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Formatting, OS Installation, and Migration Guide

OWC Aura Pro 6G SSD (2012-2013 MacBook Pro Retina, iMac)

Important Notes

- This process requires a working internet connection on the host computer.
- This guide assumes that the <u>SSD installation process</u> was already followed and completed.
 - If the SSD is installed on a laptop, make sure the power adapter is connected before you begin the steps below.

Start with Internet Recovery

This guide provides the information required to format your OWC SSD, as well as options for installing the Mac operating system and migrating your data. The process starts by booting into Internet Recovery, using one of the keyboard shortcuts listed below. Because the shortcut used and the specific Mac determine the OS used by Recovery it is worthwhile to determine the latest compatible OS for your Mac before choosing a method. We have included Apple's official compatibility lists for the last several OS versions (see below).

- macOS 10.15 Catalina-compatible
 macOS 10.14 Mojave-compatible
- macOS 10.12 Sierra-compatible
 Mac OS X 10.11 El Capitan-compatible
- Mac OS X 10.10 Yosemite-compatible

• macOS 10.13 High Sierra-compatible

Recovery Option 1: Cmd-Opt-R (Recommended)

Power on the Mac then immediately press and hold Cmd-Opt-R until you see a screen similar to the one at right (in some cases it may be grey). If you see a Wi-Fi menu, choose your preferred network to continue; you may need to provide network credentials.

This Recovery option ensures that later in the process, if you use the 'Reinstall macOS' / OS X' function (i.e. a clean OS install) the latest compatible version will be installed.

Exception: If macOS Sierra 10.12.4 or later has never been installed on this Mac, Cmd-Opt-R installs the macOS that originally shipped with your Mac, or the closest version still available. To avoid this, update to 10.12.4+ before running Recovery.

Recovery Option 2: Cmd-R

Power on the Mac and immediately press and hold Cmd-R until you see a screen similar to the one shown earlier (in some cases it will be a grey background with a globe). If you see a Wi-Fi menu, choose your preferred network to continue; you may need to provide network credentials.

This option ensures that if you use the 'Reinstall macOS / OS X' function (i.e. a "clean install") later in the process, the most recently installed OS version will be used.

Exception: If you recently had your Mac logic board replaced during a repair, Recovery may install the latest compatible macOS.

Additional Notes:

- OS 10.11 and 10.13 included changes to Disk Utility that will determine which formatting instructions to use (see next page).
- If you want to verify the OS version that you booted into before choosing the formatting instructions, you can use the Terminal.
 From the main menu at the top of the Recovery screen, choose Utilities > Terminal, then type the command sw_vers and press
 Return. The OS version that you have booted into will be displayed. If it's the version you expected based on the information provided earlier, you can continue to the Formatting section below. If not, you can try again by choosing Apple Menu > Restart, waiting till the screen turns black and then pressing and holding a different Recovery shortcut, to see if you get the result you want. If you do not it is possible the version of the OS you are looking for is no longer available for your specific Mac.







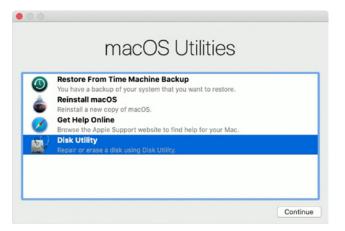
Formatting the SSD

Once you have booted into Recovery, use the Disk Utility to format the SSD. While the process of formatting your drive is simple in all cases, the appearance and steps within Disk Utility can vary based on the OS version. We have set up examples for each version. **Please note:** the drive labels or information in this document may differ from your drive, but the processes won't change.

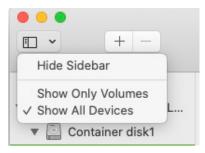
- If the Recovery method selected targets macOS 10.13-10.15, please continue with the steps below.
- If the Recovery method selected targets OS X 10.11 or macOS 10.12, please skip ahead to page 5.
- If the Recovery method selected targets OS X 10.7-10.10, please skip ahead to page 8.

Formatting Steps: 10.13-10.15

Step 1 – from the macOS Utilities window, select the Disk Utility option and click Continue.

