evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

TQC **Torque**

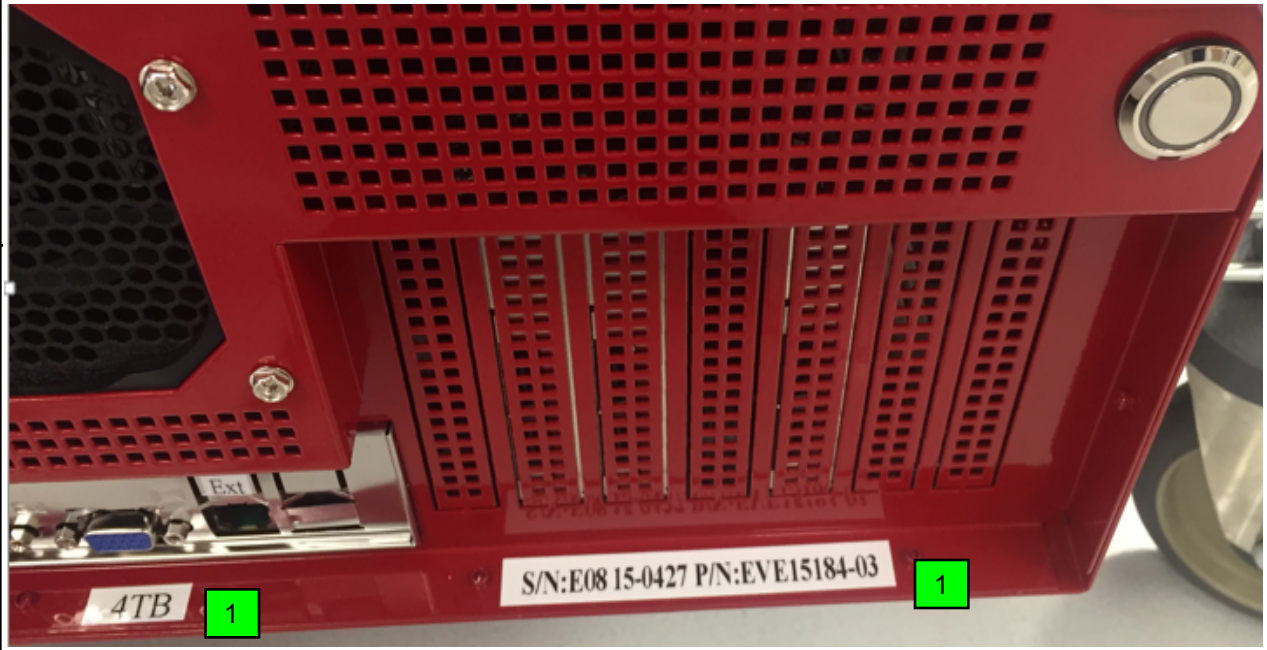
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	NA	P-Touch Labels	2
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

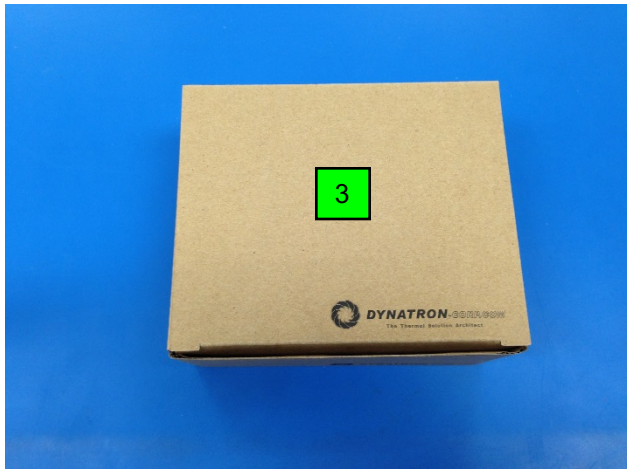
1 Apply "4TB" Label & "Serial Number/Part Number" Label onto the front of the chassis as shown.

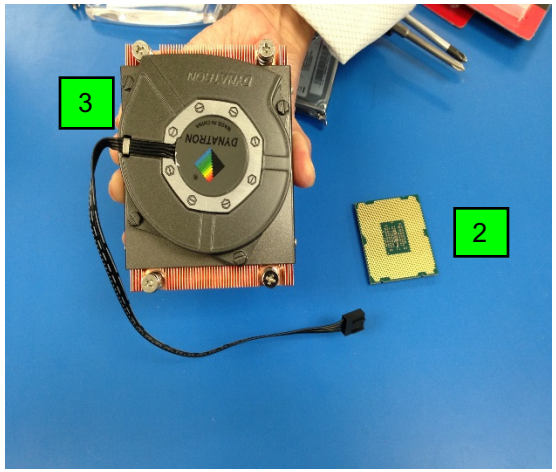


evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
		Page: 2 of 36	
DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BB90-19317	Motherboard PCBA	1
2	BB10-19316	Intel Processor Chip	1
3	BBEVE15208	Dynatron R13 CPU Fan	1
4			
5			
6			
7			
8			





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.

evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

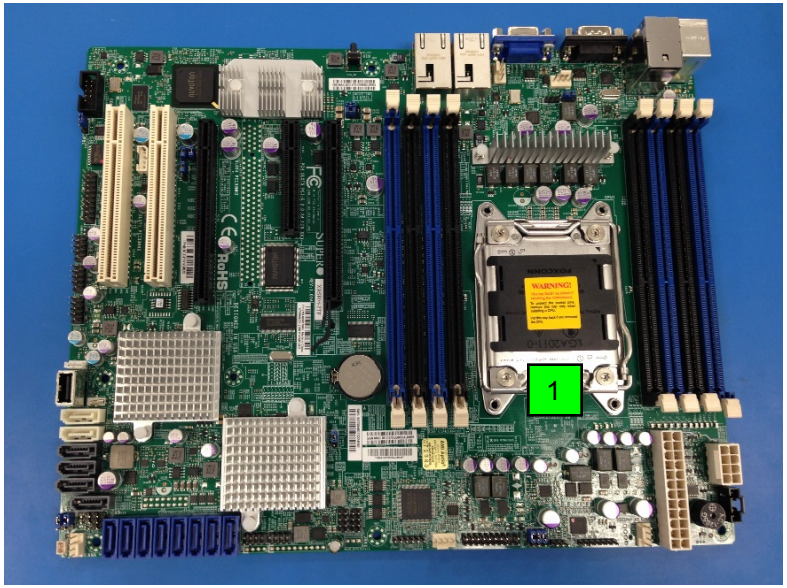
Verify **Grease**

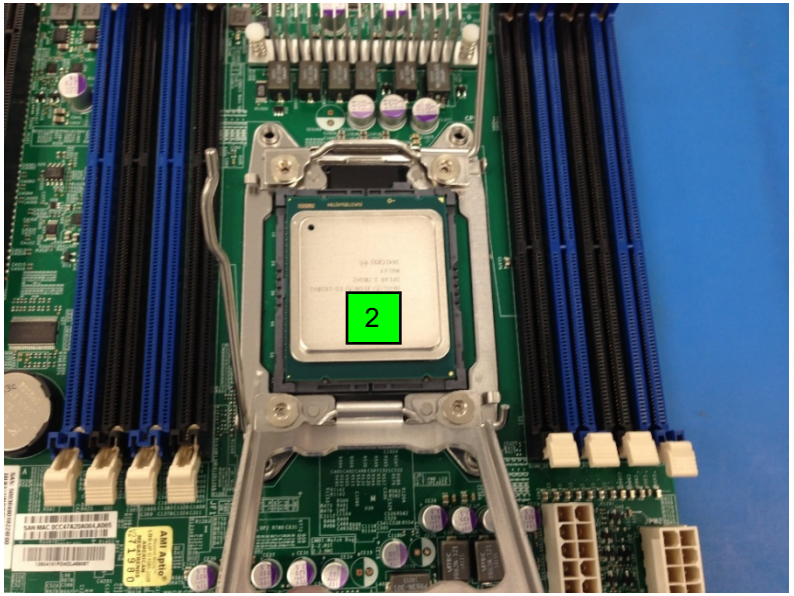
Item	Part No.	Description	Qty
1	BB90-19317	Motherboard PCBA	Ref
2	BB10-19316	Intel Processor Chip	Ref
3			
4			
5			
6			
7			
8			

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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

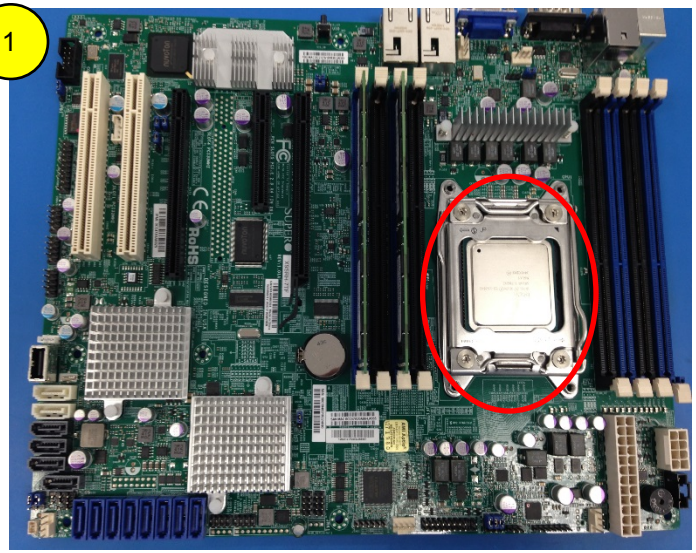
Verify **Grease**

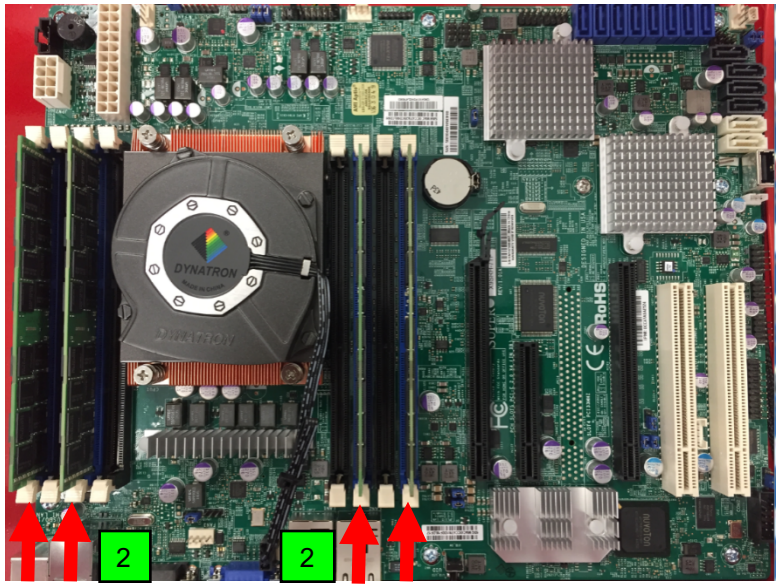
Item	Part No.	Description	Qty
1	BB90-19317	Motherboard PCBA	Ref
2	BB90-19315-02	8 GB Memory Cards	4
3			
4			
5			
6			
7			
8			

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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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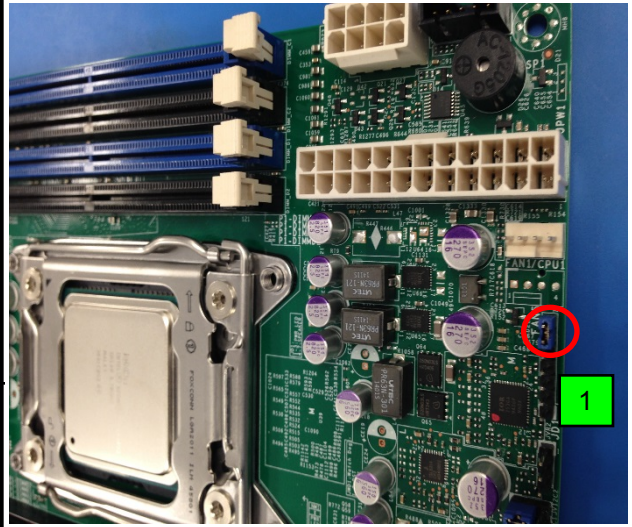
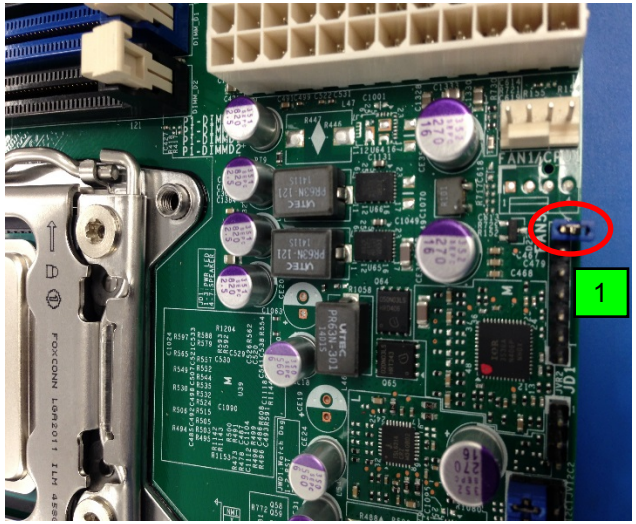
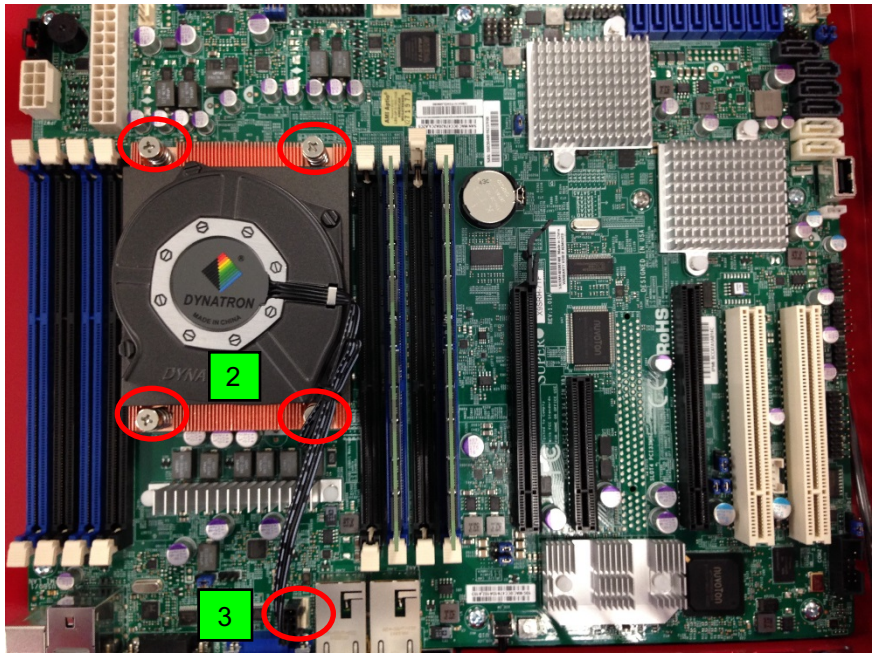
DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BB90-19317	Motherboard PCBA	Ref
2			
3			
4			
5			
6			
7			
8			







