



### NAMZ CAN/Bus Controller, Part Number: NCBC-B01

- Fits all 2014–Up Dresser Models ONLY.
- The NAMZ CAN/Bus Controller should be installed by experienced and professional technicians at a reputable motorcycle shop or dealership.
- Disconnect the battery FIRST!
- This product is intended for custom use only.

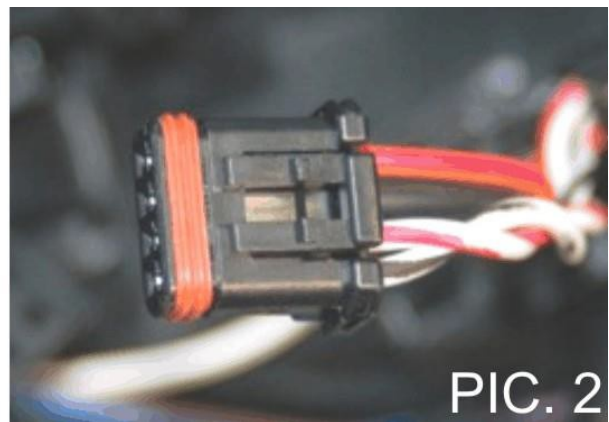
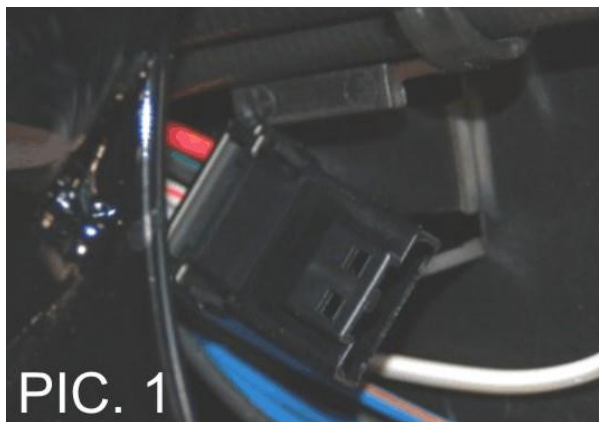
#### OPERATING MODE:

Since the factory began using CAN/Bus technology on all 2011–Up Softail, 2012-Up Dyna and ALL 2014-Up models it has become a challenge for owners to use custom aftermarket handlebar switches and controls. With our NCBC-B01 it is now possible to use any style handlebar switch assembly you choose without any disruption of your factory installed CAN/Bus system.

Once you choose your new switch assemblies and install them along with our NCBC-B01, your new switches will operate the motorcycle just like the factory switches did. Our unit supports clutch lock out, turn signal, horn and high/low beam buttons on the left then brake switch, turn signal, start and kill switch functions on the right side along with infotainment, audio and cruise functions. The NCBC-B01 will also support “parade mode / four-way flasher mode” pressing both turn signal buttons at the same time to turn on and off.

#### INSTALLATION:

The original handlebar switches are linked to the CAN-bus through a cable. BEFORE you disconnect the 4-pin- connectors located under the speedo/nacelle/fairing, make sure to identify which is left and right as this is VERY important. (See pic #1 BIKE SIDE and #2 SWITCH SIDE)



Connect the 4-position female connector of the NCBC-B01 to the **RIGHT SIDE** 4-position male connector (PIC 1) under the speedo/nacelle/fairing. **This harness may not be extended and it is mandatory to use this unmodified connection for proper voltage supply of the NCBC-B01.** The left plug may be left without any connection and should be protected against moisture using electrical tape or heat shrink.

Depending on how you want to configure your switch assemblies, the connection to the NCBC-B01 may vary. On stock models 1996-2006, there are (3) switches on the left and (4) on the right and on 2007-up models, there are (4) on both sides. As explained above, the NCBC-B01 supports the use of the clutch lock out switch (left) and the front brake switch (right). If you don't want to use the “standard” or commonly used buttons for a more custom look, simply cover the unused wires on the NCBC-B01 with tape or supplied heat shrink to prevent an electrical short.

## WIRING SCHEMATIC:

Any combination/configuration of switches you prefer will operate the motorcycle properly as long as the unused wires are taped off or covered in heat shrink. Below, (Figure 1) is a "color" diagram of the wiring supplied on the NCBC-B01. Note that the colors match factory standards as closely as possible. (Switches are based on 2007-up models for reference only.)