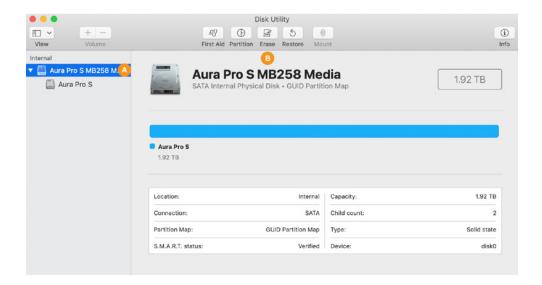


Step 2 – to ensure that all internal devices and volumes are shown from the start, open the View menu widget near the top-left corner of the Disk Utility window and choose 'Show All Devices'.



Step 3 – in the sidebar area at left, select the icon or label for the physical disk (item A at right) Note: some SSDs may also include a factory-formatted volume, listed beneath the physical disk item; this factory volume — or any others on the drive — will be permanently erased.

Step 4 – click the 'Erase' button (item B at right) to continue.



Step 5 – a sheet will open containing the settings needed to format the drive. From the 'Scheme' menu (item A below) set the value to 'GUID Partition Map' if it's not already selected (required).

Step 6 – from the 'Format' menu (item B below) choose 'APFS'. This is the recommended format for Mac SSDs in macOS 10.13 and later.

Step 7 – type a name for your new system volume in the field supplied (item C). **Note:** the volume names shown in later sections will not match the one shown here because the examples are from different sources. However, whatever volume name you choose at this step, will be applicable when choosing a destination for your system and/or data files during the migration process, as well.

Step 8 – click the 'Erase' button (item D) to format the drive. In many cases it will only take a few seconds.

● ● · · · · · · · · · · · · · · · · · · ·	Disk Utility	(j) Info
Internal ▼ 🚰 Aura Pro S MB258 M	 Erase "Aura Pro S MB258 Media"? Erasing "Aura Pro S MB258 Media" will permanently erase all data stored on it. You can't undo this action. Name: OWC SSD Format: APFS Scheme: GUID Partition Map Cancel Erase 	1.92 TB
	Location:InternalCapacity:Connection:SATAChild count:Partition Map:GUID Partition MapType:S.M.A.R.T. status:VerifiedDevice:	1.92 TB 2 Solid state disk0

During the format process, by default the screen will look similar to what you see below. Note that it is possible to see the details of the formatting process by clicking the 'Show Details' widget (item A below), but it is not necessary to complete the process.

View Volume	Disk Utility	
Internal Internal Image: Constraint of the second secon	Erasing "Aura Pro S MB258 Media" an "OWC SSD"	d creating
	Formatting disk0s2 as Mac OS Extended (Jour OWC SSD	Done
	disk0s2 1.92 TB	
	Location: Internal	Capacity: 1.92 TB
	Connection: SATA	Child count: 2
	Partition Map: GUID Partition Map	Type: Solid state
	S.M.A.R.T. status: Verified	Device: disk0

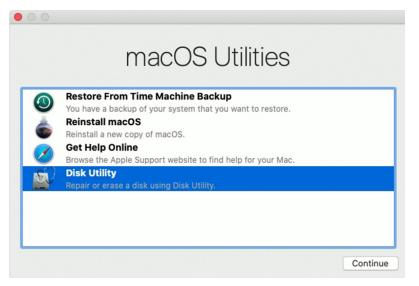
Step 9 – once the process is complete, click the 'Done' button (item A below). You should now see the newly created volume under the physical disk you selected in Step 3 (here it's called 'OWC SSD', item B below).

When finished you can choose Disk Utility > Quit from the main menu. This will take you back to the main Recovery screen. Please skip ahead to page 11 to begin the process of OS installation and/or data migration.

