

Installation & User manual for the mObridge M1000-M-DA series of Pre-Amplifiers





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Welcome!

Dear Buyer,

Congratulations on your purchase of a mObridge M1000-M-DA Pre-Amplifier. mObridge prides itself on striving to develop and manufacture products to the highest engineering quality standards and seamlessly integrating these products with factory audio visual systems.

The mObridge M1000-M-DA series are some of the most advanced DSP aftermarket audio integration interfaces available for the MOST Bus based vehicles, and comes with an easy to use PC & Mac Graphical Interface for set up and tuning for the DA2 (limited interface) & DA3 systems. This can be downloaded free from our <u>www.mobridge.us</u> website.

Features, depending on DA model, include TOSLINK output, Channel Mapping to 8 RCA output channels, 1000 Point Parametric Graphic Equalizer for each channel, as well as a 'Master EQ', Crossover Type and crossover points for each speaker, crossover slope, individual speaker time alignment, phase adjustment, Q factor (Both left and right), and summing for subwoofer or centre channel set up.

As with all mObridge products, we have included a USB port for USB upgrades of the software allowing for new features to be added as they become available. The M1000-M-DA series can be updated by simply loading the latest software from our website and through the use of either the Wizard or the DSP user interface.

The M1000-M-DA series may also have system function upgrades available for purchase and download from time to time. These will also be available on our website.

We hope you enjoy your new enhanced listening experience!

Kind regards,

mObridge



Disclaimer

mObridge makes every effort to try and keep the support and installation documentation up to date.

We do not reimburse or bear costs arising from installations should installation issues occur. mObridge can be contacted via email and also via its world wide distribution network. We always recommend contacting the local distributor first, and although we endeavor to answer emails we receive in a timely manner, due to time zone differences we may not be able to respond immediately.

mObridge always recommends professional installation of these products as they are technically complex, involving optical fiber across multiple vehicle configurations and software versions within these vehicles.

In some cases vehicles may require coding by specialist workshops and diagnostic equipment. mObridge always recommends allocating a number of hours to any installation, just in case any issues should arise.



Kit Contents

M1000-M-DA1Contents

The M1000-M-DA series product comes complete and ready to install into the MOST Bus systems within the compatible vehicles.

The mObridge M1000-M-DA1 kit contains the following items:

- M1000-M-DA1 main unit
- Power, Ground & Remote wiring harness
- MOST extension cable
- MOST connectors
- Free software download from <u>http://www.mobridge.us/wizard</u> (this is not provided in the package contents)

M1000-M-DA2 & M1000-M-DA3 Contents

- M1000-M-DA2 main unit
- Power, Ground & Remote wiring harness
- 8x RCA output cable
- MOST extension cable
- MOST connectors
- Free software download from http://www.mobridge.us/wizard and also the DSP user interface http://www.mobridge.us/node/15213 (this is not provided in the package contents)

Common Install Notes







- 1. Prior to commencing any installation! Some vehicles may need to be coded for the M1000-M-DA for correct operation. Please refer to the Coding notes chapter in this instruction manual.
- 2. Initially, please set the gain controls on your analogue amplifiers to minimum. This will reduce noise significantly and allow your amplifiers to run smother for longer. NB: We recommend that you use the M1000-M-DA gain control as your master set up gain.



Power Wiring Harness & MOST cable

The M1000-M-DA kits come with a universal power, ground & remote turn on harness as pictured below. We recommend these products be installed by a professional Installation Technician.



Red = 12v Positive Black = Ground Blue = Remote Turn On

Figure 1 DA1 Kit Contents



Figure 2 DA2/DA3 Kit Contents

We highly recommend the MOST connection be made as soon after the Head unit as possible. The DA units come with a MOST fiber extension to be able to extend the factory amplifier wiring to the unit. The units also come with a range of other MOST connector shells just in the case the car does not have an existing amplifier. In these cases the installer can change the MOST connector shells and form a 'T' piece from the MOST cabling.

NB: The DA unit needs to be connected to the car before the PC software will work as the DA will not power up until it has MOST light.

NB: If the MOST Bus is not connected properly, this can affect many functions of the vehicles operating system including the ability to start the vehicle.

Graphical Interface Operation



The Graphical Interface can be downloaded from our <u>website</u>, and can be used both online and offline mode. However, in order to 'Map the Channels' you will need to be connected to the DA2/DA3 with power connected too. Offline mode allows you to configure Graphic EQ settings and store them for later fine-tuning in the car if desired. We recommend all tuning be done with a 'Live' System, because this way you can hear all changes being made in real time. Graphic EQ, Crossover settings and Time Alignment changes, can all be heard as you make the changes when 'Live'.

Connecting and Channel Mapping

Once downloaded, we recommend you open the application and connect to your DA unit via a USB cable (not provided). If power is connected to the DA and turned on, you will see the below screen.