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.

evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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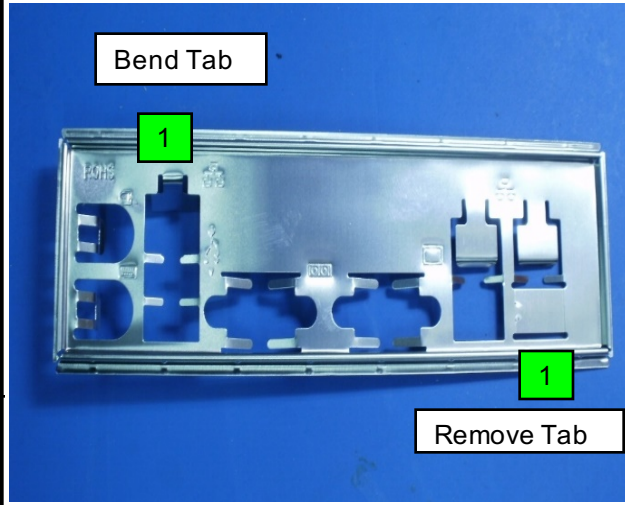
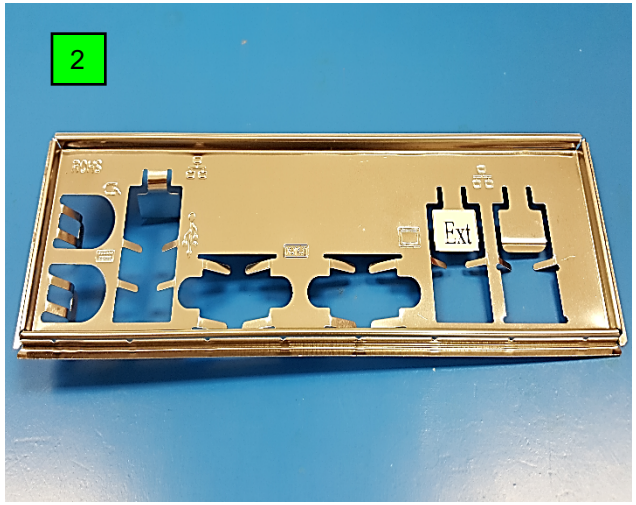
TQC **Torque**

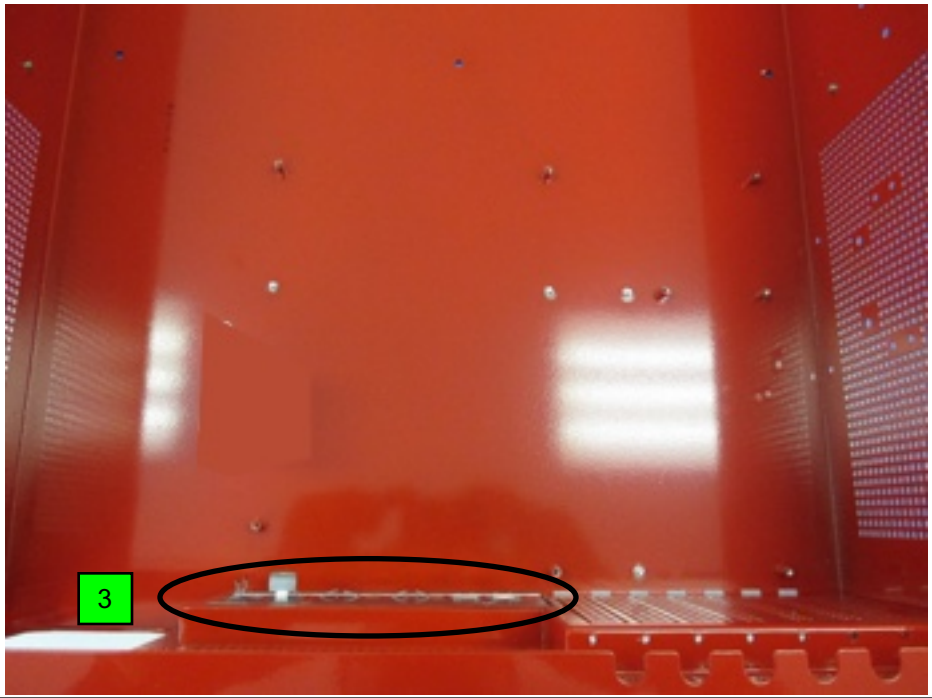
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	NA	Head Cover (from MB)	Ref
2	NA	P-Touch Label	1
3	BBEVE252300	Main Chassis	1
4			
5			
6			
7			
8			







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.

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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BB90-19317	Motherboard	Ref
2	BB43-00099-250	Screw, 6-32x1/4	8
3			
4			
5			
6			
7			
8			

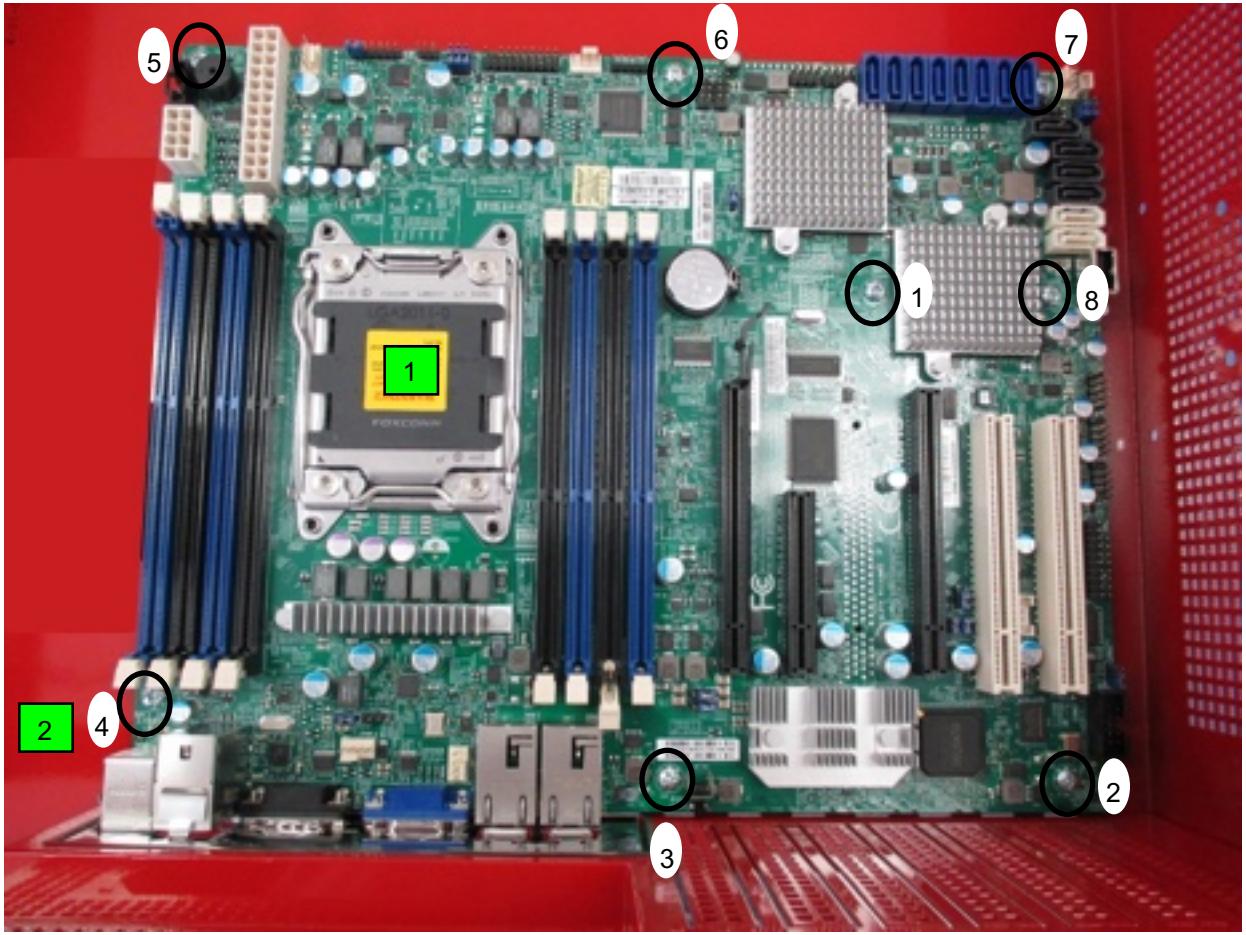
Special Instructions:

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



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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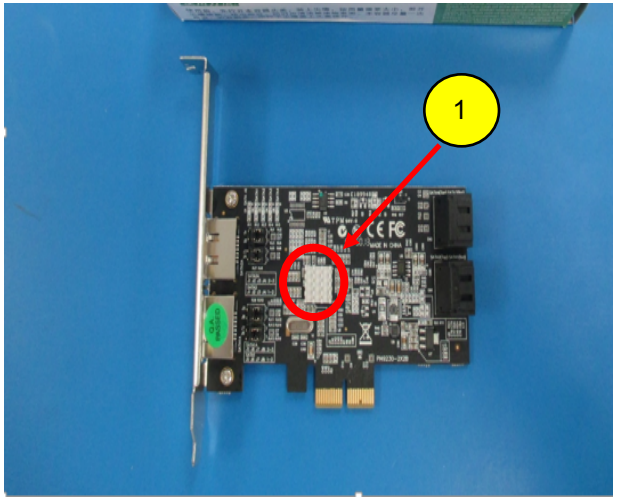
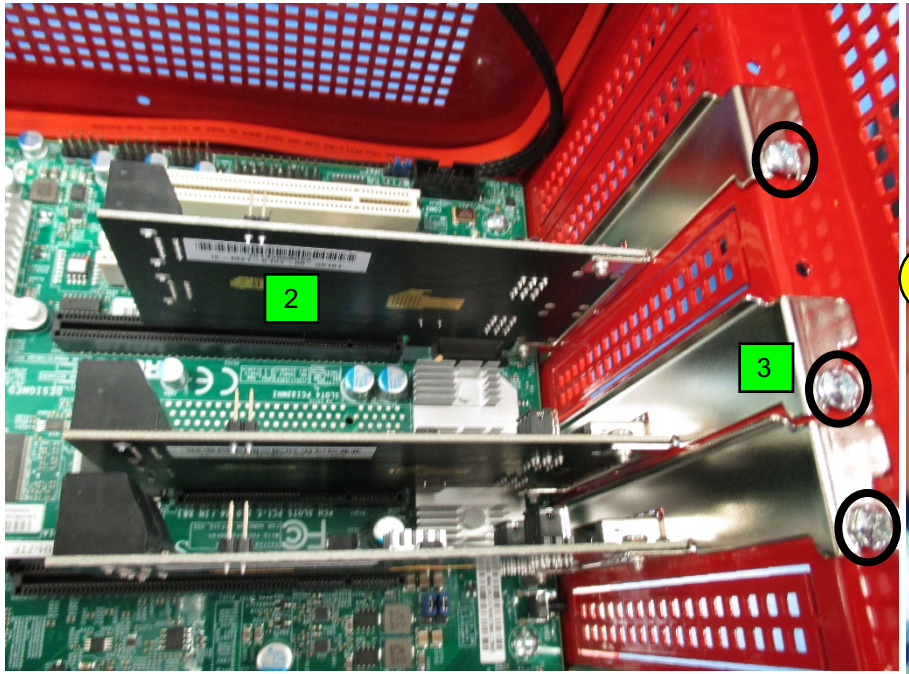
TQC **Torque**

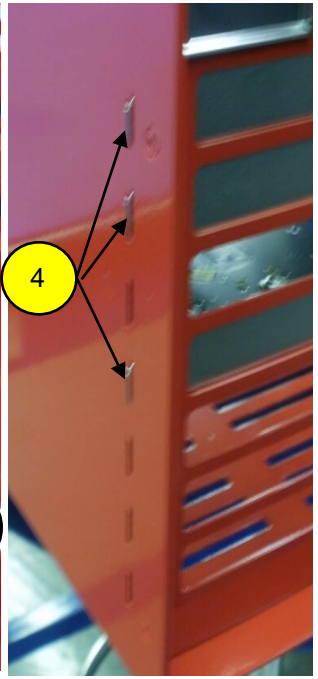
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BB90-14349	SATA Cards	3
2	BB43-00099-250	Screw, 6-32x1/4	3
3			
4			
5			
6			
7			
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.
3. Secure onto chassis using Qty 3 PN BB43-00099-250 Screw.
4. Verify pins stick out of the backside of the chassis

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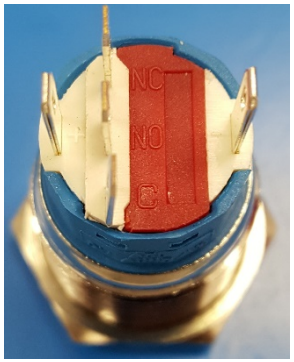
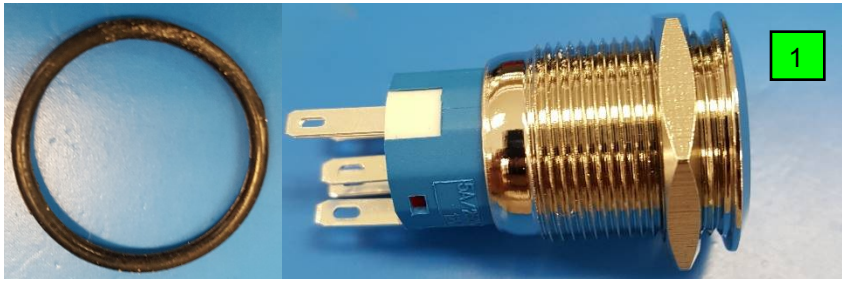
TQC **Torque**

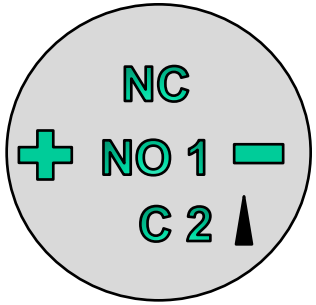
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BB91-12639	Cable Assy, On/Off	1
2			
3			
4			
5			
6			
7			
8			







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.