		Disk Utility		
□ · + -	ay (D			í
View Volume	First Aid Partiti	on Erase Restore Mou	unt	Info
Internal Internal Image: Container disk6	Erasing "Aura P "OWC SSD"	ro S MB258 Media" an	d creating	1.92 TB
OWC SSD B	Erase process is co	omplete. Click Done to conti	nue.	
	Show Details		Done	
	OWC SSD			
	1.92 TB			
	Location:	Internal	Capacity:	1.92 TB
	Connection:	SATA	Child count:	2
	Partition Map:	GUID Partition Map	Туре:	Solid state
	S.M.A.R.T. status:	Verified	Device:	disk0

Formatting Steps: 10.11-10.12

Step 1 – from the macOS Utilities window, select the Disk Utility option and click Continue. If you're using 10.11 the utilities window will say 'OS X Utilities' but the options presented will be the same.



Step 2 – in the sidebar area at left, select the icon or label for the physical disk (item A below). Note: some SSDs may also include a factory-formatted volume, listed beneath the physical disk item; this factory volume — or any others on the drive — will be permanently erased during this process.

Step 3 – click the 'Erase' button (item B below) to continue.

• • •	Disk	: Utility	
	.AY D ₽	5 \\$ I	
	First Aid Partition Erase	Restore Mount Info	
Internal	в		
🔄 Aura Pro S MB25 🗛	Aura Pro S MB	258 Media	
	Location:	Internal Capacity:	250.06 GB
	Location: Connection:	Internal Capacity: SATA Child count:	250.06 GB 0

Step 4 – a sheet will open containing the settings needed to format the drive. From the 'Scheme' menu (item A below) set the value to 'GUID Partition Map' if it's not already selected (required).

Step 5 – from the 'Format' menu (item B below) choose 'Mac OS Extended (Journaled)'.

Step 6 – type a name for your new system volume in the field supplied (item C). **Note:** the volume names shown in later sections will not match the one shown here because the examples are from different sources. However, whatever volume name you choose at this step, will be applicable when choosing a destination for your system and/or data files during the migration process, as well.

Step 7 – click the 'Erase' button (item D) to format the drive. In many cases it will only take a few seconds.

•••	Disk Utility AP P First Aid Partition Erase Restore Mount Info	
Internal Aura Pro S MB25 External OWC TOSHIBA M	 Erase "Aura Pro S MB258 Media"? Erasing "Aura Pro S MB258 Media" will delete all data stored on it, and cannot be undone. Provide a name, choose a partition map and format, and click Erase to proceed. Name: OWC SSD Format: Mac OS Extended (Journaled) Scheme: GUID Partition Map Cancel Erase 	250.06 GB
	Connection: SAIA Child count:	0
	Partition Map: Not Supported Type:	Solid state
	S.M.A.R.T. status: Verified Device:	disk0

During the format process, by default the screen will look similar to what you see below. Note that it is possible to see the details of the formatting process by clicking the 'Show Details' widget (item A), but it is not necessary to complete the process.

		Disk Utility		
	First Aid Partition	Erase Restore Mount	(j) t Info	
Internal Aura Pro S MB External OWC TOSHIBA	"OWC SSD"	k0s2 as Mac OS Extended		
	Location:	Internal	Capacity:	250.06 GB
	Connection:	SATA	Child count:	0
	Partition Map:	Not Supported	Туре:	Solid state
	S.M.A.R.T. status:	Verified	Device:	disk0

Step 8 – once the process is complete, click the 'Done' button (item A below). You should now see the newly created volume under the physical disk you selected in Step 2 (in this example it's called 'OWC SSD', item B).

When finished you can choose Disk Utility > Quit from the main menu. This will take you back to the main Recovery screen. Please skip ahead to page 11 to begin the process of OS installation and/or data migration.

	Disk Utility	
	AV D Z 5 ♦ ①	
	First Aid Partition Erase Restore Mount Info	
Internal		
Aura Pro S MB	Erasing "Aura Pro S MB258 Media" and creating "OWC SSD"	
OWC SSD B	Erase process is complete, click Done to continue.	
External		
OWC TOSHIBA	Show Details Done	
	OWC SSD 249.72 GB	
	240.200	
	Location: Internal Capacity: 250.06 GB	
	Location: Internal Capacity: 250.06 GB Connection: SATA Child count: 2	

Formatting Steps: 10.7-10.10

Step 1 – from the OS X Utilities window, select the Disk Utility option (bottom item in the list shown below) and click Continue.