🗑 Default - mObridge DSP - Version 0.3.3	
File	
6	Default Preset 1
CONFIGURATION CHANNEL EQ	Connected Connected
CONFIGURE OUTPUT Front Left Tweeter	TIME ALIGNMENT & TESTING
Configure Output Channel 1	ront Left Tweeter 0.00 ms 🛱 0.00 m 🛱 Mute 🍨
input Mapping	Front Right Tweeter 0.00 ms 🔁 0.00 m 🛱 Mute 🍨
	Rear Left Tweeter 0.00 ms 🔁 0.00 m 🗃 Mute 🍨
	Rear Right Tweeter 0.00 ms 🗧 0.00 m 🚍 Mute 🍨
Source Select MOST	Left Sub Woofer 0.00 ms 拱 0.00 m 拱 Mute 🌑
5 Vehicle Select Mercedes NTG2.5/4.x	P
50Hz 100Hz 500Hz 1kHz 12d8	5kHz 10kHz 20kHz
6dB	
-668	
-1848	
-24dB	
MASTER GAIN 0.00d8 FREQ 0.00Hz SMAG 0.00d8 GQ-FACTOR 0.01	

Figure 3 M1000-M-DA3 Connected

The first thing you will need to do is to select the vehicle the DA is being fitted to and then configure the channels for the correct mapping of your particular system.

First select a speaker from the image of the vehicle then from the drop down menu in the middle of the screen, select the channel output you have connected for that particular speaker. Repeat this for each speaker and its corresponding output channel.

When running a component speaker system with a passive crossover, only select one of the speakers in the cluster. It is not important which speaker is chosen, as this is only the mapping stage. Crossover settings will allow for correct settings for this type of speaker system!

When connecting a Mono Subwoofer, simply select the speaker image and click the 'Left' & 'Right' buttons for the input mapping in order for the M1000-M-DA3 to know that this is a 'summed' channel output, providing information from both the left and right hand sides.

Crossover (Filter) Set up

After channel mapping, you will need to set the crossover for each of the speakers connected. To do this, first click on the 'Channel EQ' TAB at the top left corner of the screen. This will open the Full EQ page for the individual speaker selected.



You will also note a 'XOVER L/R LINK' radio button. This allows you to set up both left and right crossovers simultaneously. It is very unusual to have separate crossover settings for the same type of speaker on opposite sides of the vehicle.

In the middle of the screen you will see the 'Filter type' drop down menu. Select your desired crossover.

- Low Pass for Subwoofers
- Band Pass for Mid-Bass or Midrange Speaker
- High Pass for Tweeters

If you are running a passive crossover on your component speakers, then select High Pass filter and simply lower the crossover point.

To adjust the crossover point, there are two methods:

- 1. Simply type a number into the Lo-P Hz or Hi-P Hz boxes provided
- 2. Drag the 3db down point (shown as a grey or blue dot on the Graphic Screen) to the desired frequency.

As you make the adjustments, you will hear the difference your changes make if you are connected and powered on!



Figure 4 M1000-M-DA3 Crossovers

You can also adjust the slope of the crossover. The adjustment options for slope are 6dB, 12dB, 18dB and 24dB.

In the above figure we have selected a tweeter and applied a hi-pass filter to it with a 24dB slope.

Individual Channel Equalization

Each speaker can be equalizer or tuned to your own taste. NB: If the 'XOVER L/R LINK' radio button is selected, the linked speakers of left and right will be equalized together. We recommend this for initial tuning. You can always uncheck this radio button to fine tune individually later.

Go back to the 'Configuration' TAB at the top left corner. Here you will see a flat yellow line across the Parametric Equalizer towards the bottom of the screen. Take make adjustments, you just select a point with your mouse, click and hold, and then drag it to your desired setting. You can do this up to 1000 points!

As you move the point on the screen, you will hear the sound adjust. For each point in the Eq curve you can adjust the left and right Q-factor or you can link the Q-factor together.



There is also a checkbox for watermarking the related speakers so that the user can see exactly where the cross-over points are.



Figure 5 Channel Equalizer

We can see in figure 5 that we have placed two points in the Eq curve and that we have adjust one point at 6136Hz down a little and adjusted the left Q factor down to 0.01 and the right Q-factor is at 3.00. There is also a slider bar for channel gain control.