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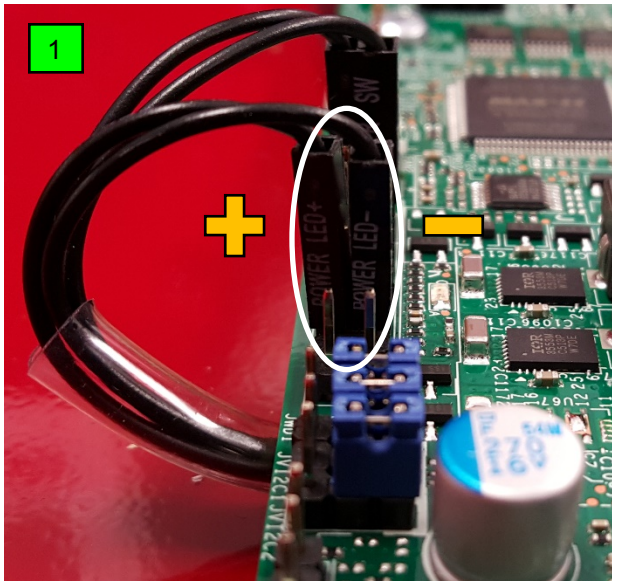
TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BB91-12639	Cable Assy, On/Off	Ref
2	BB90-19317	Motherboard PCBA	Ref
3			
4			
5			
6			
7			
8			



Special Instructions:

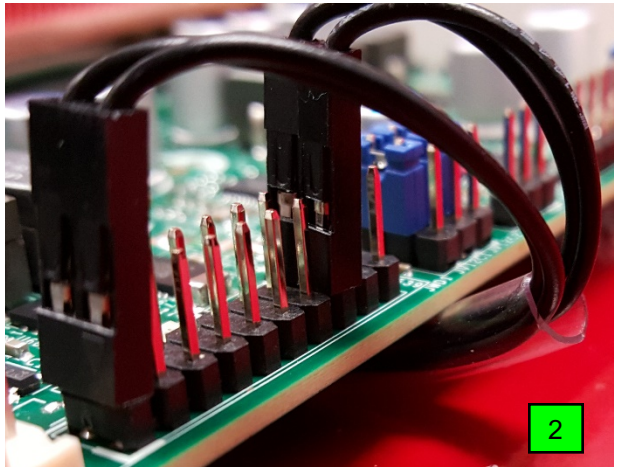
1 Identify and connect the wires from the switch to Motherboard locations as shown in picture:

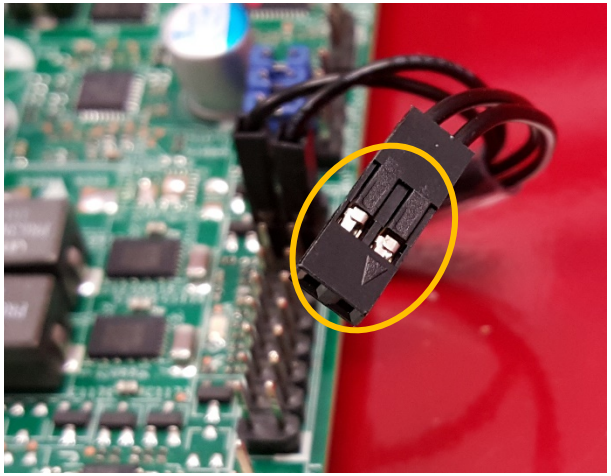
Red single wire (positive) installed on the outer pin of MB.

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.





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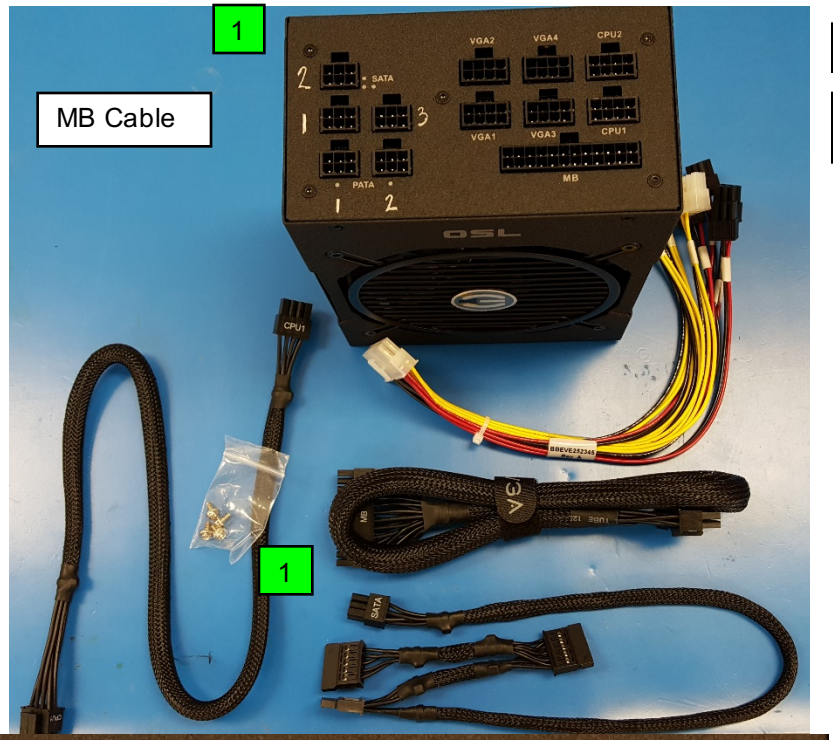
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BB95-15401	PS, EVGA NEX750G	1
2			
3			
4			
5			
6			
7			
8			

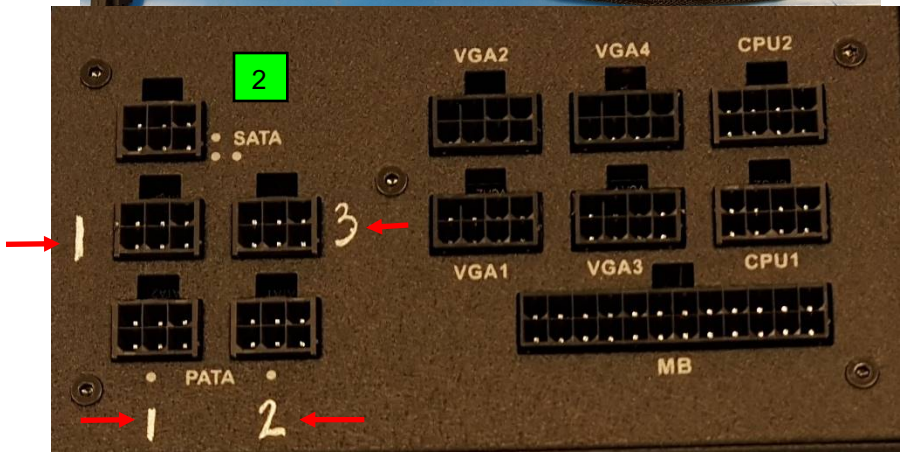
Special Instructions:

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.



1 “MB” Jumper Connector



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TQC **Torque**

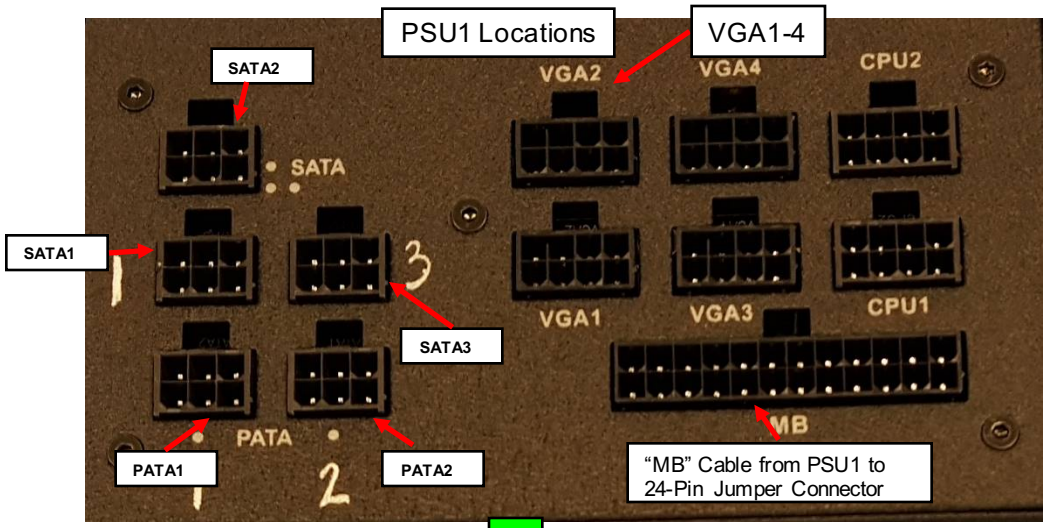
Work Content **Loctite**

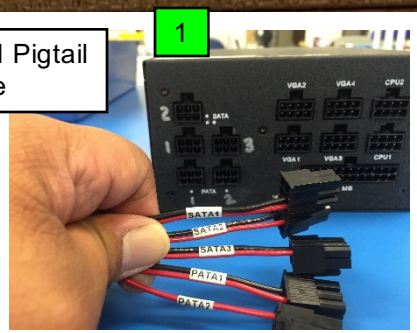
Verify **Grease**

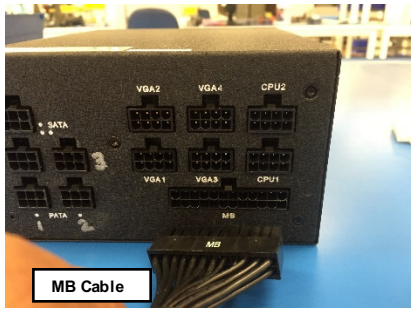
Item	Part No.	Description	Qty
1	BBEVE252345	PS Pigtail, EVGA	1
2			
3			
4			
5			
6			
7			
8			

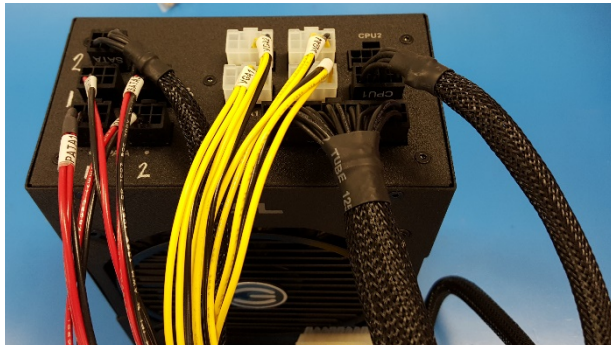
Special Instructions:

1 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.









evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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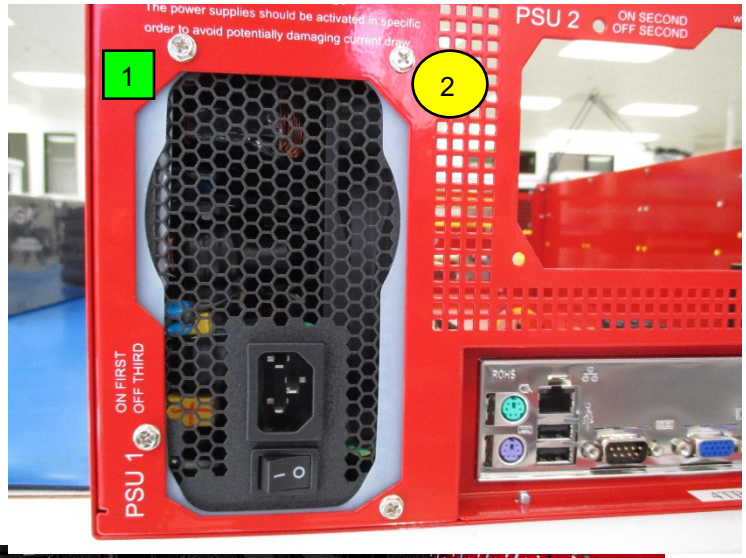
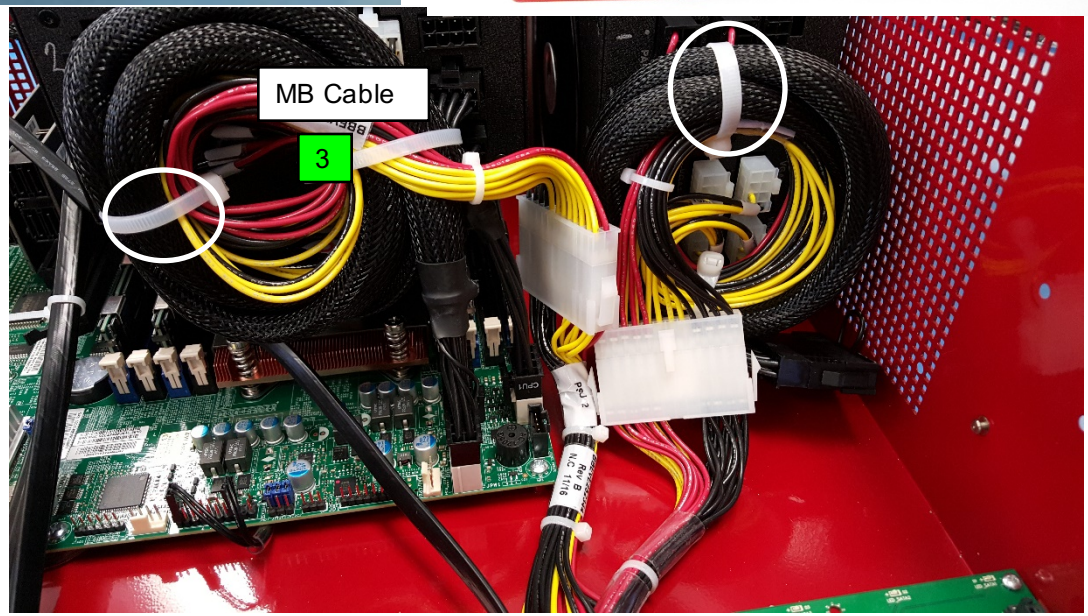
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BB47-12635	PS Vibration Kit	1
2	NR-PPS-28-0001	Thick Tywrap	2
3			
4			
5			
6			
7			
8			

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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

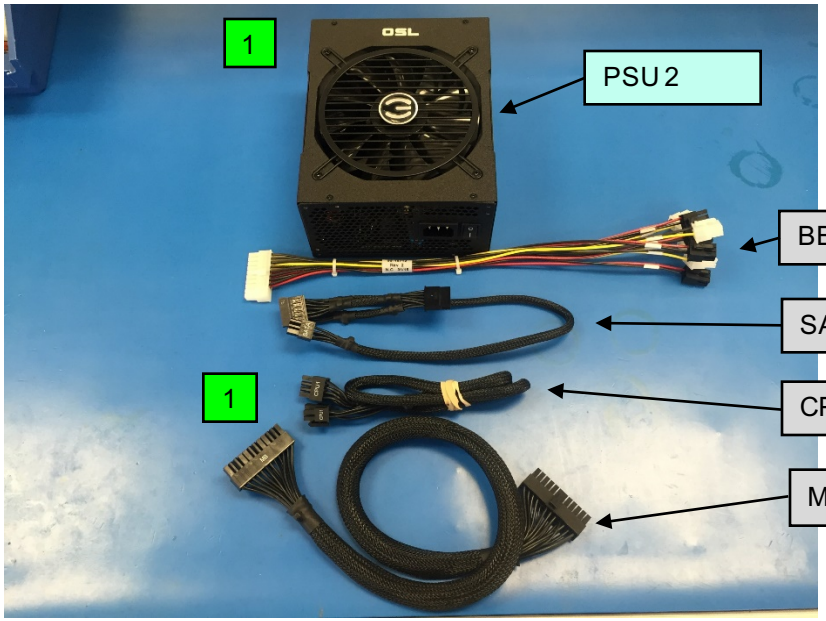
Verify **Grease**

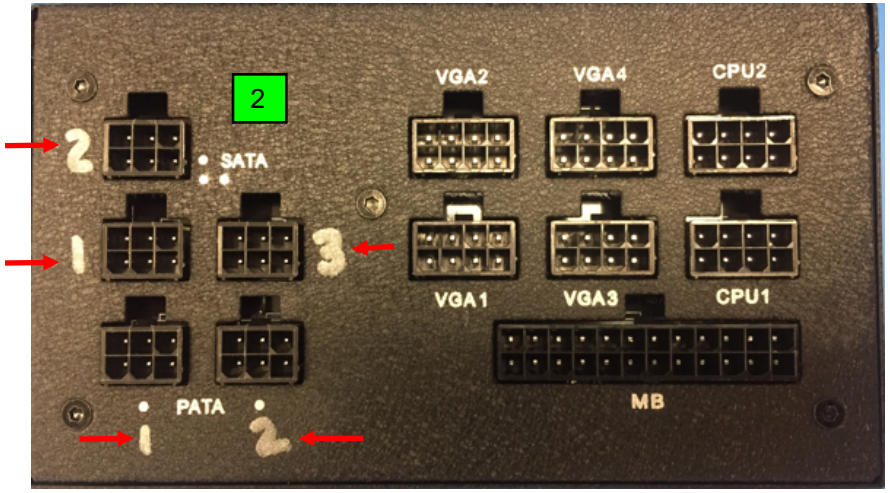
Item	Part No.	Description	Qty
1	BB95-15401	PS, EVGA NEX750G	1
2	BBEVE252345	Pigtail 24 pin	1
3			
4			
5			
6			
7			
8			

