



## GEN4 PRO XTREME System on-line ordering instructions

GEN4 PRO XTREME systems can be ordered on a “a la carte” basis via a step by step on-line order form accessible from the BS3 website. There are two order forms. The first form is used to order initial GEN4 ECU Upgrade Kits (EUK) and new GEN4 PRO XTREME systems. The second form is used by existing GEN4 PRO XTREME customers to order subsequent optional and standard feature upgrades. All orders must be coordinated through a BS3 dealer.

The GEN4 PRO XTREME ECU Upgrade Kit (EUK) allows a current GEN3 PRO SEFI system customer to convert to a new GEN4 PRO XTREME System by replacing their existing GEN3 PRO SEFI ECU with a new GEN4 PRO XTREME ECU with the option of reusing their existing GEN3 PRO SEFI ECU 60-way “primary side” Main Wire and Injector Wire Harnesses as well as some of the GEN3 PRO SEFI ECU 60-way “secondary side” “upgrade kit” harnesses. The GEN3 PRO SEFI ECU 60-way “secondary side” “upgrade kit” harnesses can be reused to a certain extent by relocating the wires in the 30-way Cinch ECU connectors to maintain compatibility with the GEN4 ECU.

The GEN4 PRO XTREME ECU Upgrade Kit (EUK) contains the necessary components to upgrade an existing GEN3 PRO SEFI system to a GEN4 PRO XTREME system. The GEN4 PRO XTREME ECU Upgrade Kit (EUK) includes the following items;

- **GEN4 PRO XTREME ECU** (includes all 120 ECU pins e.g. (2) 60 pin header connectors. This will allow subsequent optional feature upgrades to be ordered online and downloaded to the GEN4 ECU via the Micro SD card without having to return the ECU to BS3).
- **New Bosch LSU4.9 sensor and 6-way replacement connector kit** (The GEN4 ECU is not compatible with the GEN3 system’s “old” Bosch LSU4.2 WBO2 sensor. The GEN3 MWH’s LSU4.2 WBO2 6-way connector must be removed and replaced with the included LSU4.9 WBO2 6-way connector kit).
- **GEN4 BigComm Pro software license**
- **8 GB Micro SD Card with USB Drive Adapter** (Micro SD card is used to obtain subsequent optional feature upgrades online and provides 4 GB external data log RAM storage).
- **5’ CAT6a Shielded Ethernet cable** (Connects between GEN4 PRO XTREME ECU and Wireless Ethernet Router)
- **Wireless Ethernet Router** (Establishes wireless communication between GEN4 PRO XTREME ECU and PC running GEN4 BigComm Pro software.
- **Dual 5V/2.4A USB2.0 Car Charger** (Used to power Wireless Ethernet Router via the vehicle’s 12 VDC power accessory port)

As mentioned, GEN4 PRO XTREME systems can be ordered on a “a la carte” basis via a step by step on-line order form accessible from the BS3 website. The New GEN4 ECU Upgrade Kits (EUK) and new GEN4 PRO XTREME system on-line order form is used for initial orders. The form includes seven steps dependent on the GEN4 PRO XTREME system configuration being ordered.

The following details how to navigate the on-line order form. It may make sense to use these instructions while navigating the GEN4 on-line order form found under the GEN4 PRO XTREME section on the BS3 website. Before proceeding to the step by step instructions, the BS3 Dealer information, at the top of the form must be completed. The required dealer information is self-explanatory and will not be covered in these instructions.

### **STEP 1: Select a GEN4 PRO XTREME – New ECU Upgrade Kit (EUK)**

Step 1 is used to order one of (9) New GEN4 PRO XTREME ECU Upgrade Kit (EUK) options as well as selecting the desired Optional Feature Upgrades. Each New GEN4 PRO XTREME ECU Upgrade Kit includes the contents highlighted above.

