**Special Instructions:**

**NOTE:** ESD Requirements are needed from this point on during the build.

1. Open the motherboard PCBA PN BB90-19317 and verify if all parts are included (includes MB, head cover and Red Sata Cable)

2. Open the Intel Processor PN BB10-19316 CPU Chip and Dynatron Fan PN BBEVE15208.
Special Instructions:

1. Carefully unlock, remove & discard CPU cover from Motherboard. Warning: Do Not touch surface of CPU chip area.

2. Carefully install the CPU Chip onto the Motherboard and lock it into place with MB locking mechanism.
**Description OMS:** Assy, BACK- BLAZE, 180TB Storage Pod – Vault (EVGA-PS)

**OMS P/N:** 7400-0260

**Rev.:** A

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**DCR#:** 2708

**Date:** 08-24-15

**Product ID:** BBEVE15184-03

**Operation:** DRAFT # 3

---

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BB90-19317</td>
<td>Motherboard PCBA</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BB90-19315-02</td>
<td>8 GB Memory Cards</td>
<td>4</td>
</tr>
</tbody>
</table>

**Special Instructions:**

1. Verify orientation of CPU chip and lock it into place with MB locking mechanism. (Note the slots of the CPU chip)

2. Install qty 4 PN BB90-19315-02 PCBA (Memory Card) onto motherboard by opening the locks of the blue slots and carefully inserting and pushing the PCBA until the tabs locks the PCBA into place.
### Special Instructions:

1. Move speaker jumper so that it is only in contact with pin 1.

2. Carefully remove the wire from the fan and re-route fan wire so it does not touch the fan. Install fan assembly onto Motherboard using supplier provided hardware.

3. Connect fan wire to location "FAN2" on Motherboard as shown.
**Special Instructions:**

1. Bend tab of head cover & remove tab (included with the Motherboard) to prepare for installation onto the chassis.

2. Apply “EXT” label onto head cover as shown.

3. Carefully install the head cover onto the chassis as shown by inserting bottom side first.
### Special Instructions:

1. Carefully align the Motherboard onto the head cover of the chassis.

2. Secure the motherboard onto chassis using qty 8 PN 43-00099-250 screws.

Note sequence of hardware installation:

1-8
**Special Instructions:**

1. Verify Heat sinks are installed on U1 location on qty 3 PN BB90-14349 SATA Cards.

2. Install qty 3 PN BB90-14349 SATA Cards onto Motherboard slots.


4. Verify pins stick out of the backside of the chassis.
## Special Instructions:

1. Install standoffs onto Hard drive PN BB92-14350 by hand then using needle nose pliers to secure.

2. Install Hard Drive with standoffs onto chassis using Qty 4 PN BBEVE15206.

3. Connect the Red Sata cable (included with MB) from the hard drive to the motherboard (J51 location).
### Special Instructions:

1. Open the Switch Cable Assy PN BB91-12639 and verify O-Ring & supplier provided nut. Remove the supplier provided nut from the Switch Cable Assy.

2. Install the O-Ring first (if not already installed), route the switch cable through chassis, & secure the switch with the nut. Note: O-Ring is on the outside of chassis.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>BB91-12639</td>
<td>Cable Assy, On/Off</td>
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</table>
Special Instructions:

1. Identify and connect the wires from the switch to Motherboard locations as shown in picture:
   - Red single wire (positive) installed on the outer pin of MB.
   - Black single wire (negative) installed on the inner pin of MB.
   - Yellow double wire installed on last pin of MB

2. Re-route switch cable as shown around motherboard.
Description OMS: Assy, BACK- BLAZE, 180TB Storage Pod – Vault (EVGA-PS)

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Item | Part No. | Description | Qty
--- | --- | --- | ---
1 | BB95-15401 | PS, EVGA NEX750G | 1

Special Instructions:

1. Open box of Power Supply Unit PN BB95-15401 and retrieve "MB" cable & "MB" Jumper Connector.

2. Mark on back of the Power Supply the following numbers that correlates to SATA 1-3 & PATA 1-2 using Sharpie Gray Permanent.
Special Instructions:

Install PSU1 Pigtail Cable BB95-15711 and "MB" cable on back of the PS. Ensure each cable connector is inserted into its correct port on back of the power supply as shown in picture. Install the "MB" Jumper Connector to the MB Cable.
<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BB47-12635</td>
<td>PS Vibration Kit</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>NR-PPS-28-0001</td>
<td>Thick Tywrap</td>
<td>2</td>
</tr>
</tbody>
</table>

**Special Instructions:**

1. Install PSU 1 with Dampening Vibration PN BB47-12635 onto chassis using supplier provided screws (4x).
2. Verify Power Supply (PSU1) hardware are hand tightened (Do Not Over-tightened)
3. Route MB Cable and PSU1 Pigtail Cable using Tywrap (2x) as shown in picture.

