works great when coupled with our Complete Bike Harness **NCBH-01-A** when building a truely custom Twin Cam. Our harness is simple, providing the essential connections that allow your motor to run. While this product is designed for easy installation, we strongly recommend having a professional provide the installation for you so that it's done right the first time.

Take a look at the features our NSAIH-01 offers:

- OEM color-matching wiring.
- 12-Pin Deutsch connector for Ignition Module with 3' wires installed.
- OEM Ignition Coil connections with terminal, seals, and ring teriminals.
- OEM 2-Pin Deutsche crank position sensor connector with terminals and wedgelock
- OEM Map Sensor connector with terminals and seals.
- Heat shrink of various sizes 3/16", 1/4", 3/8" and 1/2" ID.

INSTALLATION:

Before you install your new wiring harness, take a look over the motorcycle and come up with a plan for routing the wires to where they need to go. Consult the factory service manual as well as the ignition manufacture for specific recommendations. Be sure to plan out all wiring on the schematics before installing wiring. Remember, the more time you put into your wiring job now, can only reduce the chance of any problems in the future.

Provided Materials:

Our Stand Alone Ignition Harness provides everything you need to get your motor running. Please ensure you have received all the provided materials as follows:

1) MDP-2B Deutsch Mini 2-Position Female with Wedge lock and 2 Terminals

1) ND-15354716-B 4-Way Female Connector with 4 Female Terminals and 4 Yellow Seals

1) ND-12162191-B 4-Way Female Connector with 3 Female Terminals

1) ND-12162182-B 3-Way Female Connector with 3 Female Terminals

1) ND-12129946-B 3-Position Female Connector with 3 Female Terminal 3 Seals and TPA Lock

3) Ring Terminals

1) 1' x 1/2" Heat Shrink

1) 2' x 1/4" Heat Shrink

1) 4' x 3/16" Heat Shrink

1) 1' x #18 AWG Black Wire

MAKING THE CONNECTIONS:

As you can see by looking over the included, full colour wiring schematic, the final connections are going to be pretty simple. Following our schematic and the factory service manual you will see that there are only six essential connections needed for our standalone ignition harness. These are the ignition module, coil, MAP sensor and crank position sensor. We will also need to provide the harness with a good ground and a 12V (+) run/stop signal. All of these connections on the ignition module connector have already been made for you. When installing the terminals, be sure to crimp terminals correctly, i.e. a solid crimp on the wire and seal crimped with wire shielding. Utilizing the proper tools is key to doing it right the first time; that is why we now offer a crimp tool for just these terminals **NDC-990170.**

Routing the Wires

Route the wires in a natural way and ensure that they will not be pinched or damaged during assembly. Provide all wires with adequate length; remember that having too much wire is better than not having enough. Install heat shrink starting with the largest diameter shrink working down to smaller diameter. Shrink after the connectors have been installed.

Powering the Module

To power the ignition module and coil two White wires with Black stripes wires located in Position 1 on the Ignition Module connector. One of these wires should be run to switched power Run/Stop switch. The Orange Wire in position 2 has to be run to a switched power source, and we recommend using a circuit breaker or inline fuse for circuit protection here. To couple this part with our Complete Bike Harness **NCBH-01-A**, connect the White/Black wire from the module to the Black wire from the On/Off Switch, and connect the Orange wire to the Grey switched power wire to the Run/Kill Switch.