For example, if you want to order a New GEN4 PRO XTREME ECU kit to include the minimum BASE/COP/DAI functionality along with (3) Optional Feature Upgrades (OFU) e.g. DAE, SR2.3 and BOOST, you would select GEN4.5 EUK by clicking on the adjacent box. (In the event you inadvertently select the wrong selection box, just click on the box again and it will de-select the box and allow you to select the correct option box. Be sure to select **only one** of the (9) GEN4 EUK options). Once the GEN4.5 EUK box is selected, the form will expand to show (8) Optional Feature Upgrades (OFU) to choose from. It also expands to show the rest of the order form steps. For this example, the DAE, SR2.3 & BOOST boxes need to be selected by clicking on the adjacent boxes. Once selected, click the **Calculate** button to get a running JNET sub-total cost. **Note:** If GEN4.2 EUK is selected in Step 1, the form will default to Step 3 because no additional Optional Feature Upgrades are being ordered.

Below are the (8) GEN4 PRO XTREME Optional Feature Upgrades (OFU) to choose from;

- E85
- SR2.3
- DAE
- DAE2
- 6 STAGE NOS
- 4L60E / 4L80E TRANSMISSION
- BOOST (CO2)
- DAE3

Details for each of the Optional Feature Upgrades (OFU) are covered in the **GEN3 vs GEN4 Summary** sheet and **GEN4 System Configuration Schematic** located on the BS3 website.

### **Optional STEP 2: Select GEN4 PRO XTREME – Optional Feature Upgrade (OFU) Harness and/or Hardware Kit(s)**

Step 2 is optional and is used to order GEN4 PRO XTREME Optional Feature Upgrade (OFU) harnesses and hardware kits to correspond with the Optional Feature Upgrades selected in Step 1.

For this example, since the DAE, SR2.3 & BOOST Optional Feature Upgrades were selected in Step 1, the DAE, SR2.3 & BOOST harness kits and possibly the BOOST Hardware kit (2 CO2 valves and 100 PSI sensor) need to be selected in Step 2 by clicking on the adjacent boxes. Once selected, click the **Calculate** button to get a running JNET sub-total cost.

Please note, some of the GEN3 PRO SEFI ECU 60-way “secondary side” “upgrade kit” harnesses can be reused for the GEN4 ECU Optional Feature Upgrades by relocating the wires in the 30-way Cinch ECU connectors to maintain compatibility with the GEN4 ECU. A Cinch Terminal Removal Kit can be ordered in Step 5 of the online order form. Cinch terminal removal instructions are detailed in the **Cinch connector harness assembly manual** located on the BS3 website. The **GEN3 VS GEN4 Upgrade Harness Pin Out Comparison** sheet located on the BS3 website can be used to identify the GEN3 vs GEN4 ECU pin to pin compatibility. The GEN3 wires need to be relocated in the Cinch 30-way ECU connectors to match the GEN4 ECU pin out.

Please note, the Optional Feature Upgrade (OFU) harness and/or hardware kits can only be ordered as part of a one-time GEN4 PRO XTREME – New ECU Upgrade Kit (EUK).

### **Optional STEP 3: Select GEN4 PRO XTREME – Standard Feature Upgrade (SFU) Harness & Hardware Kit(s)**

Step 3 is optional and is used to order the GEN4 PRO XTREME Standard Feature Upgrade (SFU) harness and hardware kits.

Below, are the (10) GEN4 PRO XTREME Standard Feature Upgrade harness and hardware kits to choose from dependent on how you want to configure the balance of the system;

- Secondary LSU4.9 WBO2
- Primary NTK WBO2
- Secondary NTK WBO2
- 16 INJECTOR (BD41APS3)
- 16 INJECTOR (BD41APS4)
- 16 INJECTOR (BD82APS3)

- 16 INJECTOR (BD82APS4)
- BS3 Touch Screen Dash
- CAN VNET
- CAN UDX

Details for each of the Standard Feature Upgrades (SFU) are covered in the **GEN3 vs GEN4 Summary** sheet and **GEN4 System Configuration Schematic** located on the BS3 website

As was the case in Step 1 & 2, select the desired Standard Feature Upgrade harness and hardware kits by clicking on the adjacent box(es). Once selected, click the **Calculate** button to get a running JNET sub-total cost.