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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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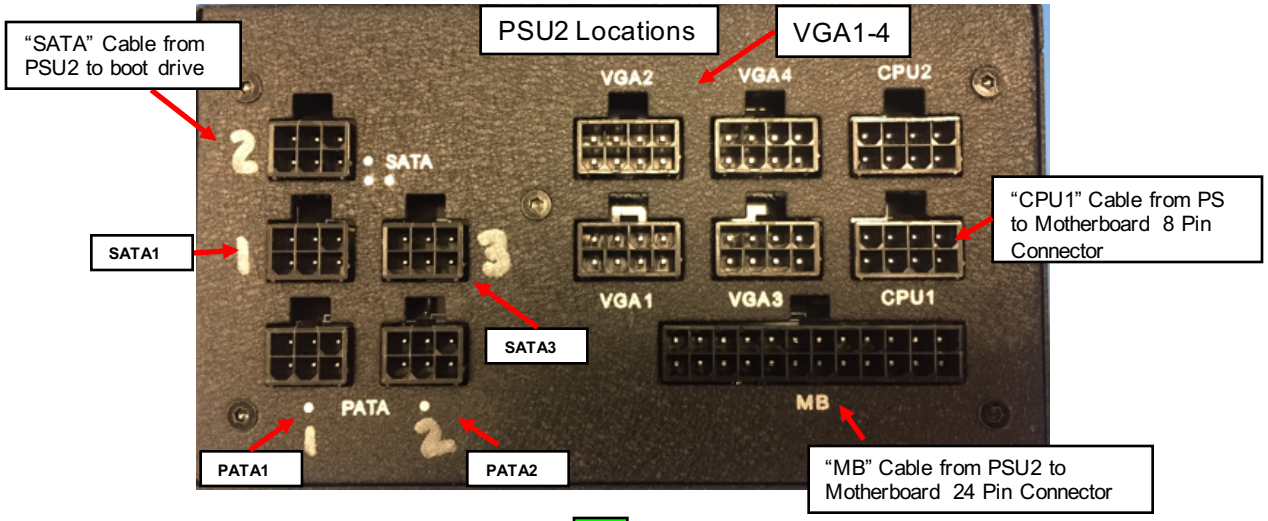
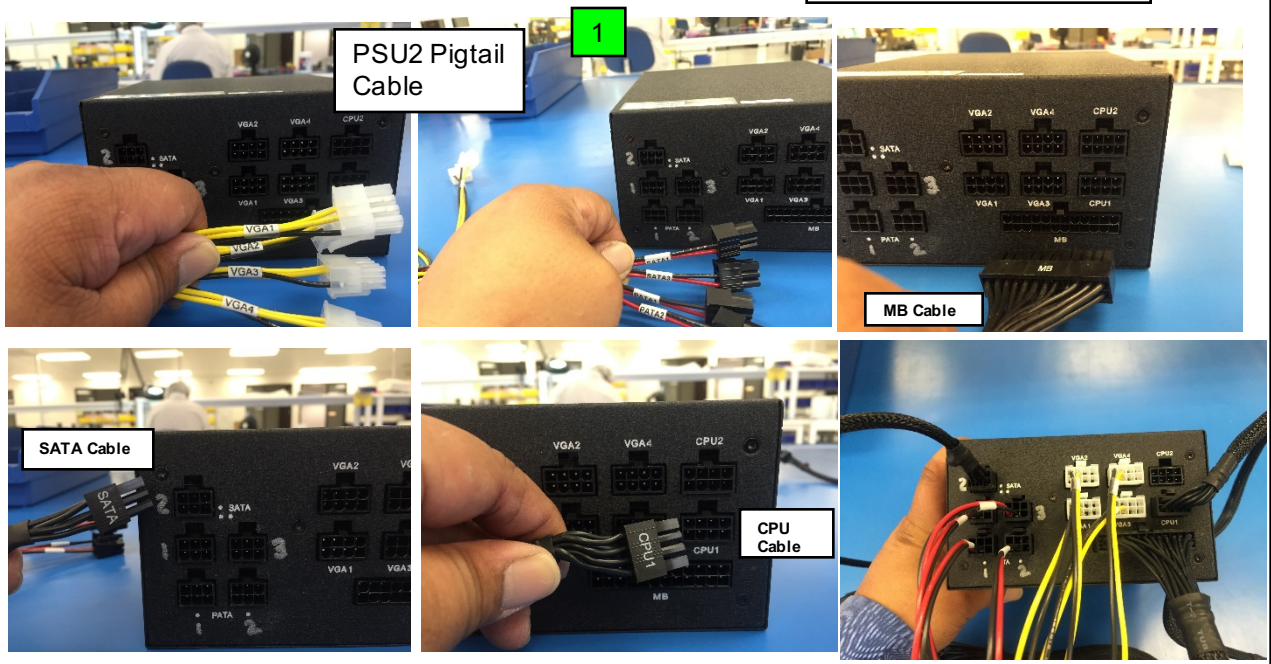
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BBEVE252345	PS Pigtail, EVGA	1
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Install PSU Pigtail Cable BBEVE252345, "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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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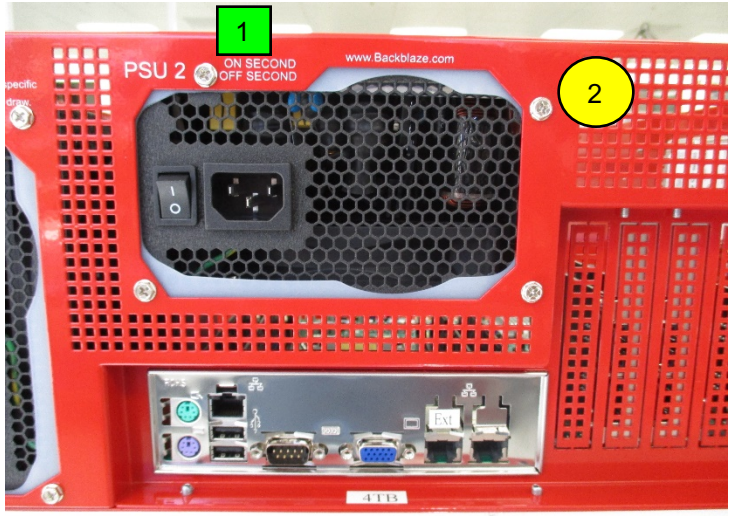
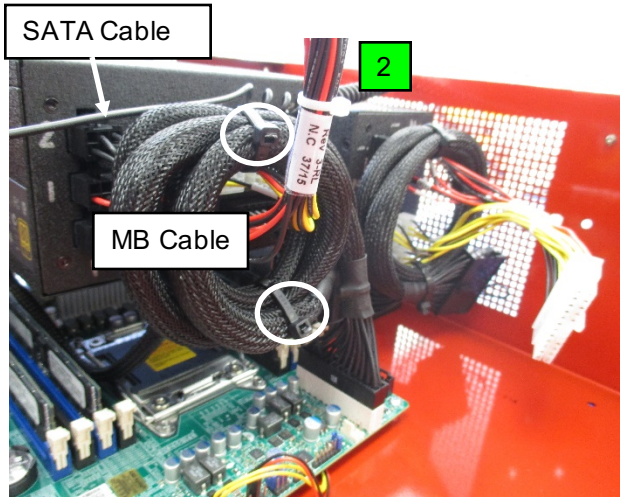
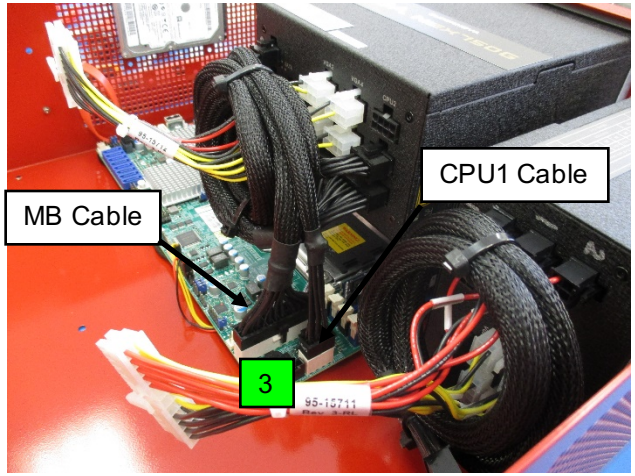
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BB47-12635	PS Vibration Kit	1
2	BBEVE252345	PS Pigtail	Ref
3	NR-PPS-28-0001	Thick Tywrap	2
4			
5			
6			
7			
8			







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)
2. Route "MB" cable, "SATA" cable, & "CPU1" cable of PS and PSU2 Pigtail cable using Tywrap (2x) as shown in picture.
3. Connect the other end of "MB" cable & "CPU1" cable of PS to the 24pin & 8pin connector of the motherboard as shown.

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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	Z70045	Blank Label	27
2	BB91-12638	Cable, SATA (40" long)	12
3	BB90-12632-01	PCBA Backplanes	12
4			
5			
6			
7			
8			

Special Instructions:

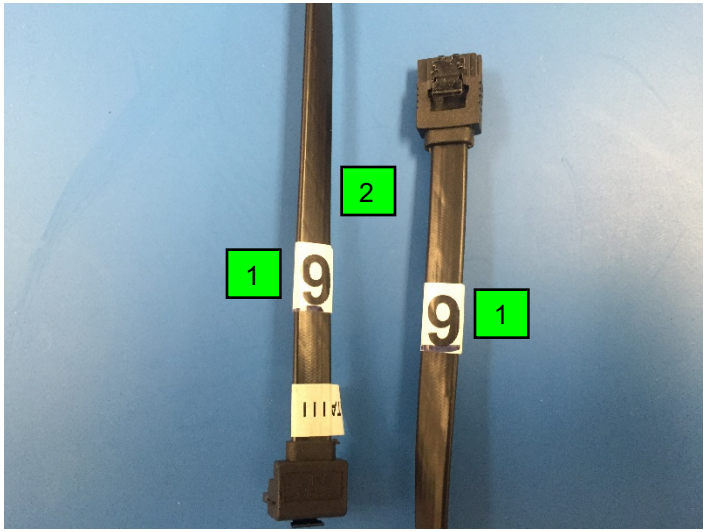
1-2 Label Qty 6 SATA Cables PN BB91-12638 numerically from "1-6" using blank label PN Z70045 at both ends of the cable as shown in picture.

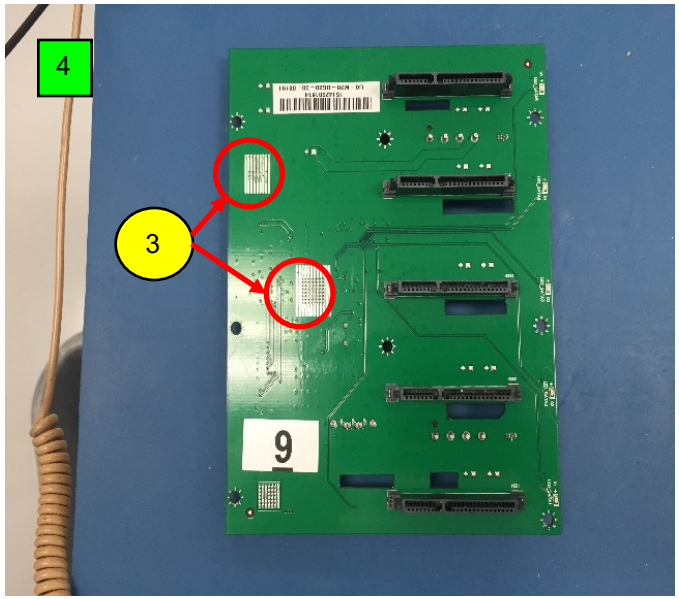
Label Qty 2 Cables PN TBD numerically from "8-9"

Label Qty 1 Cable PN TBD number "7"

3 Verify Backplanes have silver tracing on top PCBA (5-connector side)

4 Label Qty 12 PCBA Backplanes PN BB90-12632 numerically from "1-12" using blank label PN Z70045 as shown in picture .





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

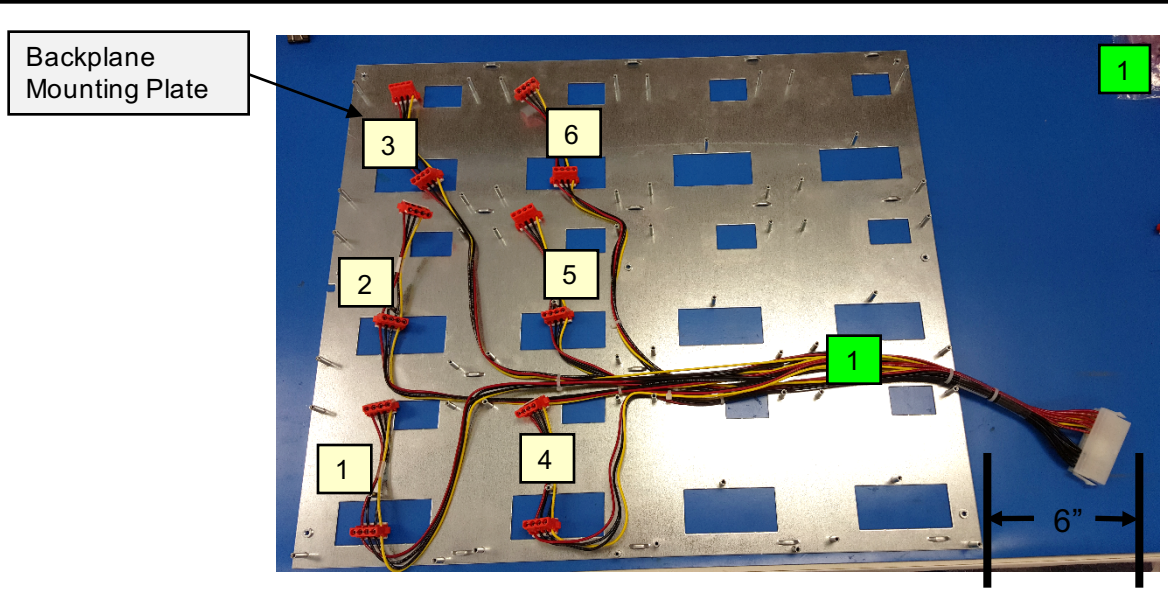
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BBEVE252344	PS2 Harness, 24 Pin	1
2	BBEVE252343	PS1 Harness, 24 Pin	1
3	BBEVE25292	Backplane Tray	1
4			
5			
6			
7			
8			

Special Instructions:

1 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".