Step 2 – in the sidebar area at left, select the icon or label for the physical disk (item A below). Note: some SSDs may also include a factory-formatted volume, listed beneath the physical disk item; this factory volume — or any others on the drive — will be permanently erased during this process.

	•				Aura	Pro S MB25	58 Media	a				
5	i											WARNIP 977:86
Verify	Info	Burn	Mount	Eject	Enable Journaling	New Image	Convert	Resize Ima	age			Log
1.9	92 TB A	ura Pro				First Aid	Erase	Partition	RAID	Restore]	
	OWC /	Aura Pro	9 SSD		2 Specify a for	sk or volume mat and nam o prevent the covery of prev	in the list ne. recovery viously de	of the disk leted files w	's erasec vithout er			a
						Form	at: Ma	c OS Extend	ded (Jou	rnaled)		٥
						Nan	ne: Unti	tled				
					Erase Free S	pace		Se	curity Op	otions	Erase	

Step 3 – if the formatting options are not already visible, click the 'Erase' tab (item A below) to display them.

Step 4 – from the Format menu (item B below) select 'Mac OS Extended (Journaled)'.

Step 5 – in the field provided (item C below) give your new volume a name. **Note:** the volume names shown in later sections will not match the one shown here because the examples are from different sources. However, whatever volume name you choose at this step, will be applicable when choosing a destination for your system and/or data files during the migration process, as well.

Step 6 – click the 'Erase...' button (item D below) to begin the formatting process.

	•				Aura Pr	o S MB25	68 Media	a				
5	i					S						WARNII 97.7:86
Verify	Info	Burn	Mount	Eject	Enable Journaling N	ew Image	Convert	Resize Ima	age			Log
1.9	92 TB A	ura Pro	S MB2		F	First Aid	Erase	Partition	RAID	Restore		
-		Aura Pro			To erase all data on1Select the disk2Specify a form:3If you want to pOptions.Click Erase.4Click Erase.To prevent the recovvolume in the list on	or volume at and nam prevent the very of prev	in the list ie. recovery riously de	of the disk	's erased vithout er			ta
				•		B Form		c OS Extend	ded (Jour	naled)		
						C Nan	ie. OW	CSSD				
					Erase Free Spa	ice		Se	curity Op	otions	Erase	

While formatting you will see a progress meter (item A below) near the bottom of the window. The process may take several seconds.

		revent the recovery of previous me in the list on the left, and c	ly deleted files without erasing the vick Erase Free Space.	volume, select a
Colorado Al Sierce Bittig	•	Format: Name:	Mac OS Extended (Journaled) OWC SSD	٥
		Erase Free Space	Security Options	Erase
	Formatting disk0s2	as Mac OS Extended (Journal	ed) with name OWC SSD	A
Connect	scription : Aura Pro S M tion Bus : SATA Location : Solid State D	Write Disk, Internal S.M.A.R.T	apacity : 1.92 TB (1,920,383,410,1 e Status : Read/Write . Status : Verified Scheme : GUID Partition Table	76 Bytes)

Step 7 – you should now see the newly created volume under the physical disk you selected in Step 2 (in this example it's called 'OWC SSD', item A below). Choose Disk Utility > Quit from the main menu. This will take you back to the main Recovery screen.

OS and data migration options begin on the next page.

	•				Aura	Pro S MB2	58 Media	a				
3	i		€				P					WABNII 977:86
Verify	Info	Burn	Mount	Eject	Enable Journaling	New Image	Convert	Resize Ima	ige			Log
25	0.06 G		Pro S MB		To erase all data o 1 Select the d 2 Specify a for	First Aid on a disk or v isk or volume rmat and nam to prevent the covery of prev on the left, an Form Nam	Erase olume: in the lis ne. e recovery viously de nd click E	Partition t on the left. of the disk eleted files w trase Free S c OS Extend tled	RAID 's erased rithout era	asing the v naled)	·	
?		Connec	tion Bus :	SATA	ro S MB258 Media State Disk, Internal	S.M.A	Write Sta R.T. Sta	city : 250.06 tus : Read/ tus : Verifie me : GUID	Write d)16 Bytes)	