Default - mObridge DSP - Version 0.3.3	200	
File		
	Default Pr	reset 1 💌 🗙
CONFIGURATION CHANNEL EQ		Connected
	FILTER SETTINGS	
	Front Left Tweeter	
3 way system enabled	FILTER TYPE High Pass FILTER MODEL Butterworth	
	Lo-P Hz 20 📕 Hi-P Hz 2000	
3 V 4	Lo-P SLOPE 6 dB Hi-P SLOPE 24 dB	
5	INVERT PHASE TIME ALIGNMENT ODO XOVER U/R LINK Clipping with gain ODO	
50Hz 10	l bumped up Hz 500Hz 1kHz 56Hz 10	kHz 20kHz
12dB		
0d8		
-6dB		
-12d8		
-1808		
-24dB		
CHANNEL GAIN 6.00dB 🚔 FREQ 0.00Hz	MAG 0.00dB 🚆 Q-FACTOR 0.01 🚆 0.01 🚆 Q-L/R 🕤 CHANNEL WATERMARK 🌒 🄇	DELETE CLEAR

Figure 6 Channel Equalizer with mater mark

In figure 6 we can see that we have enabled a 3-way system and checked the box for the watermark. We have also bumped up the gain a little on the tweeter and we can now see on the graph that the Eq point we dropped in at 4 KHz has now started to clip.

Individual Speaker Time Alignment

Time Alignment helps to make sure the sound from each speaker arrives at the desired listening position, all at the same time. Normally a measuring tape is required for this task, which you can do with our system BUT for ease and speed of setup, we have devised a very simple 'drag & drop' cross hair time alignment system.



Choose the speaker you want to align, and then drag the green cross hair (pictured in the vehicle image) to the desired listening position.

For example, if you are setting up for the driver's position as optimal performance, and then drag all speakers to roughly where the driver's head will be. If you are setting up for a well-centered sound for all to enjoy, then drag your cross hairs to a centered position just at the edge of the dashboard (Individuals like a different sound position so this is only a recommendation).



Figure 7 Time Alignment Cross Hairs

In figure 7 you can see that we have dragged the left tweeter crosshairs over and in the time alignment section on the right hand side we can see the actual offset in time and distance. The graphical interface uses both metric and imperial for the distance and will gather the regional zone of the computer you are using and do this automatically.

Master Equalization

The DA3 has a master eq. This gets overlaid over all of the channel cross/Eq curves. It is exactly the same operation as the individual channel equalization setup with multiple points, left and right Q –factors and overall master gain control.





Figure 8 Master Equalization

Figure 8 show us a master Eq setup with a number of points added to the adjustment. More points can be added simply by clicking on the graph.

Saving Setups & Presets

The DA will automatically save setups upon a shutdown of the MOST system. This needs to happen 'gracefully' as the user cannot just pull power from the unit as this will not work.

The DA3 has four different presets and these can individually tuned. The channel mapping will remain across all four presets and will also apply default filter setups to the speakers to avoid speaker damage.

You can save a backup of all of your Presets by simply clicking the 'File Button' on the top menu and then 'Save As'. This will save a backup of your setup across all four presets and this file can be used to load in saved settings. ion 0.3.3



Figure 9 Saving Tuned Settings



In figure 7 we can see the user has selected to save the file by selecting the 'File' menu at which point the user can save the tuning session as a *.rax file.

You can also see in the figure that the user was currently tuning preset 1.

It is also possible to pull these presets up using the surround sound modes in the Audi vehicles.



Figure 10 Audi MMI2G Surround Modes to change DA3 presets

Figure 11 Audi MMI3G Surround Modes to change DA3 presets

Vehicle Coding

MMI2G

MMI2G cars do not require coding. All MMI2G cars come with an external amplifier in the system already.

MMI3G

All MMI3G cars require coding! If the vehicle originally had a B&O or BOSE external amplifier then the coding will already be done. However all cars that only have the integrated amplifier and radio combination do require coding for the DA series to work correctly.

The procedure for this can be coded with the VAG diagnostic tools, the Ross-Tech VCDS software suite or any other third party Audi diagnostic tools.

The following sequence outlines the coding required using the Ross-Tech tools. After connecting on the OBDII port, the user need to select the control module needed. The below figure illustrates how to select the control module.



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	VCDS	19875 Codes Loade
	Release 14.10.0	
Select Control Module	Auto-Scan	Service Reminder Interval Res
Select an Individual Control Module such as Engine, ABS, Airbag, etc.	An automatic scan of all controllers for Fault Codes.	Automatically reset the service ligh for oil and inspection.
Select	Auto-Scan	SRI Reset
OBD-II Functions	Applications	Program Options
Generic OBD2 Mode. Retrieve and clear faults and freeze frame, obtain live data.	Features consisting of several basic commands, like transport mode.	Select Comm Port, Set Debug and Protocol Options, etc.
OBD-II	Applications	Options
Abou	ıt f	Exit

Figure 12 Select Control Module

Once the list of controls modules is displayed, the user need to select the CAN-Gateway, otherwise known as the Diagnose interface for Datenbus in the Audi VAGCOM tools. The next figure shows which control module to select for the CAN-Gateway.