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1			
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Layout SATA Cable Harness onto Backplane Mounting Plate (p/o chassis) as shown in picture.

evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

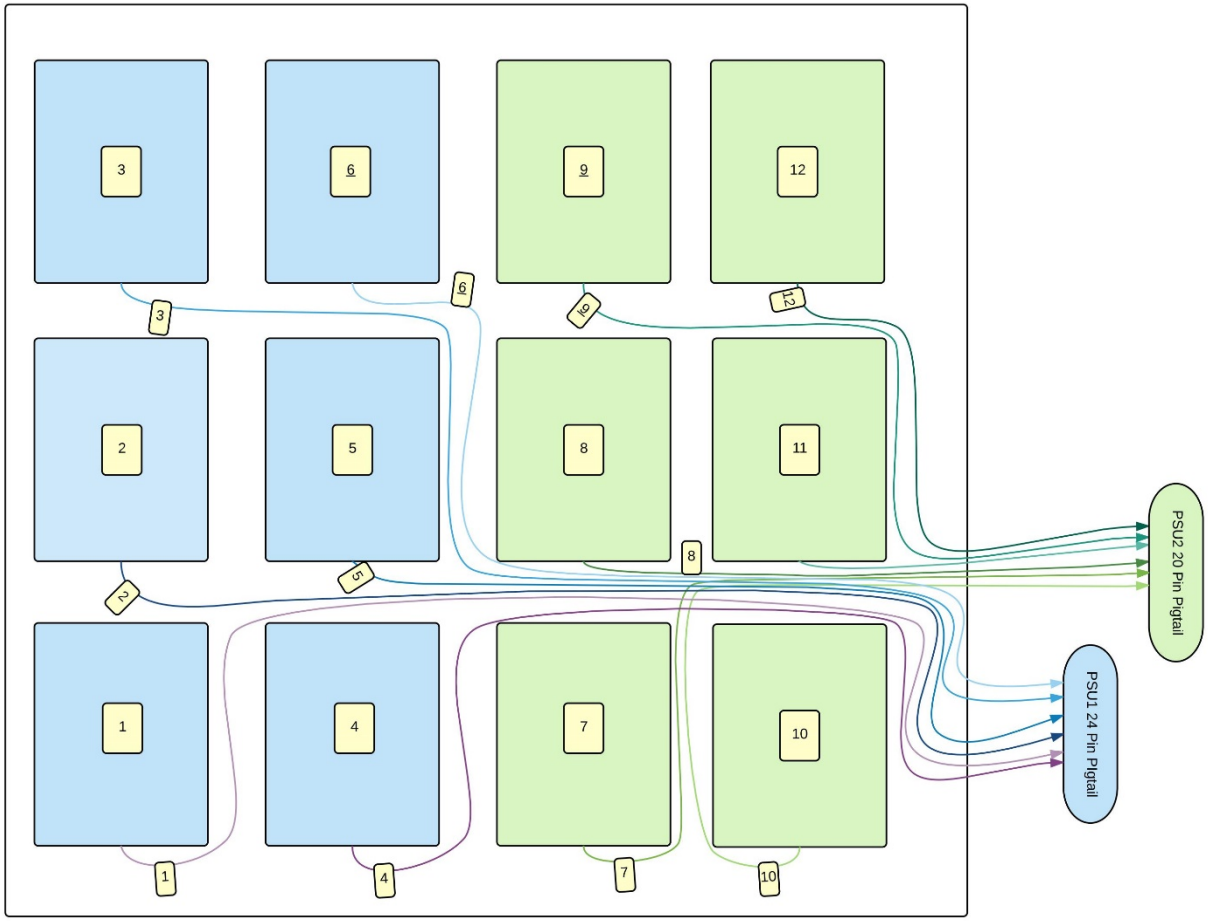
Verify **Grease**

Item	Part No.	Description	Qty
1			
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Layout Power Cable Harness onto Backplane Mounting Plate (p/o chassis) as shown in picture.

6.0 Chassis Power Cable Routing



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

TQC — **Torque**

Work Content — **Loctite**

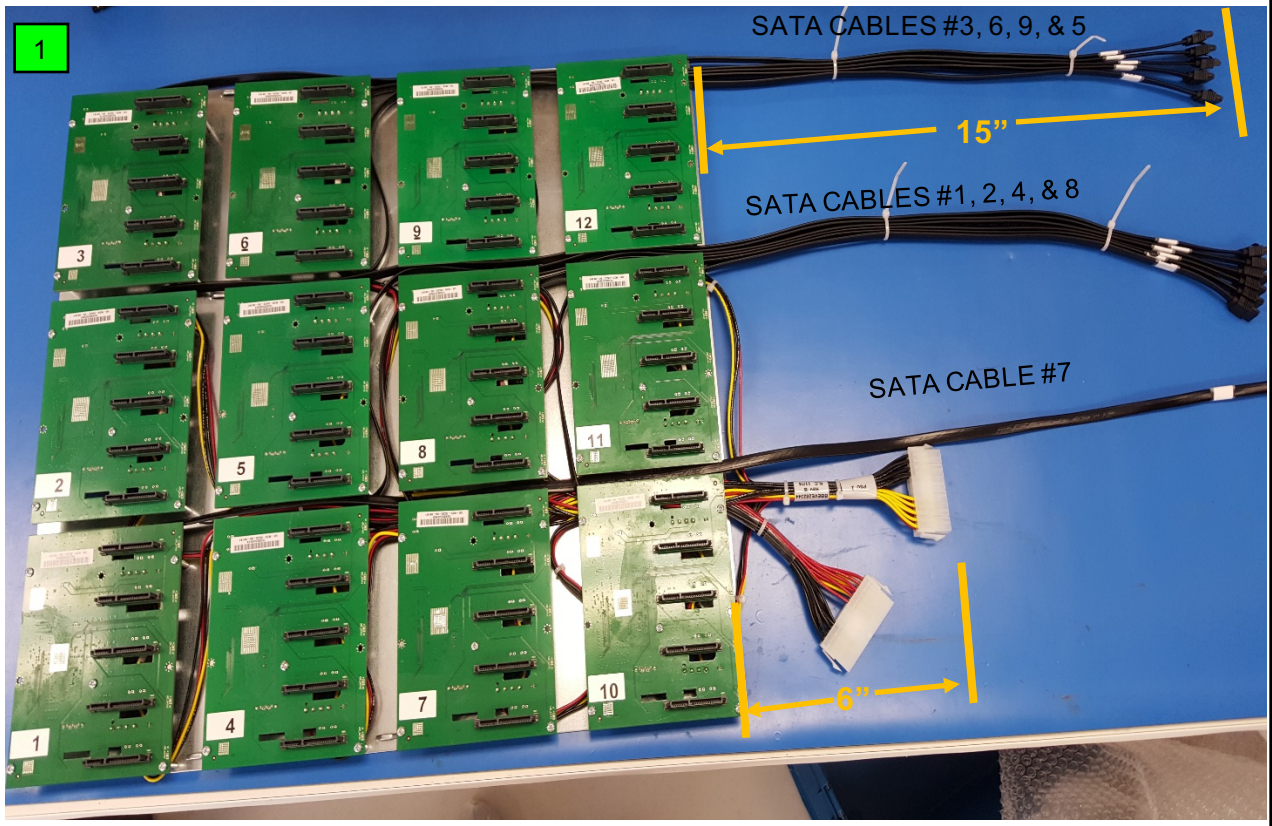
Verify — **Grease**

Item	Part No.	Description	Qty
1	BB91-12638	Cable, SATA (40" long)	Ref
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Layout SATA Cables 1-12 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".



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

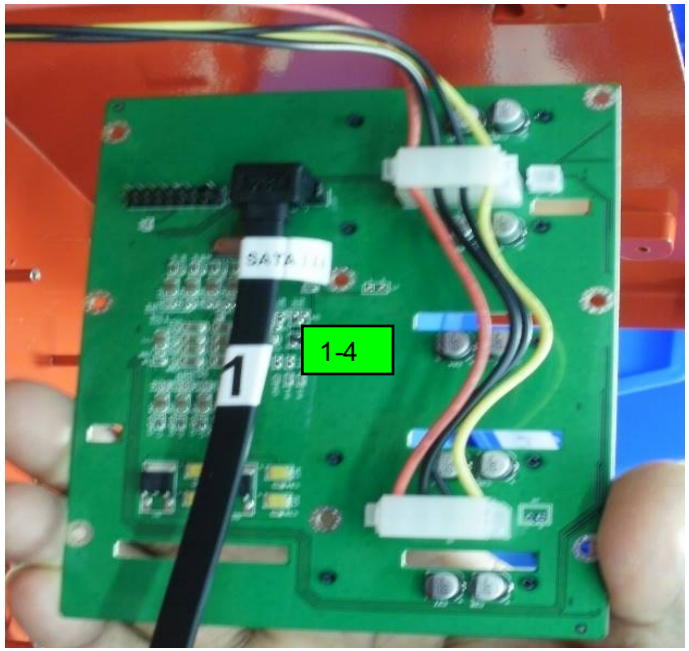
Verify **Grease**

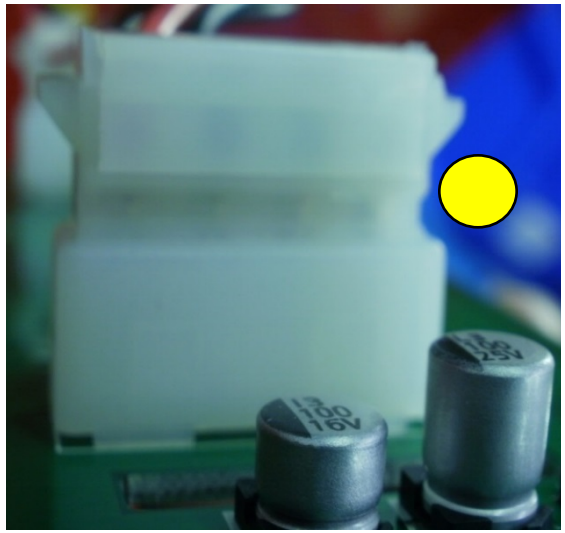
Item	Part No.	Description	Qty
1	BB95-15601	PS1 Harness, 24 Pin	Ref
2	BB95-15602	PS2 Harness, 24 Pin	Ref
3	BB91-12638	Cable, SATA (40" long)	Ref
4	BB90-12632-01	PCBA Backplane	Ref
5			
6			
7			
8			

Special Instructions:

1-4 Install the PSU cables and SATA Cable #1-12 on the back of Backplanes #1-12.

Make sure connectors are seated properly.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

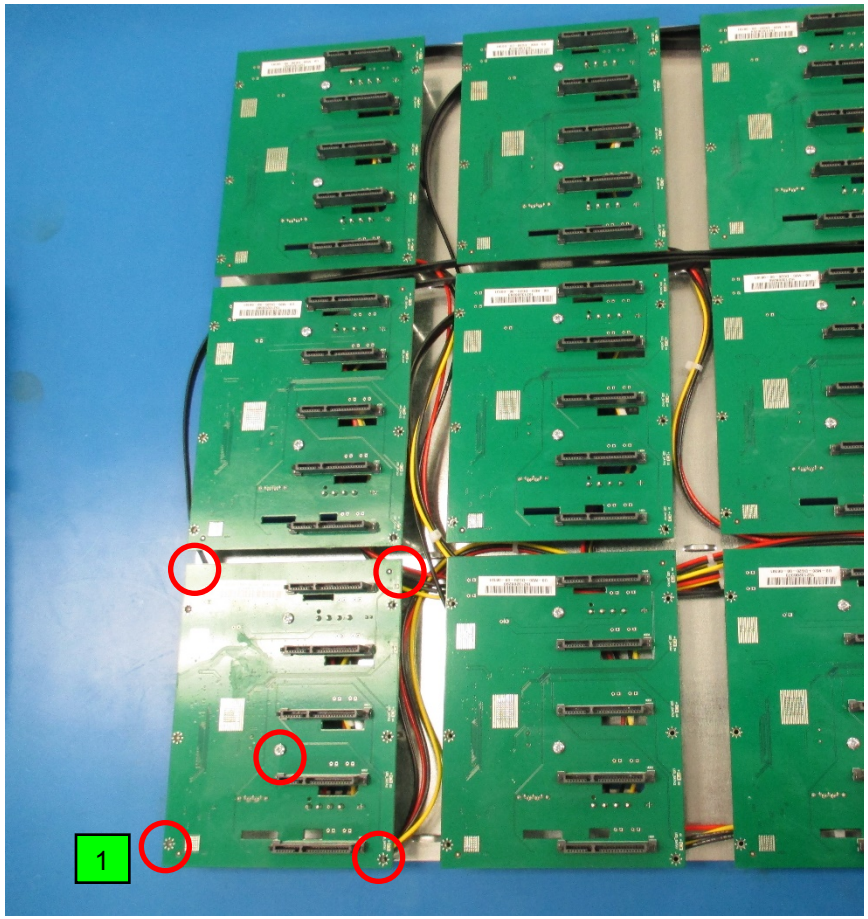
Verify **Grease**

Item	Part No.	Description	Qty
1	BB43-00098-312	Screw	60
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