Please note the Standard Feature Upgrade (SFU) harness & hardware kits can only be ordered as part of a one-time GEN4 PRO XTREME – New ECU Upgrade Kit (EUK).

**Optional STEP 4: Select a GEN4 PRO XTREME – Main Wire Harness (MWH) & Injector Wire Harness (IWH) Kit**

Step 4 is optional and is used to order new GEN4 PRO XTREME Main Wire and Injector Wire Harnesses. There are (16) GEN4 PRO XTREME Main Wire & Injector Wire Harness kits to choose from dependent on engine and injector type. All GEN4 PRO XTREME Main Wire and Injector Wire Harnesses will be sold together. They will not be sold separately.

Below, are the GEN4 PRO XTREME Main Wire and Injector Wire Harness kits to choose from;

- BASE MWH & CHEVY EV1 IWH
- BASE MWH & CHEVY EV6 IWH
- BASE MWH & FORD EV1 IWH
- BASE MWH & FORD EV6 IWH
- LS1 MWH & EV1 IWH
- LS1 MWH & EV6 IWH
- LS2/7 MWH & EV1 IWH
- LS2/7 MWH & EV6 IWH
- 4.6/5.4L MOD MWH & EV1 IWH
- 4.6/5.4L MOD MWH & EV6 IWH
- 5.0L COYOTE MWH & EV1 IWH
- 5.0L COYOTE MWH & EV6 IWH
- CHEVY UNIVERSAL COP MWH & EV1 IWH
- CHEVY UNIVERSAL COP MWH & EV6 IWH
- FORD UNIVERSAL COP MWH & EV1 IWH
- FORD UNIVERSAL COP MWH & EV6 IWH

Details for the GEN4 PRO XTREME Main Wire & Injector Wire Harness kits are covered in the **GEN3 vs GEN4 Summary** sheet, **GEN4 System Configuration Schematic** and **GEN4 System Configuration with IO detail** sheet located on the BS3 website

For Step 4, select **only one** of the MWH & IWH kits by clicking on the adjacent box. Once selected, click the **Calculate** button to get a running JNET sub-total cost.

Please note the GEN4 PRO XTREME MWH & IWH kits can only be ordered as part of a one-time GEN4 PRO XTREME – New ECU Upgrade Kit (EUK)

### **Optional STEP 5: Select GEN4 PRO XTREME – Smart Coil on Plug (COP) Harnesses, High Output Coils & Bosch LSU4.9 WBO2 Sensor**

Step 5 is optional and primarily used to order GEN4 PRO XTREME High Output COP harnesses, High Current Output COP harnesses & “Smart” High Output Coils. Step 5 is also used to order Bosch LSU4.9 WBO2 sensor(s) and Cinch Terminal Removal Kit(s).

There are (12) GEN4 PRO XTREME High Output COP & High Current Output COP harnesses to choose from dependent on engine type and coil current level. The High Output COP harnesses can be used on engines up to 1,500 horsepower and the High Current Output COP harnesses are for engines making greater than 1,500 horsepower.

The GEN4 PRO XTREME High Output COP & High Current Output COP harnesses need to be ordered individually and in pairs e.g. High Output COP Chevy (1357) & High Output COP Chevy (2468). Below, are the GEN4 PRO XTREME High Output COP & High Current Output COP harnesses to choose from;

- HIGH OUTPUT COP – CHEVY (1357)
- HIGH OUTPUT COP – CHEVY (2468)
- HIGH OUTPUT COP – CHEVY/BUICK (135)
- HIGH OUTPUT COP – CHEVY/BUICK (246)
- HIGH OUTPUT COP – FORD (1234)
- HIGH OUTPUT COP – FORD (5678)
- HIGH CURRENT OUTPUT COP – CHEVY (1357)
- HIGH CURRENT OUTPUT COP – CHEVY (2468)
- HIGH CURRENT OUTPUT COP – CHEVY/BUICK (135)
- HIGH CURRENT OUTPUT COP – CHEVY/BUICK (246)
- HIGH CURRENT OUTPUT COP – FORD (1234)
- HIGH CURRENT OUTPUT COP – FORD (5678)