Ignition Coil

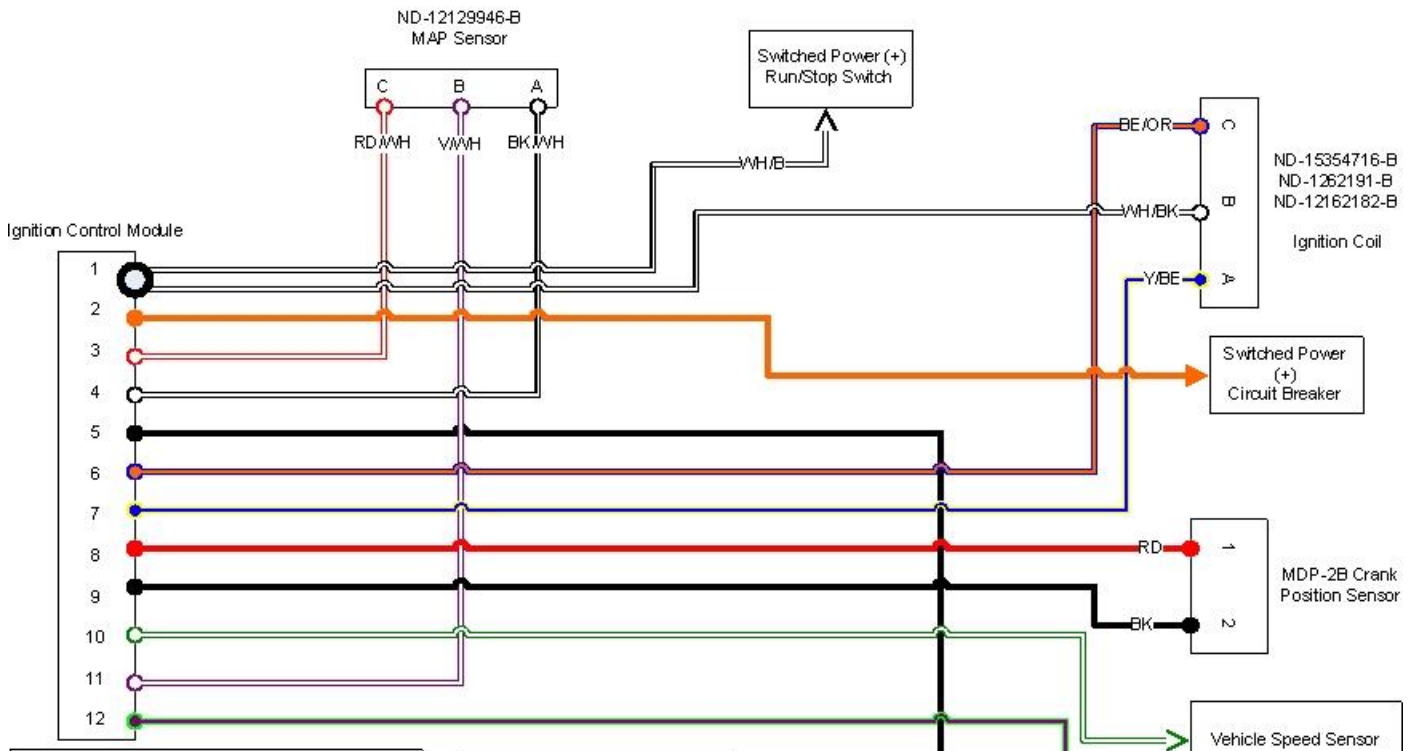
The NSAIH-01 includes all OE factory Coil connections, a three position female Delphi connector, two four position Delphi connectors, and three ring terminals for screw type coils. The coil connection will have 3 wires utilizing the OEM colouring: Blue with an Orange Stripe, White with a Black Stripe, and Yellow with a Blue Stipe. Once you have the wires routed, cut to length and heat shrink installed, strip the wire 3/16” and install the Yellow wire seals if used. Crimp the terminals securely to exposed wire and position wire seal and crimp seal with the insulation. If utilizing ring terminals be sure that the terminals have been crimped properly.

MAPS Sensor

The MAPS Senor connector is a three position female connector with red seals and a lock. The OEM colour coded wire is Red with a White stripe, Violet with a White stripe and Black with a White Stripe. Once you have the wires routed, cut to length and heat shrink installed, strip the wire 3/16” and install the Red wire seals. Crimp the terminals securely to exposed wire and position wire seal and crimp seal with the insulation.

Crank Position Sensor

The Crank Position connector is a two position female Deutsch connector. This connector utilizes the Red and Black wire from position 8 and 9 on the ignition module connector. Once you have the wires routed, cut to length and heat shrink installed, strip the wire 3/16”, crimp the terminals securely to exposed wire, and install the wedge lock.



Provided Materials

MDP-2B Deutsch Mini 2-Position Female With Wedge lock and 2 Terminals

ND-15354716-B 4-Way Female Connector with 4 Female Terminals and 4 Yellow Seals
ND-12162191-B 4-WAY Female Connector with Terminals
ND-12162182-B 3-Way Female Connector

ND-12129946-B 3-Position Female Connector with 3 Female Terminal 3 Green Seals and TPA Lock

3) Ring Terminals

1' x 1/2" Heat Shrink

2' x 1/4" Heat Shrink

4' x 3/16" Heat Shrink

1' x #18 AWG Black Wire

Color Key

RD/WH – Red with White Stripe

V/WH – Violet with White Stripe

BK/WH – Black with White Stripe

BN/GR – Brown with Grey Stripe

WH/BK – White with Black Stripe

BE/OR – Blue with Orange Stripe
Y/BE – Yellow with Blue Stripe

RD – Red

BK – Black

LGN/V – Light Green with Violet Stripe