Note: Color of PS Vibration Dampner may vary
Special Instructions:

1. Open box of Power Supply Unit PN BB95-15401 and retrieve "MB" cable, "SATA" cable, & "CPU1" cable.

2. Mark on back of the Power Supply the following numbers that correlates to SATA 1-3 & PATA 1-2 using Sharpie Gray Permanent.
## Description

**OMS**

**OMS P/N:** 7400-0260

**Rev.:** A

---

### Operation

**Operation:** DRAFT # 3

---

### Special Instructions:

- **Item 1:**
  - **Description:** Install PSU2 Pigtail Cable BB95-15712, "MB" cable, "SATA" Cable & "CPU" Cable on back of the PS. Ensure each cable connector is inserted into its correct port on back of the power supply as shown in picture.
**Special Instructions:**

1. Install PSU 2 with Dampening Vibration PN BB47-12635 onto chassis using supplier provided screws (4x).

2. Verify Power Supply (PSU2) hardware are hand tightened (Do Not Over-tightened)

3. Route “MB” cable, “SATA” cable, & “CPU1” cable of PS and PSU2 Pigtail cable using Tywrap (2x) as shown in picture.

4. Connect the other end of “MB” cable & “CPU1” cable of PS to the 24pin & 8pin connector of the motherboard as shown.

Note: Color of PS Vibration Dampner may vary
Connect the other end of PSU2 “SATA” Cable to the boot drive as shown in picture.
Assy, BACK- BLAZE, 180TB Storage Pod – Vault (EVGA-PS)

1. Special Instructions:
   - Label Qty 6 SATA Cables PN BB91-12638 numerically from “1-6” using blank label PN Z70045 at both ends of the cable as shown in picture.
   - Label Qty 2 Cables PN TBD numerically from “8-9”
   - Label Qty 1 Cable PN TBD number “7”
   - Verify Backplanes have silver tracing on top PCBA (5-connector side)
   - Label Qty 9 PCBA Backplanes PN BB90-12632-01 numerically from “1-9” using blank label PN Z70045 as shown in picture.
**Special Instructions:**

1. **Layout PSU2** Cable Harness onto Backplane Mounting Plate (p/o chassis) as shown in picture. Note: Harness has # label at ends of cable. Harness length from 20” pin connector to mounting plate should be @ 6”.

2. **Layout PSU1** Cable Harness onto Backplane Mounting Plate (p/o chassis) as shown in picture. Note: Harness has # label at ends of cable. Harness length from 24” pin connector to mounting plate should be @ 6”.

---

### Description

**OMS Template:** 7200-0071 Rev. A

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<table>
<thead>
<tr>
<th>Item</th>
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<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>BB95-15602</td>
<td>PS2 Harness, 20 Pin</td>
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<td>Backplane Mtg Plate</td>
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</tbody>
</table>

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![Backplane Mounting Plate Diagram](image-url)

Backplane Mounting Plate

---

OMS Template: 7200-0071 Rev. A
Special Instructions:

Layout SATA Cables 1-9 onto Backplane Mounting Plate as shown in picture.

Note: Curls for SATA Cable #2 – 6 may vary. Ends of SATA Cable connectors to mounting plate should be @ 15".
Item | Part No. | Description | Qty
--- | --- | --- | ---
1 | BB95-15601 | PS1 Harness, 24 Pin | Ref
2 | BB95-15602 | PS2 Harness, 20 Pin | Ref
3 | BB91-12638 | Cable, SATA (40" long) | Ref
4 | TBD | Cable, SATA (20" Long) | Ref
5 | TBD | Cable, SATA (24" Long) | Ref
6 | BB90-12632-01 | PCBA Backplane | Ref
7
8

**Special Instructions:**

1-6  Install the PSU cables and SATA Cable #1-9 on the back of Backplanes #1-9.

Make sure connectors are seated properly.
### Special Instructions:

1. Attach each backplane to chassis backplane plate using qty 5 screws per board. **DO NOT OVERTIGHTEN – HAND TIGHTEN ONLY**

2. **Important:** Absolutely NO Kinking of the SATA Cables
## Description

**OMS OMS:** Assy, BACK- BLAZE, 180TB Storage Pod – Vault (EVGA-PS)

**DCR#** 2708  
**Date:** 08-24-15  
**Product ID:** BBEVE15184-03  
**Operation:** DRAFT # 3

### Special Instructions:

1. Carefully place the Backplane/Mounting Plate Assy onto chassis as shown in picture. Note: Verify all cables are tucked in chassis and no cables are pinched or has any kinks.