Below, are the Smart” High Output Coils, Bosch LSU4.9 WBO2 sensor and Cinch Terminal Removal Kit options to choose from;

- Smart High Output Coils – Set of 8
- Smart High Output Coils – Set of 6

- Bosch LSU4.9 WBO2 Sensor
- Cinch Terminal Removal Kit

Details for the GEN4 PRO XTREME High Output COP & High Current Output COP harnesses are covered in the **GEN3 vs GEN4 Summary** sheet, **GEN4 System Configuration Schematic** and **GEN4 System Configuration with IO detail** sheet located on the BS3 website

For Step 5, select a pair of the High Output COP or High Current Output COP harnesses, e.g. Chevy (1357) & Chevy (2468), a set of (6) or (8) “Smart” High Output Coils, and optional Bosch LSU 4.9 WBO2 sensor and Cinch Terminal Removal kit by clicking on the adjacent boxes. Once selected, click the **Calculate** button to get a running JNET sub-total cost.

Please note the GEN4 PRO XTREME High Output COP & High Current Output COP harnesses and sets of High Output Coils can only be ordered as part of a one-time GEN4 PRO XTREME – New ECU Upgrade Kit (EUK).

### **Optional STEP 6: Select a GEN4 PRO XTREME – Replacement ECU**

Step 6 is optional and used to order a replacement GEN4 PRO XTREME ECU. Step 6 serves the same purpose as Step 1 in that Step 6 is used to select one of nine GEN4 PRO XTREME replacement ECU options and then identify which of the Optional Feature Upgrades are desired.

For example, if you want to order a replacement GEN4 PRO XTREME ECU to include the minimum BASE/COP/DAI functionality along with (3) Optional Feature Upgrades e.g. DAE, SR2.3 and BOOST, you would select GEN4.5 ECU by clicking on the adjacent box. Once the GEN4.5 ECU box is checked, the form will expand to show (8) Optional Feature Upgrades to choose from. For this example, the DAE, SR2.3 & BOOST boxes need to be selected by clicking on the adjacent boxes. Once selected, click the **Calculate** button to get a running JNET sub-total cost. **Note:** If GEN4.2 ECU is selected, the form will not expand because no additional Optional Feature Upgrades are being ordered.

Below are the (8) GEN4 PRO XTREME Replacement ECU Optional Feature Upgrades to choose from;

- E85
- SR2.3
- DAE
- DAE2
- 6 STAGE NOS
- 4L60E / 4L80E TRANSMISSION
- BOOST (CO2)
- DAE3

Details for each of the Optional Feature Upgrade (OFU) are covered in the **GEN3 vs GEN4 Summary** sheet and **GEN4 System Configuration Schematic** located on the BS3 website.

### **Optional STEP 7: Select BIG BAND 4-Ch LSU4.9 WBO2 & 4-Ch Thermocouple (T/C) Module & Harness Kit(s)**

Step 7 is optional and used to order one or two BIG BAND Modules with and without Bosch LSU4.9 WBO2 sensors.

Below, are the (4) BIG BAND 4-Ch LSU4.9 WBO2 & 4-Ch Thermocouple (T/C) Module & Harness Kits to choose from;

- BIG BAND Module & Harness Kit – without LSU4.9 WBO2 Sensors
- BIG BAND Module & Harness Kit – with (4) LSU4.9 WBO2 Sensors
- (2) BIG BAND Module & Harness Kit – without LSU4.9 WBO2 Sensors
- (2) BIG BAND Module & Harness Kit – with (8) LSU4.9 WBO2 Sensors
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Details for each of the BIG BAND Module & Harness Kits are covered in the **GEN3 vs GEN4 Summary** sheet and **GEN4 System Configuration Schematic** located on the BS3 website.