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

Important: Absolutely NO Kinking of the SATA Cables



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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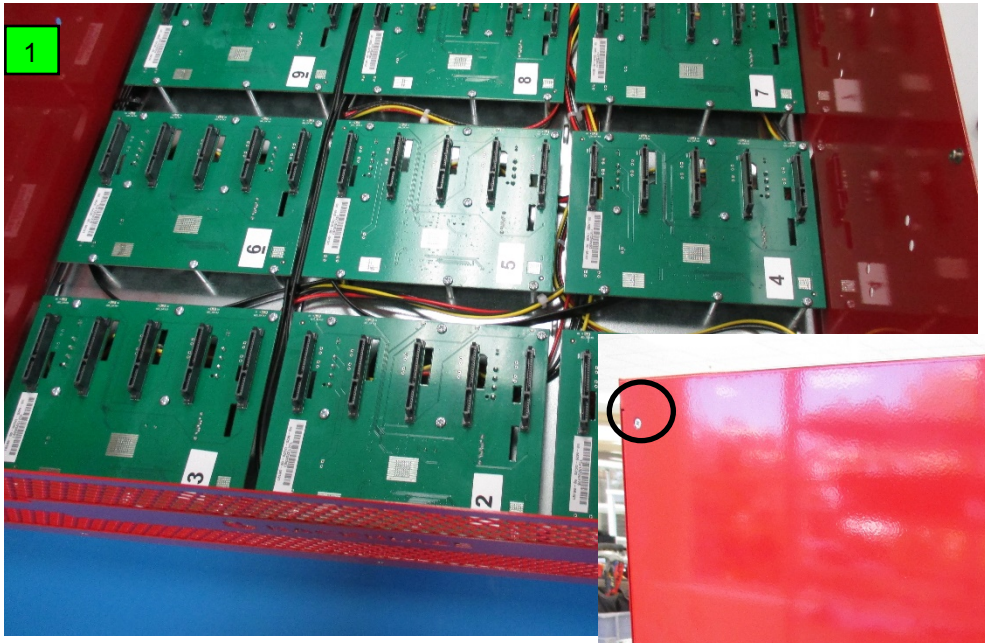
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

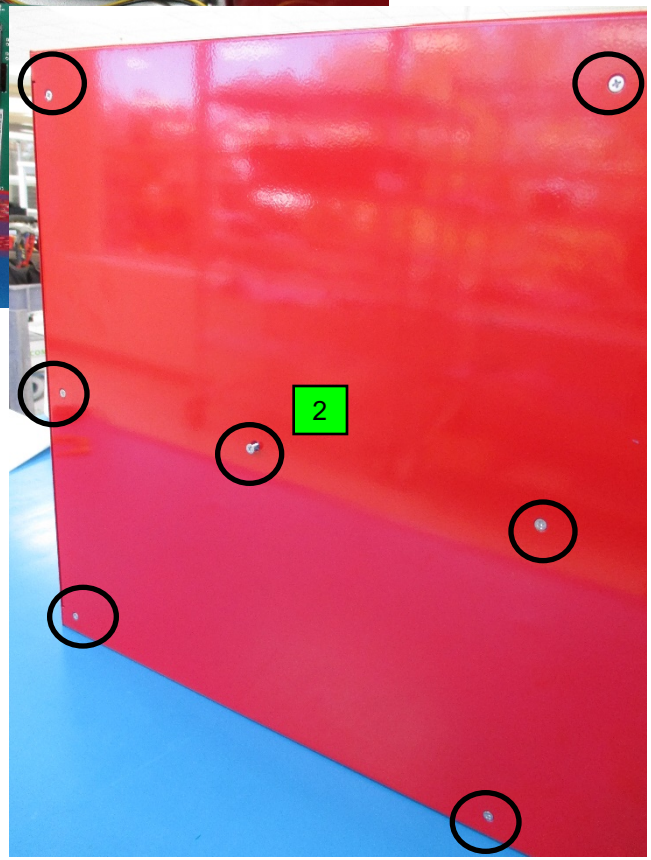
Item	Part No.	Description	Qty
1	N/A	Backplane/Mtg Plate Assy	Ref
2	BB43-00182-250	6-32 x ¼, Screw	7
3			
4			
5			
6			
7			
8			

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.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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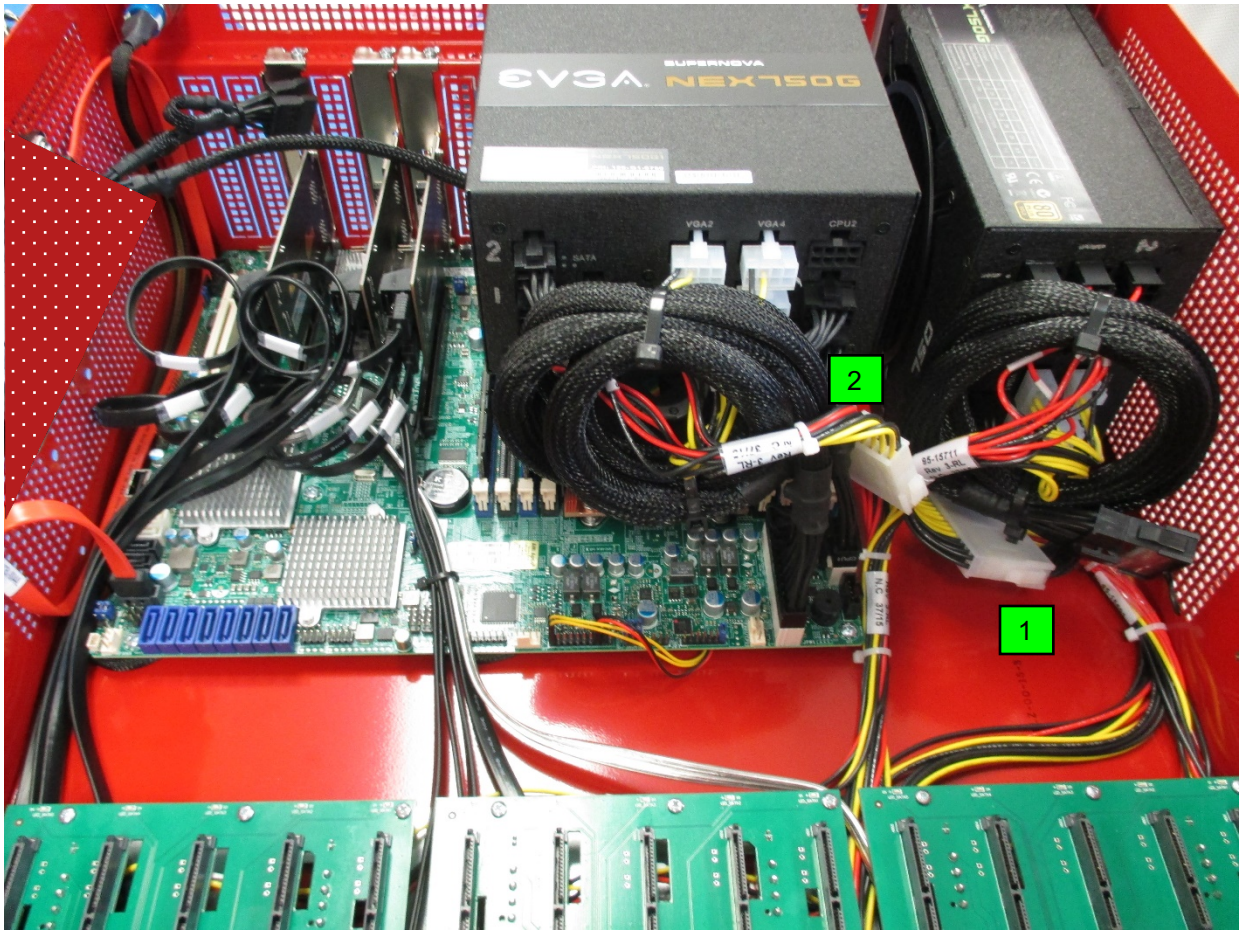
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

Item	Part No.	Description	Qty
1	BBEVE252345	PS Pigtail, EVGA	Ref
2	BBEVE252343	PS1 Harness, 24 Pin	Ref
3	BBEVE252344	PS2 Harness, 24 Pin	Ref
4			
5			
6			
7			
8			

Special Instructions:

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

2. Connect PSU Pigtail Cable connector to PSU2 Cable Harness connector (24pin) and route cable as shown in picture.



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

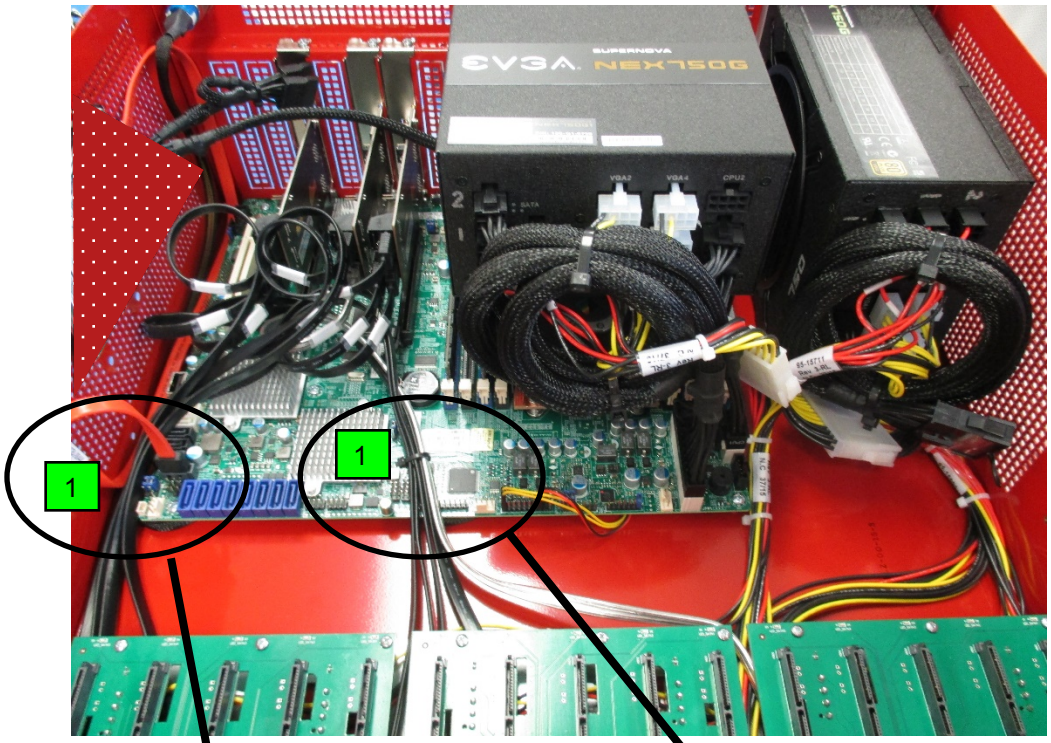
Verify **Grease**

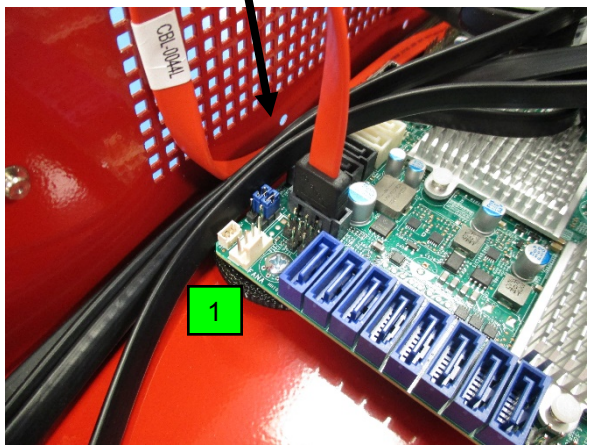
Item	Part No.	Description	Qty
1	Z31063	Tie-wrap “4 inch	1
2			
3			
4			
5			
6			
7			
8			

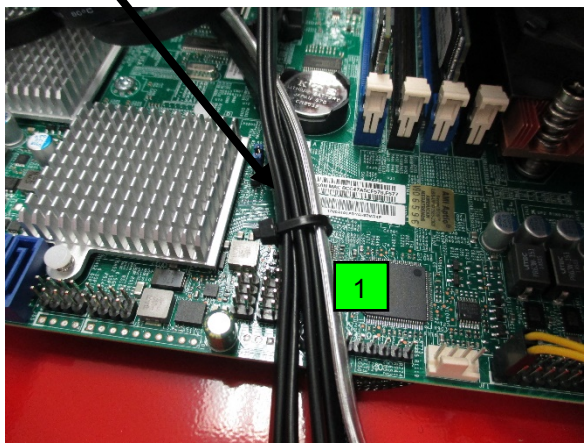
Special Instructions:

1 Route the SATA Cables #1-12 on the chassis as shown in picture and securing SATA Cables #1, 2, 4, 7 & 8 using (1) tywrap.

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







evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BB91-12638	Cable, SATA (40" long)	Ref
2	BB90-14349	SATA Cards	Ref
3			
4			
5			
6			
7			
8			

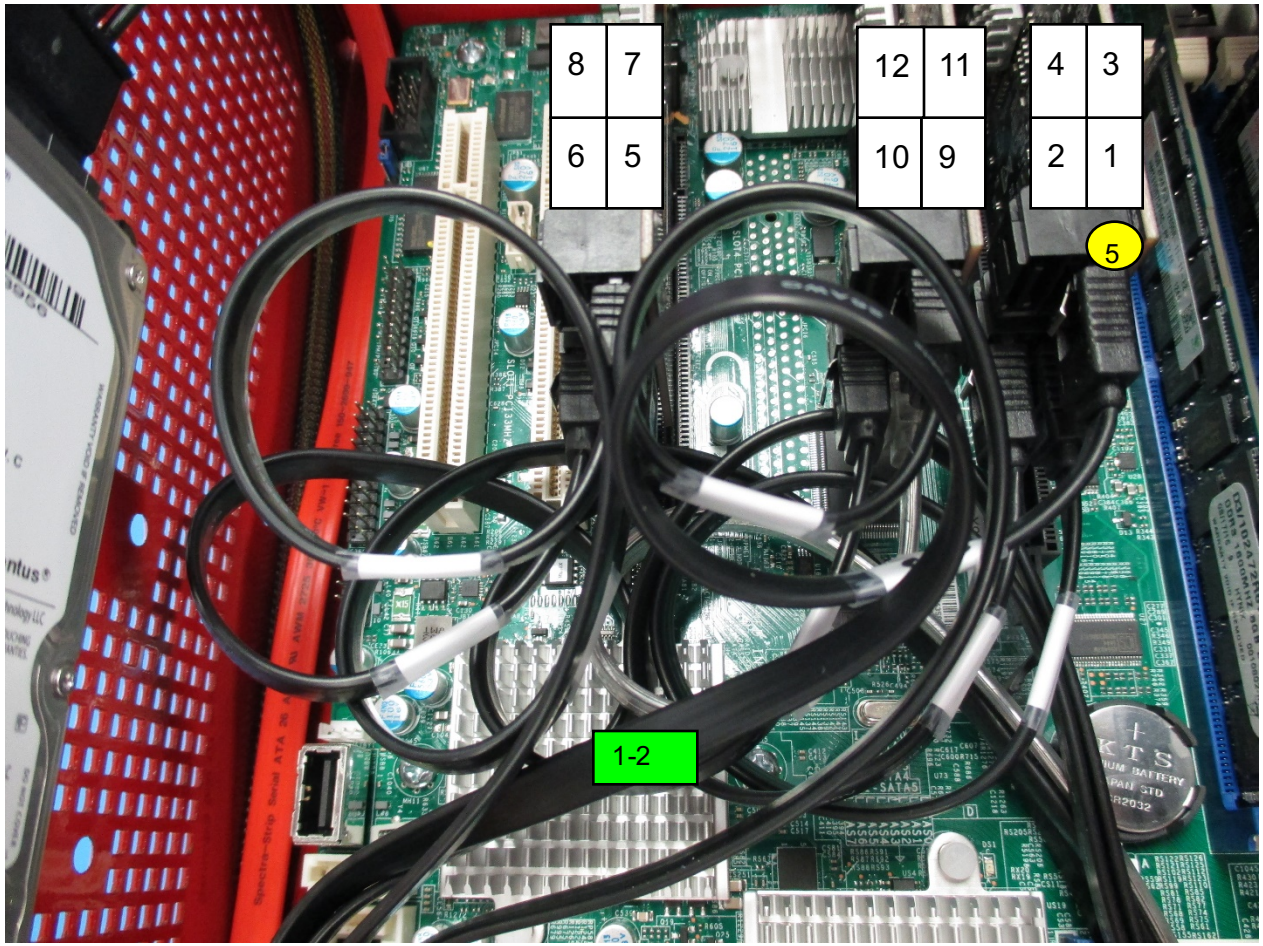
Special Instructions:

1-2 Connect the SATA Cables 1-12 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.