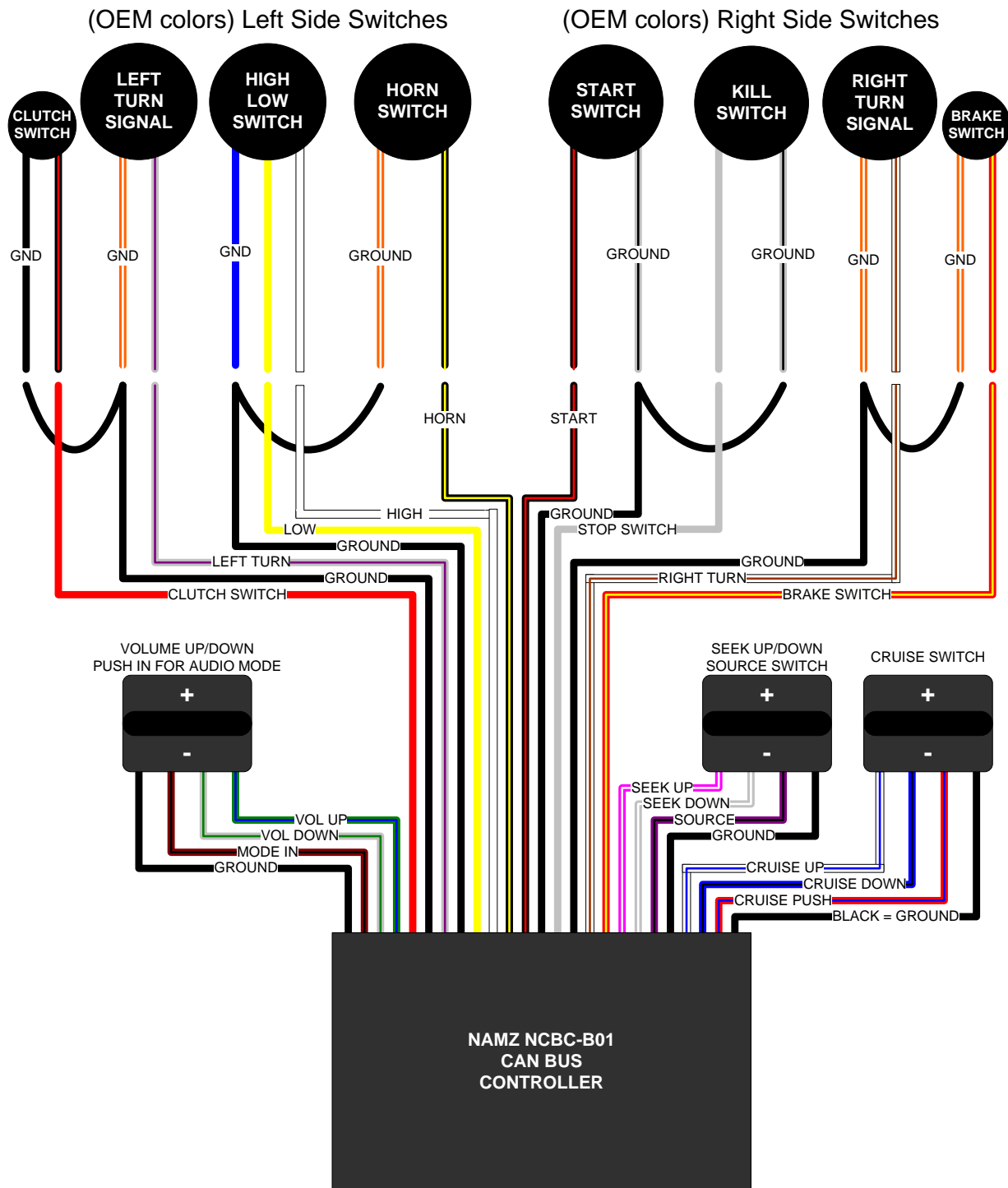


Figure 1

**NOTE! All switches must connect NCBC-B01 inputs to ground. None of the switches should connect +12 V to CAN/Bus Controller input wires!**

**NOTES:** The NCBC-B01 module comes prewired using 2007-Up factory switch wiring colors for easy installation. You can always refer to your OEM service manual for wire color reference as it is the same as these instructions.

**CRUISE CONTROL / AUDIO SWITCHES:** If you want to utilize cruise control, we recommend using a three-function momentary switch, HD OEM part number # 77100-98 or any after-market equivalent. We also recommend using (2) three-function, momentary switches in order to successfully operate the Infotainment System, HD OEM part number # 71618-98, or any after-market equivalent. Both of these switches have 3-positions, (up, down and push in or left, right and push in). If you do not want to utilize the cruise control feature or do not have a factory radio (Road King), simply tape off the cruise/radio wires on the NCBC-B01.

#### **WIRE COLOR LISTING:**

|                                  |                               |
|----------------------------------|-------------------------------|
| Black = (Switch Ground) (Qty. 7) | Red/Yellow = Brake Switch     |
| White/Brown = Right Turn Switch  | Gray = Stop Switch            |
| Black/Red = Start                | Yellow/Black = Horn           |
| Yellow = High Beam               | White = Low Beam              |
| White/Violet = Left Turn Switch  | Red = Clutch                  |
| Green/Blue = Volume UP           | Brown/Black = Audio Mode      |
| Gray/Green = Volume DOWN         | Pink/White = Seek UP          |
| Violet/Black = Source Selection  | Gray/White = Seek DOWN        |
| White/Blue = Cruise Control +    | Blue/Black = Cruise Control – |
| Red/Blue = Cruise Control Push   |                               |

#### **FUNCTIONALITY:**

- **Hazard Light Function:** To activate the hazard light function while using the NCBC-B01 simply press BOTH left and right turn signal buttons at the same time. When you wish to turn off the hazard lights, repeat the same process of pressing both left and right turn signal buttons at the same.
- **Odometer Functions:** To access the odometer functions while using the NCBC-B01 simply push and hold the RIGHT side turn signal button and immediately “double pump” (press twice) the LEFT side turn signal button. Now the left side turn signal button will replicate the odometer button allowing you to cycle through different odometer functions.
- **Infotainment Joystick Functions:** Our CAN/Bus controller is set up to mimic the functionality of the factory joystick controls (when using recommended 3-function audio switches) on 2014-Up dresser models as follows:
  - The left side audio switch will operate volume up and down and pushing in will access audio “mode” ONLY.
  - The right side audio switch will operate “seek” up and down and pushing in will access “source” selection,
  - The right side audio switch will ALSO operate left (by pushing down and holding a little longer than normal) and right (by pushing up and holding a little longer than normal) functionality when navigating through the Infotainment system.

For further technical support, please contact NAMZ Technical Service FIRST at 610-265-7100 or check out our website, [www.namzccp.com](http://www.namzccp.com) for more information. Thank you!