For Step 7, select the desired BIG BAND 4-Ch LSU4.9 WBO2 & 4-Ch Thermocouple (T/C) Module & Harness Kit(s) by clicking on the adjacent box(es). Once selected, click the **Calculate** button to get a running JNET sub-total cost.

The next step is to click on the **Calculate** button adjacent to **JNET Total:** to ensure the Current JNET Sub-Total associated with the last Optional Step is equal to the JNET Total.

For the most part that's it! Hopefully, these instructions were helpful to walk you through the GEN4 PRO XTREME on-line order form. Once the Dealer information and Steps 1 thru 7 are completed, click the **Continue** button at the bottom of the form. If all the Dealer information, at the top of the form, is correctly completed a summary of your GEN4 PRO XTREME order will be displayed.

If any of the required Dealer information is missing, the form will highlight the missing Dealer information with a red box. Please enter the missing information and then click on the **Continue** button again at the bottom of the order form to get a summary of your GEN4 PRO XTREME order.

If the Order Summary looks good, click on the **Confirm Order** button in the lower right-hand corner of the screen. If you want to make any changes to the order, click on the **Back** button in the lower left-hand corner of the screen to get back to the order form to

make your changes. Once you make the necessary changes to the order form, click on the **Confirm Order** button in the lower right-hand corner of the screen.

Once you click the **Confirm Order** button, the following message will appear **“Thank you! Your order form has been successfully submitted. You will receive an order acknowledgement email shortly”**

BS3 will send you an email indicating we have received your GEN4 PRO XTREME order.

The second GEN4 PRO XTREME Optional Feature Upgrade Kit on-line order form is used by existing GEN4 PRO XTREME customers to order subsequent Optional and Standard feature upgrades. It uses the same step by step “a la carte” format as the New GEN4 ECU Upgrade Kit or System online order form. In fact, the two forms are the same except for Step 1.

The following will detail how to navigate the GEN4 PRO XTREME Optional Feature Upgrade Kit on-line order form. It may make sense to use these instructions while navigating the GEN4 order form found under Price List on the BS3 website. Before proceeding to the step by step instructions, the BS3 Dealer information, at the top of the form must be completed. The required dealer information is self-explanatory and will not be covered in these instructions.

### **STEP 1: Select a GEN4 PRO XTREME – Optional Feature Upgrade (OFU)**

Step 1 is used to order subsequent Optional Feature Upgrades by first selecting **one** of (8) GEN4 PRO XTREME Optional Feature Upgrade options and then selecting which of the Optional Feature Upgrades are desired.

For example, if you want to order (3) Optional Feature Upgrades (OFU) e.g. DAE, SR2.3 and BOOST, you would select GEN4.3 OFU by clicking on the adjacent box. (In the event you inadvertently select the wrong selection box, just click on the box again and it will de-select the box and allow you to select the correct option box. Be sure to select **only one** of the (8) GEN4 OFU options). Once the GEN4.3 OFU box is selected, the form will expand to show (8) Optional Feature Upgrades (OFU) to choose from. It also expands to show the rest of the order form steps. For this example, the DAE, SR2.3 & BOOST boxes need to be selected by clicking on the adjacent boxes. Once selected, click the calculate button to get a cost tally.

Below are the (8) GEN4 PRO XTREME Optional Feature Upgrades (OFU) to choose from;

- E85
- SR2.3
- DAE
- DAE2
- 6 STAGE NOS



- 4L60E / 4L80E TRANSMISSION
- BOOST (CO2)
- DAE3

Details for each of the Optional Feature Upgrades (OFU) are covered in the **GEN3 vs GEN4 Summary** sheet and **GEN4 System Configuration Schematic** located on the BS3 website.

**Optional STEPS 2 thru 7** for the GEN4 PRO XTREME Optional Feature Upgrade Kit on-line order form are the same as **Optional STEPS 2 thru 7** for the GEN4 PRO XTREME New GEN4 ECU Upgrade Kit or System on-line order form. Therefore, please refer to the above Optional STEPS 2 thru 7 instructions for the GEN4 PRO XTREME New GEN4 ECU Upgrade Kit or System on-line order form to complete the balance of your order.