OS Install Methods & Data Migration

Once you have created a new volume on your SSD, there are three methods we typically recommend for setting up a new system drive with your data on it. Which one you choose will depend on your situation and on your preferred backup method. The options are:

- 1. Recovery: 'Reinstall macOS / OS X' (i.e. a clean install) + Migration Assistant (move data after OS install)
- 2. Recovery: (Full) 'Restore from Time Machine Backup' (i.e. transfers system and user data together)
- 3. Transfer system and user data from a Carbon Copy Cloner backup (also transfers both together)

Notes

• If you do not need to set up a clean OS install, please skip ahead to Page 13 to migrate both your system and user data via 'Restore from Time Machine Backup', or to Page 15 if you're using Carbon Copy Cloner.

Option 1: Reinstall the OS + Migration Assistant

Some people choose this option if they were having stability trouble with the macOS around the time it was last backed up, or just for peace of mind that the system will be installed fresh on their new drive. To create a clean install you can stay within Recovery mode and use the macOS Utilities following the steps below.

Step 1 – select the 'Reinstall macOS' or 'Reinstall OS X' option from the Utilities window. Reminder: if you're using OS 10.7-10.11, this window will say 'OS X Utilities' but the options provided will be the same. Some of the other screens may look slightly different as well.

	Restore From Time Machine Backup	
	You have a backup of your system that you want to restore.	
	Reinstall macOS Reinstall a new copy of macOS.	
0	Get Help Online Browse the Apple Support website to find help for your Mac.	
50	Disk Utility Repair or erase a disk using Disk Utility.	

Step 2 – once the macOS installer opens, follow the prompts as you normally would to install the system onto a new drive). Once the installation is complete the system will reboot to your new drive.

Step 3 – by default the Setup Assistant will open, walking you through a few screens to help get your new system setup. One of these is the Migration Assistant screen (below). While this is optional after a clean OS install, for this guide we assume that you have data to move to your new drive, either from a Time Machine or Carbon Copy Cloner backup. It is also possible to migrate data by connecting your original drive via external enclosure, and then use the 'From a Mac, Time Machine Backup, or startup disk' option.

ortant information on another Mac or Windows PC, you can transfer it to this M n also transfer data from a Time Machine backup or another startup disk.
Ľ → Ľ
How do you want to transfer your information?
• From a Mac, Time Machine backup, or startup disk
From a Mac, Time Machine backup, or startup disk From a Windows PC
From a Windows PC

Step 4 – What you do next will depend on the type of backup you have. If you have a Time Machine drive, connect it to your Mac then select the 'From a Mac, Time Machine Backup, or startup disk' option (shown above), and click continue. Follow the remaining prompts to select your Time Machine backup volume and migrate your data. Note: to learn more about the Migration Assistant options, please see <u>this page</u>. When you're finished migrating your data, follow any remaining prompts for the Setup Assistant to finish that process. The same option is also available if you connect your original system drive via external enclosure.

If you're using Carbon Copy cloner, you can connect that disk to the host computer and select it by choosing the 'From a Mac, Time Machine backup, or startup disk' option and following the prompts. More information is available <u>here</u>.

Step 5 (optional) – once the process of installing the OS and migrating data is complete, we strongly recommend you run <u>Software</u> <u>Update</u> to make sure your system resources and apps are fully up-to-date.

	Software Update	Q Search
	An update is available for your Mac • macOS 10.14.1 Update More info	Update Now
Software Update	Use of this software is subject to the <u>original lice</u> accompanied the software being updated. Automatically keep my Mac up to date	

Option 2: (Full) Restore From Time Machine Backup

If you have a recent, working Time Machine backup of your entire system drive, the simplest method of migrating all system and user data is to use the Restore from Time Machine option in the macOS Utilities window.

Notes:

- Make sure your Time Machine backup drive is connected and powered on before proceeding.
- The volume icons and names shown in the following steps are examples and differ from those shown earlier.

Step 1 – select the 'Restore from Time Machine Backup' option from the Utilities window. Reminder: if you're using OS 10.7-10.11, this window will say 'OS X Utilities' but the options provided will be the same. Some of the other screens may look slightly different as well.