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC — **Torque**

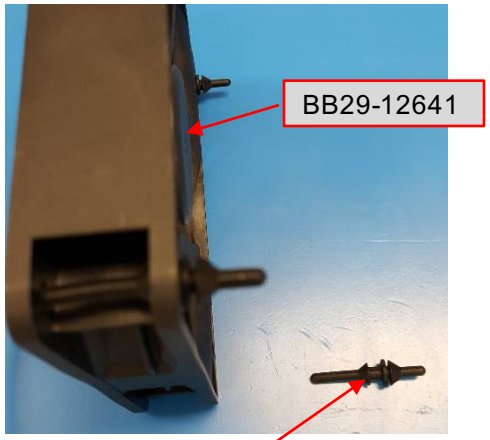
Work Content — **Loctite**

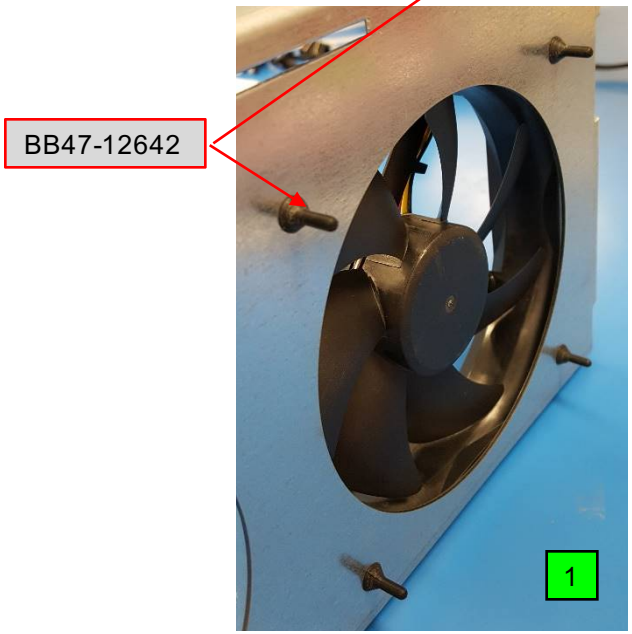
Verify — **Grease**

Item	Part No.	Description	Qty
1	BB29-12641	Fan, 120mm Square	3
2	BBEVE25285	Fan Tray	1
3	BB51-1984	½"Thick Foam	16.5"
4	BB47-12642	Dampener	12
5			
6			
7			
8			

Special Instructions:

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





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

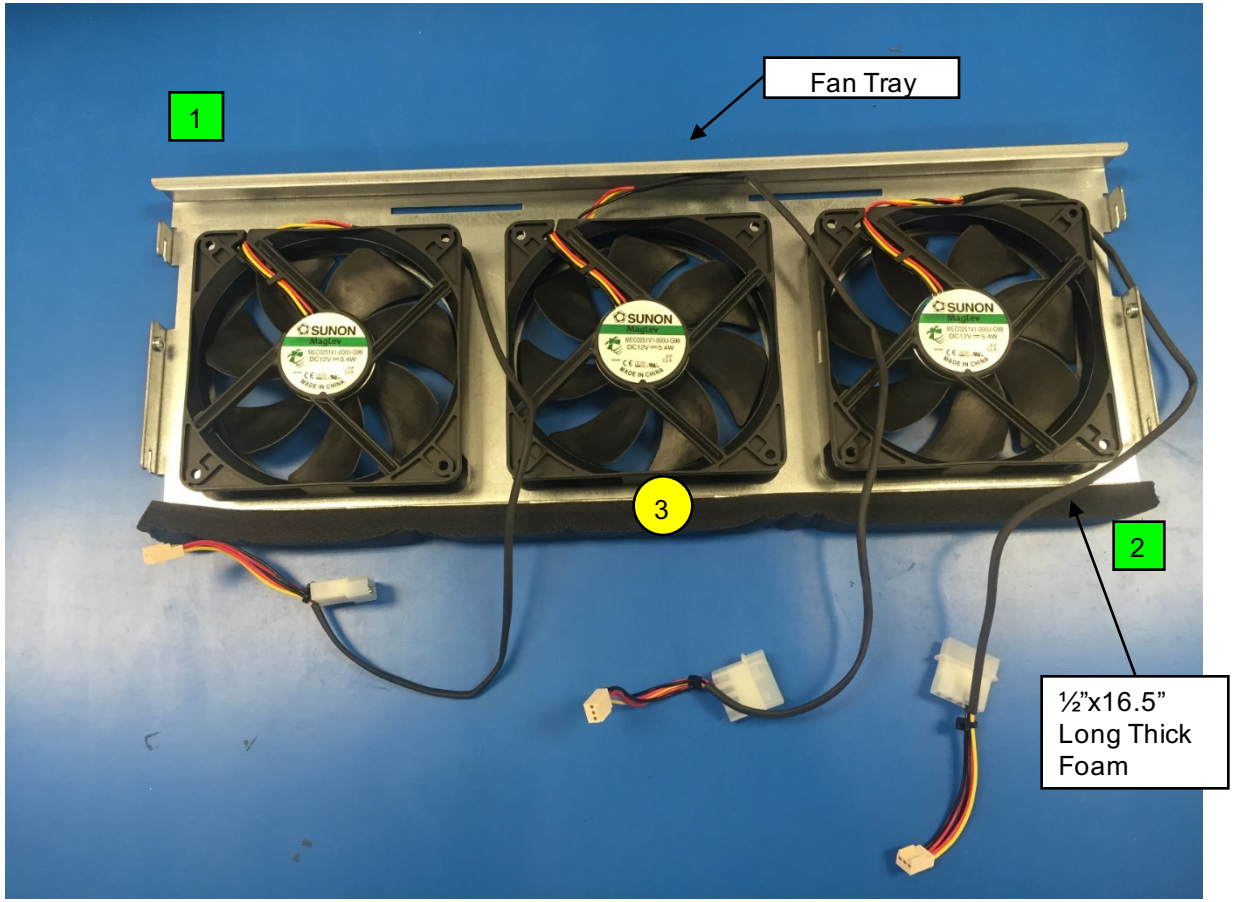
Item	Part No.	Description	Qty
1	BB29-12641	Fan, 120mm Square	3
2	BBEVE25285	Fan Bracket	1
3	BB51-1984	½"Thick Foam	16.5"
4			
5			
6			
7			
8			

Special Instructions:

1 — Install (3) Fans onto the Fan Bracket (part of Chassis) as shown in picture

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.



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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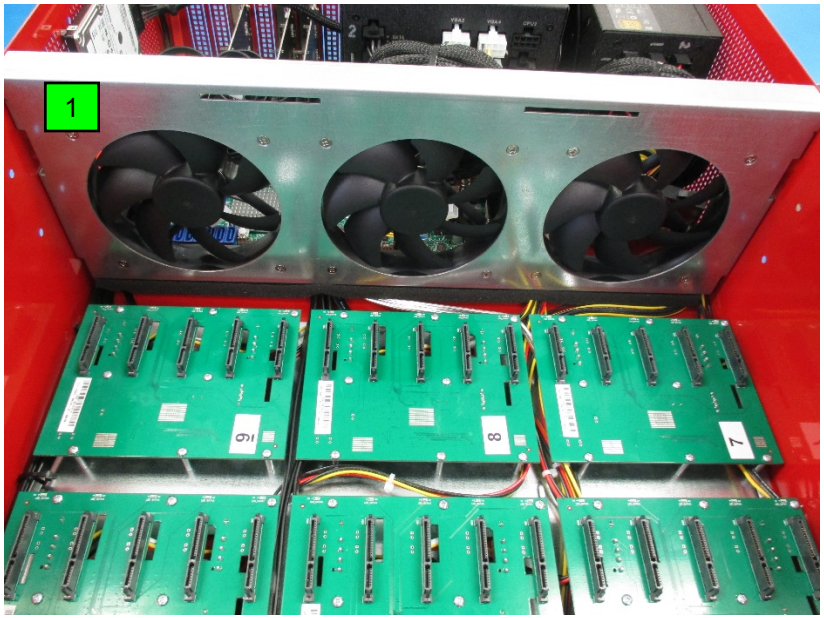
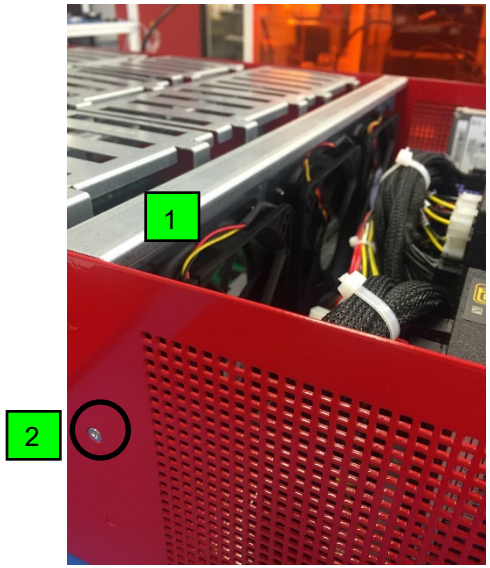
▲	**TQC**	⬡	**Torque**
■	**Work Content**	▬	**Loctite**
●	**Verify**	▬	**Grease**

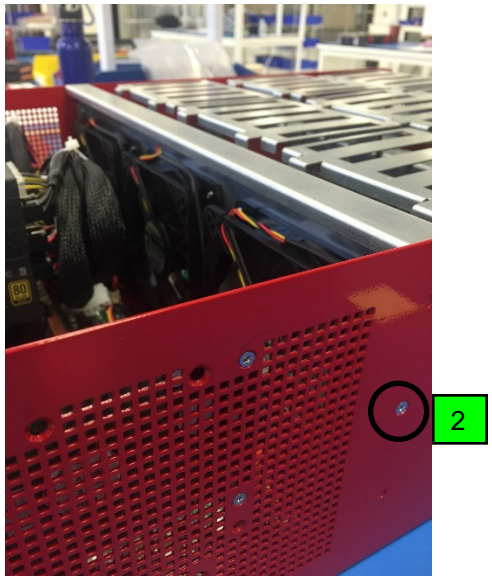
Item	Part No.	Description	Qty
1	NA	Fan Tray Assy	Ref
2	BB43-00182-250	6-32 x ¼, Screw	2
3			
4			
5			
6			
7			
8			

Special Instructions:

1-2 Carefully install the Fan Bracket Assy into the chassis as shown in picture using (2) screws.







evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

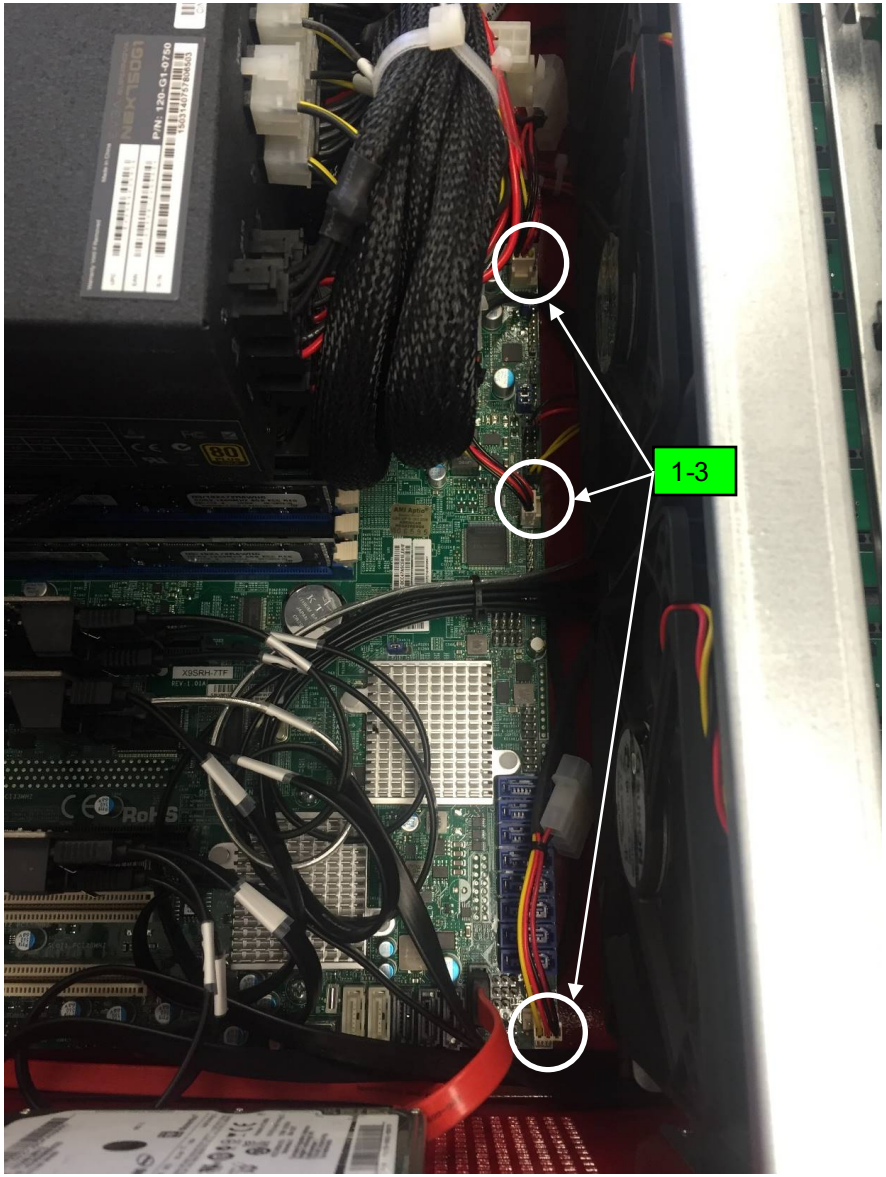
Item	Part No.	Description	Qty
1	BB29-12641	Fan, 120mm Square	3
2	BB90-19317	Motherboard PCBA	Ref
3			
4			
5			
6			
7			
8			

Special Instructions:

1-3 Connect the (3) Fans Cables to the motherboard.