2. Secure the Backplane/Mounting Plate Assy from the bottom side of the chassis using (7x) screws.

### Table

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
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<td>Backplane/Mtg Plate Assy</td>
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<td>2</td>
<td>BB43-00182-250</td>
<td>6-32 x ¼, Screw</td>
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### Instructions

- **TQC**
- **Work Content**
- **Verify**
- **Loctite**
- **Grease**

**OMS P/N:** 7400-0253  
**Rev.:** B  
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**evolve MFG. Technologies Inc.**
**Special Instructions:**

1. Connect PSU1 Pigtail Cable connector to PSU1 Cable Harness connector (24pin) and route cable as shown in picture.

2. Connect PSU2 Pigtail Cable connector to PSU2 Cable Harness connector (20pin) and route cable as shown in picture.
### Special Instructions:

1. Route the SATA Cables #1-9 on the chassis as shown in picture and securing SATA Cables #1, 2, 4, 7 & 8 using (1) tywrap.

2. Note: SATA Cables #1, 2, 4, 7 & 8 should be routed between pins on the motherboard as shown in picture.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
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<td>Z31063</td>
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</table>

**Special Instructions:**

Apply "4TB" Label & "Serial Number/Part Number" Label onto the front of the chassis as shown.
## Special Instructions:

1-4. Connect the SATA Cables 1-9 to the SATA Cards as shown in picture. See configuration.

5. Verify each SATA cable are connected to each SATA Card as shown in picture.

Curl up all SATA Cables as shown in picture.

**Important:** Absolutely NO Kinking of the SATA Cables and provide enough “slack” so that the cables are NOT too tight.
### Special Instructions:

1. **Install (3) Fans onto the Fan Bracket (part of Chassis) as shown in picture using (12x) supplier provided hardware.**

2. **Cut ½” Thick Foam to approximately 16.5” in length. Apply ½” x 16.5” long Thick Foam underneath Fan Bracket As shown in picture.**

3. **Verify the 3 fan assemblies are orientated as shown with supplier logo facing outward.**
**Special Instructions:**

Carefully install the Fan Bracket Assy into the chassis as shown in picture using (2) screws.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>N/A</td>
<td>Fan Bracket Assy</td>
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<td>2</td>
<td>BB43-00182-250</td>
<td>6-32 x ¼, Screw</td>
<td>2</td>
</tr>
</tbody>
</table>

**TQC**
- Torque

**Work Content**
- Loctite

**Verify**
- Grease
Special Instructions:

1. Connect the (3) Fans Cables to the motherboard.
2. Route fan wires underneath all 3 fans

Right Fan ➔ Fan A
Middle Fan ➔ Fan 3
Left Fan ➔ Fan 1
Special Instructions:

1-2 Install 6 drive guides onto chassis as shown in picture using (24x) screws on both sides of the chassis..
**Special Instructions:**

1. Cut to length Foam (18x) at 5.5” length strip.

   Apply foam to specified location of 9 drive lids as shown in picture.

2. Install 9 Drive lids onto chassis as shown in picture.

   Note: The outer (2) Drive Lids are PN TBD.
**Description OMS:** Assortment, BACK- BLAZE, 180TB Storage Pod – Vault (EVGA-PS)

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### Special Instructions:

1. Install the Front Panel Cover to the chassis using qty 7 PN BB43-00182-250.

   **Unit is ready for Test**

   Note: Covers of Chassis will be installed after test is completed.

### Table

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
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<td>Front Panel Cover</td>
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<td>2</td>
<td>BB43-00182-250</td>
<td>6-32 x ¼, Screw</td>
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</table>

**TQC**  
**Work Content**  
**Verify**

- Torque
- Loctite
- Grease
### Special Instructions:

1. Install Top Front Cover onto the chassis assy using provided thumbscrews.

2. Install Top Back Cover onto the chassis assy using provided thumbscrews.

Unit is ready for Packaging

---

**Item** | **Part No.** | **Description** | **Qty**
--- | --- | --- | ---
1 | BB56-19813 | Cover Top Front (p/o chassis) Ref | 1
2 | BB56-19814 | Cover Top Back (p/o chassis) Ref | 2