Step 2 – from the 'Select a Restore Source' window (below) select your Time Machine backup disk then click Continue.

s	Select a Restore Source Select the disk that contains the Time Machine backup or Time Machine local snapshot you want to restore. If you have an external disk, you can connect it now.		
B	ackups		
		Macintosh HD	
		Backup	
(<->)		(\in) (\Rightarrow)	
ner Server		Go Back Continue	

Step 3 – If your Time Machine disk is encrypted, you will need to unlock it first by providing an administrator password. Otherwise the 'Select a Backup' window will appear. Choose the desired backup instance, then click Continue.

Select the Time Machine backup you want to restore. Only complete backups of macOS appear in the list.			
Restore From:	Backup		0
Backup Date & Time			macOS Version
September 27, 2018 at 4:11:32 PM	1		10.14 (18A391)
	$\left(\in \right)$	(\rightarrow)	
(Bo Back	Continue	

Step 4 – from the 'Select a Destination' window, choose the newly created volume on the SSD, then click 'Restore'. When the process is finished, restart to verify that the transfer of your data was successful.

	Select a D	estinat	ion	
Restore Destinat	ion Disk		Space Available	
	Macintosh HD		121.12 GB	
() Th	e system will be restored onto th	iis disk.		
	Go Back	Restore		

Step 5 (optional) – before using your Mac, we strongly recommend you run <u>Software Update</u> to make sure your system resources and apps are fully up-to-date.

Option 3: Full Restore from Carbon Copy Cloner

If you recently cloned your system drive using <u>Carbon Copy Cloner (CCC)</u>, you should be able to boot to your cloned system backup and then migrate data as shown below. These steps are recommended by the developer (Bombich).

Notes:

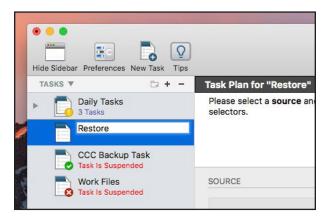
- Make sure your CCC backup drive is connected and powered on before proceeding.
- The volume icons and names shown in the following steps are examples and differ from those shown earlier.

Step 1 – from the Apple menu at the top of the screen, choose 'Restart'. Once the computer restarts and you hear the system chime, hold down the Option key until you see the Startup Manager screen and the available boot drives. Note: the example below shows a typical default boot drive name and icon. The icon for a new OWC SSD will be different than the example below, as well as the name, but the process described is the same.



Step 2 – select your Carbon Copy Cloner backup volume from the list and click the arrow (similar to the one shown above) to continue the boot process.

Step 3 – once the Desktop is available, launch the Carbon Copy Cloner application, then click the 'New Task' button in the toolbar (unhide the Sidebar if needed). Name the newly created task (e.g. 'Restore').



Step 4 – in the 'Source' area of the window, click on the drive icon and then select the desired backup from the menu.

	SOURCE	DEST
LOCA	L VOLUMES	
	CCC Backup 249 GB SATA Volume	
0	Macintosh HD 99 GB SATA Volume	D
	S9 GB SATA Volume	
	RAID Backup 59 GB SATA Volume	
OTHE	R SOURCES	

Step 5 – in the 'Destination' area, click on the drive icon and then select the new volume you created in the Disk Utility.

DESTINATION		SCHI
<		
LOC	CAL VOLUMES	
	CCC Backup 249 GB SATA Volume	
1	Macintosh HD 99 GB SATA Volume	9
	RAID 59 GB SATA Volume	
	RAID Backup 59 GB SATA Volume	
OTH	IER DESTINATIONS	

Step 6 – click the 'Clone' button (highlighted in red below). The data transfer can take a while depending on the amount of data and the connection type. After the process is complete, go to the System Preferences, choose 'Startup Disk' and select your new startup volume, then restart the computer. Notes:

- You will need to provide administrator credentials to access and set the Startup volume.
- After restarting we strongly recommend you run <u>Software Update</u> to make sure your system is fully up-to-date.

SOURCE	DESTINATION	SCHEDULE
CCC Backup 25.76 GB used	X Macintosh HD 86.44 GB free	No schedule specified
Copy All Files	SafetyNet On C Modified and deleted files will be cached as space allows on the destination.	Don't send email
3		Clone