Right Fan → Fan A
Middle Fan → Fan 3
Left Fan → Fan 1

4 Route fan wires underneath all 3 fans



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

TQC **Torque**

Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BBEVE25287	Drive Guides (front)	4
2	BBEVE25287	Drive Guides (back)	4
3	BB43-00182-250	6-32 x ¼, Screw	32
4			
5			
6			
7			
8			

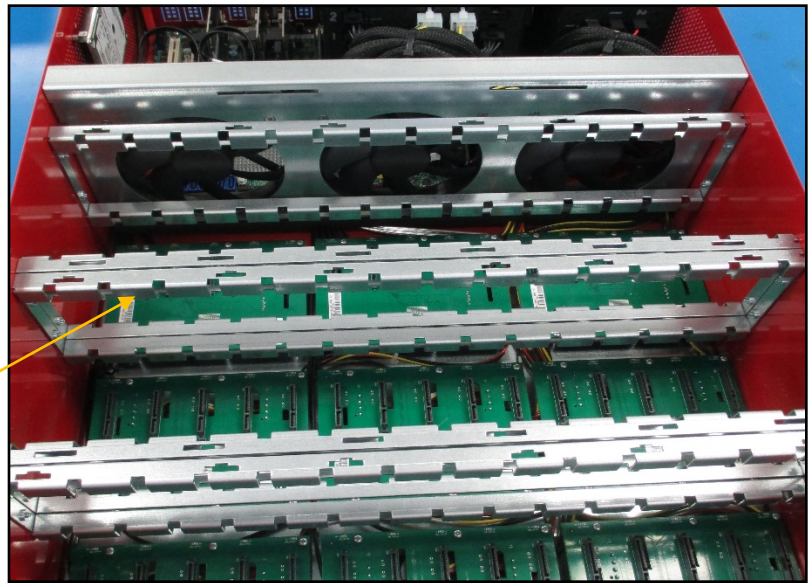
Special Instructions:

1-2 Install 8 drive guides onto chassis as shown in picture using (32x) screws on both sides of the chassis..

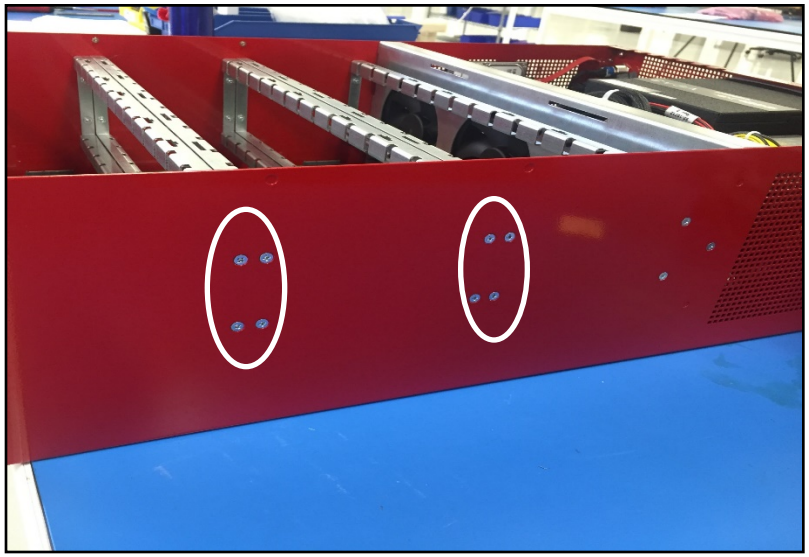
1

2

Drive Guides (8x)



3



evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

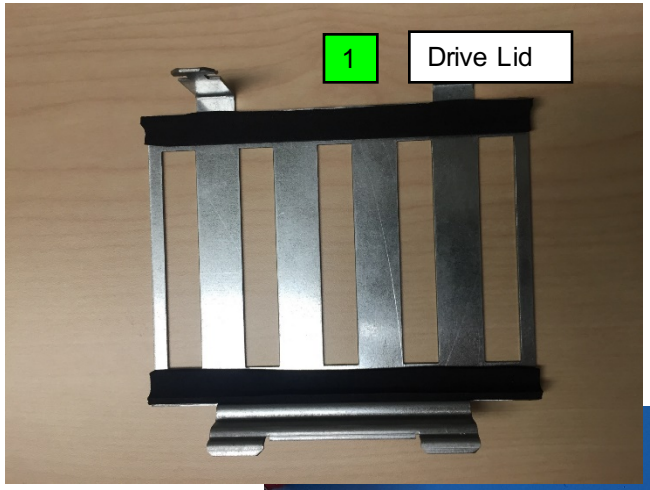
Work Content **Loctite**

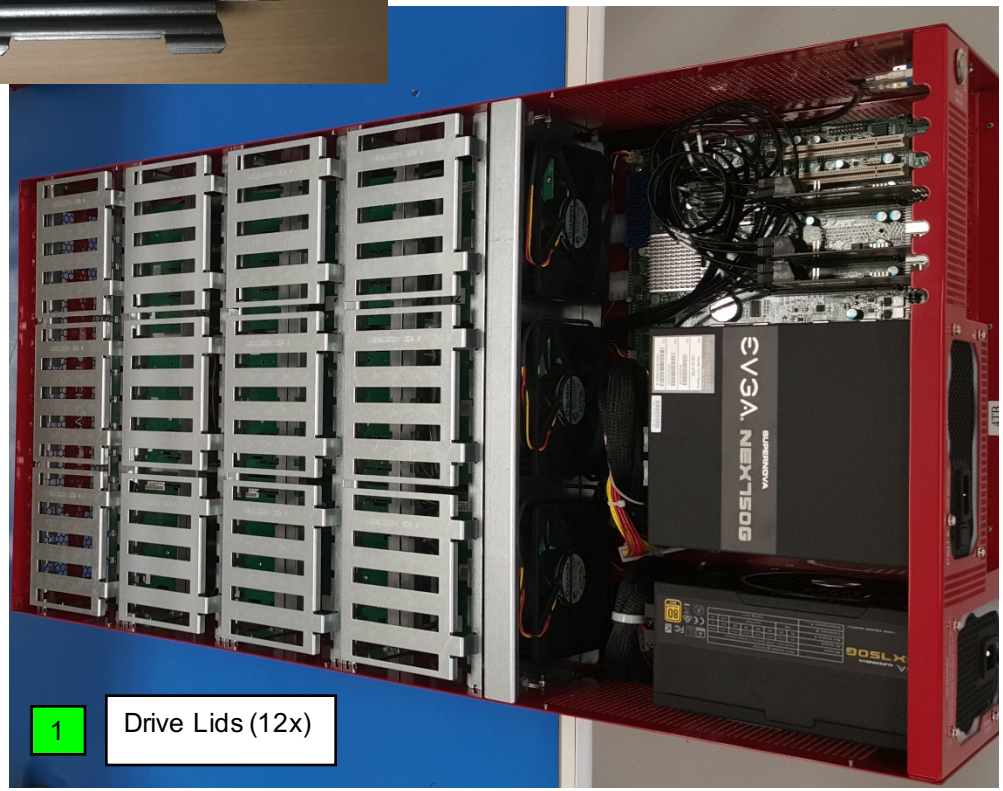
Verify **Grease**

Item	Part No.	Description	Qty
1	BBEVE25291	Drive Lids	12
2			
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Install 12 Drive lids (with preinstalled foam) onto chassis as shown in picture.





evolve MFG. Technologies Inc.	Description OMS: Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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TQC **Torque**

Work Content **Loctite**

Verify **Grease**

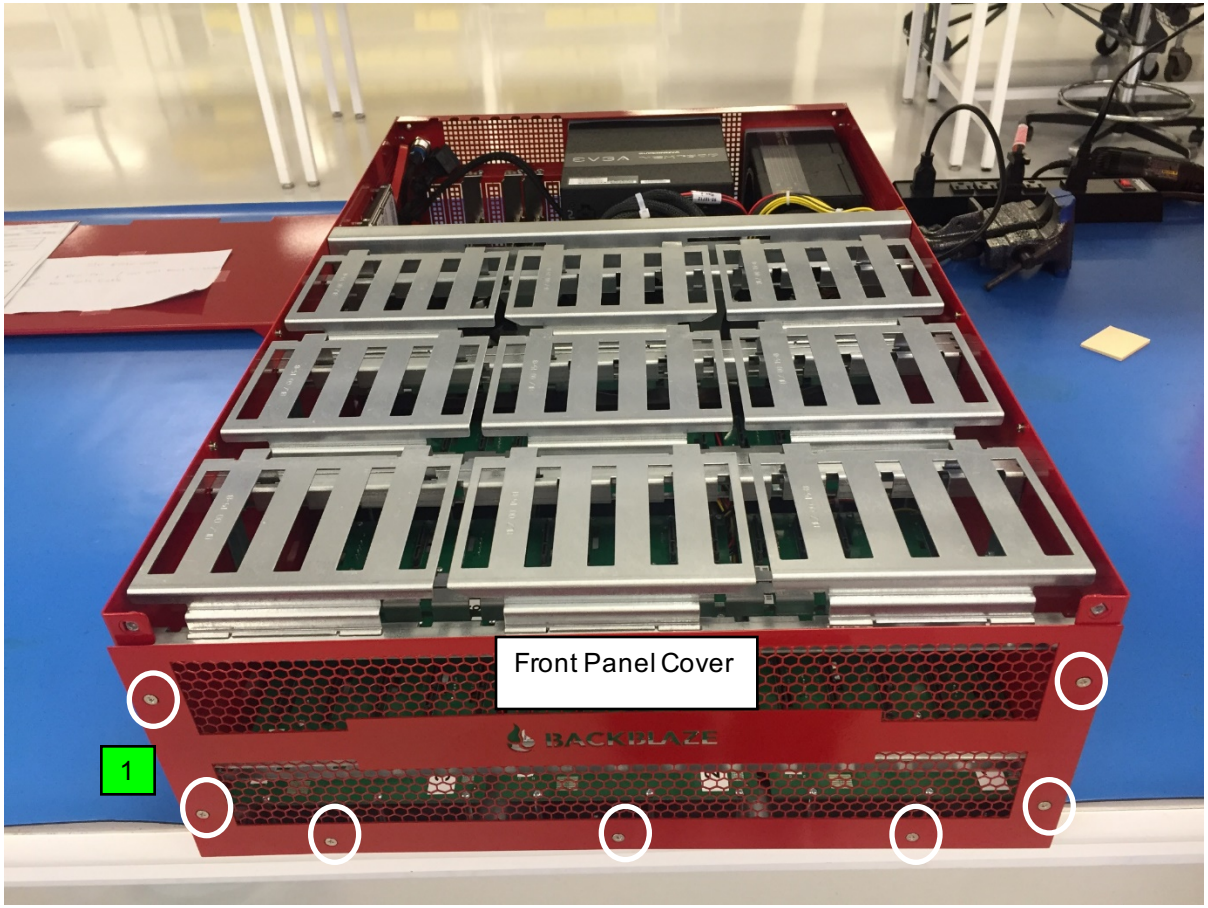
Item	Part No.	Description	Qty
1	BBEVE25290	Front Panel Cover	Ref
2	BB43-00182-250	6-32 x ¼, Screw	7
3			
4			
5			
6			
7			
8			

Special Instructions:

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

Unit is ready for Test

Note: Chassis covers will be installed after testing is complete.



evolve MFG. Technologies Inc.

Description OMS:	Assy, Backblaze, 60 Drive	OMS P/N: **7400-0283**	Rev.: A
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DCR# 2990	Date: 2-29-16	Product ID: BBEVE252303	Operation:

TQC **Torque**

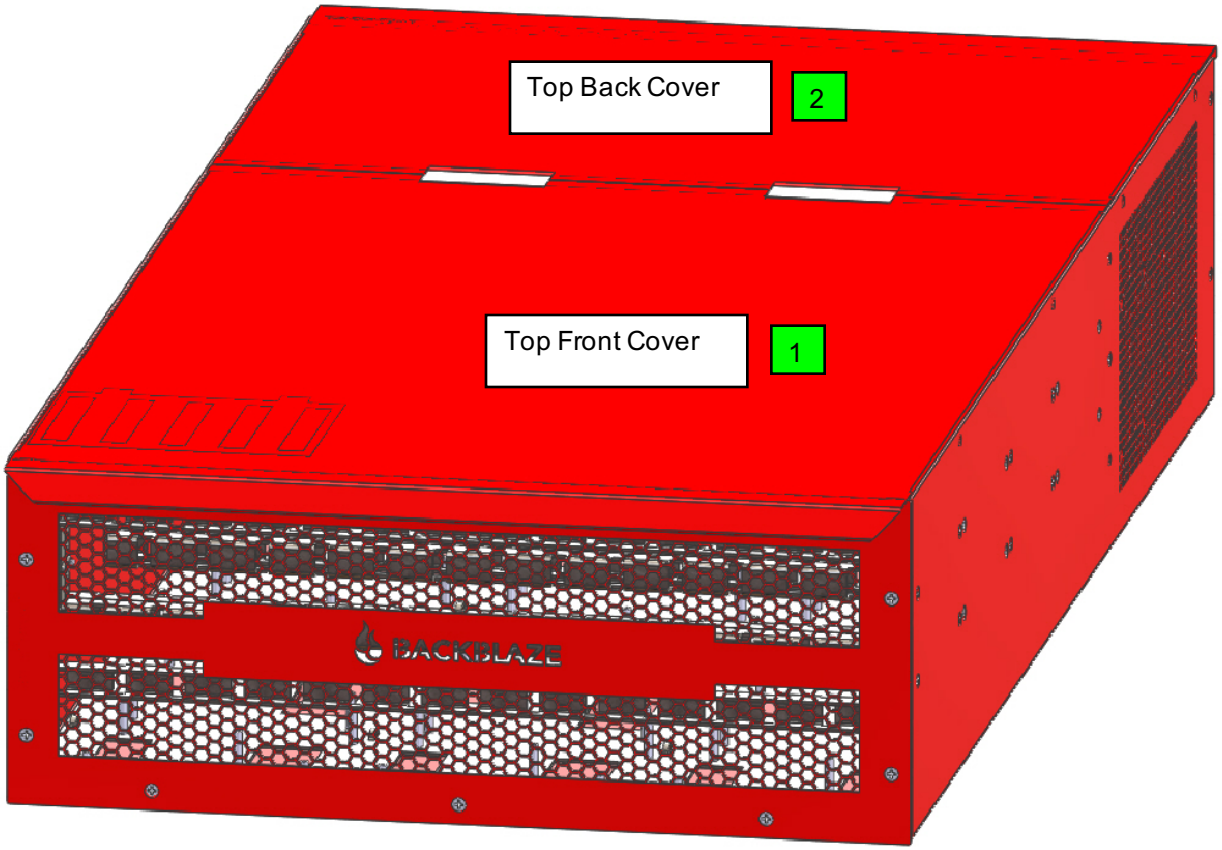
Work Content **Loctite**

Verify **Grease**

Item	Part No.	Description	Qty
1	BBEVE25293	Cover Top Front	1
2	BBEVE2524	Cover Top Rear	1
3			
4			
5			
6			
7			
8			

Special Instructions:

1 Install Top Front Cover onto the chassis assy using built in latching mechanism.

2 Install Top Back Cover onto the chassis assy using built in latching mechanism.

Unit is ready for Packaging