VCDS				
	Select Co	ntrol Module		
Common Drivetr	ain Chassis Comfort/C	Conv. Electronics 1 E	lectronics 2 LT3	
05-Acc/Start Auth.	07-Control Head	57-TV Tuner	29-Left Light	
25-Immobilizer	17-Instruments	67-Voice Control	39-Right Light	
75-Telematics	27-Ctrl Head, Rear	77-Telephone	49-Automatic Light	
56-Radio	dio 37-Navigation 09-Cent. Elect.		59-Tow protection	
76-Park Assist	47-Sound System	19-CAN Gateway	69-Trailer	
Direct Entry				
Address Word (01-FF): Go! Go Back				

Figure 13 Select the CAN Gateway

Once the CAN gateway has been selected and the vehicle diagnostics are in communication with the module, the Can Gateway will now have an 'Installation' button that can be selected as seen below in the following figure.

0 /	Open	CDS Controller		
450.007			0111 0511 50	
4F0 907	468 G	Component:	GW-BEM SU	AN-M HU6 0024
Long C	Coding	Shop #:	Imp: 555	WSC 00056
Extra: Geraet 38342				
Basic Functions Advanced Functions These are "Safe" Refer to Service Manual !				
- 02 Rea	adiness - 15	Cod	ling II - 11	Coding - 07
s - 08 Adva	anced ID - 1A	Insta	Illation List	Long Adaptation - 0A
- 18 Adv.	Meas. Values	Outpu	ıt Tests - 03	Security Access - 16
	4F0 907 Long C These are "Safe" - 02 Rei s - 08 Adva - 18 Adv.	/ Open 4F0 907 468 G Long Coding These are "Safe" - - 02 Readiness - 15 s - 08 Advanced ID - 1A - 18 Adv. Meas. Values	/ Open Controller 4F0 907 468 G Component: Long Coding Shop #: Geraet 383 These are "Safe" - 02 Readiness - 15 s - 08 Advanced ID - 1A - 18 Adv. Meas. Values	/ Open Controller 4F0 907 468 G Component: GW-BEM 50 Shop #: Long Coding Shop #: Imp: 555 Geraet 38342 These are "Safe" Advanced Functions Refer to Ser - 02 Readiness - 15 Coding II - 11 s - 08 Advanced ID - 1A Installation List - 18 Adv. Meas. Values Output Tests - 03



Figure 14 CAN Gateway Installation list

The user can select the 'Installation list' and the CAN Gateway will bring up the list of options currently installed in the vehicle. From here it is a simple matter of ticking the 'Sound System' checkbox and saving the configuration.

WCDS Release 15.7.0: 19-CAN Gateway, Installation List		
26 - Auto Roof	~	
27 - Ctrl Head, Rear		Save coding
🗹 28 - HVAC, Rear		
🔲 2E - Media Player 3		Destars existent value
30 - Special Function II		Restore original value
34 - Level Control		
36 - Seat Mem. Drvr		Cancel
37 - Navigation		Cancer
☑ 3C - Lane Change		
3D - Special Function		
3E - Media Player 4		
42 - Door Elect, Driver		
V 4C Central Com.	E	
V 47 - Sound System		
1 40 The Pressure II		
V 4F - Centr. Electr. II		
50 - Seat Adj. 3rd row		
✓ 52 - Door Elect, Pass.		
53 - Parking Brake		
V 56 - Radio	-	

Figure 15 Sound System option 0x47 selected

In addition to this the radio, address 56, also needs to be coded and this is byte 3, bit 0 of the Long Coding string. The coding needed for this can be seen in the following figure using the Long Coding helper.

Controller Info	Den Controller	
VAG Number: 4GD 035 056 J ICDS Release 15.7.0; 56-Radio, Recode Module	Component: Radio U STD 100	
Please write down the original va Incorrect Coding can make	lues before attempting to change anything	
U - 460 035 056 J - Radio Cu	Exi Code 2 Hele	
04000. N	2) Continue with [Arrow down] on keyboard [ESC] will close L Code 3) 04 00 [03 [01] 01 [00 [00 [01] 01	
VorkShop Code (0-99999) 06325 Import	4) Bit 0 17 Binary, 00000001 Bit 1 17 16 Bit 2 17	
Do Iti	Bit 3 - Bit 4 - Bit 5 -	
Detector Tools Fact nav.bd	Bit 6 F Bit 7 F	
om Bluetooth Software New Folder	9 Bytes km	101

Figure 16 MMI3G Radio Coding

Long coding, 56 radio:

- 01 = AM/FM EUR (02 USA)
- 01 = DAB (fixed value) (00 sirius USA)
- 03 = Operational Mode
- 01 = External Amp (02 if internal i.e non B&O)
- 00 = Sound Profile
- 00 = No info
- 00 = No info
- 00 = No info
- 01 = Chassis

The setting for 'external amp' needs to be set to 01.



mObridge Software Update

Updating via the Wizard

All mObridge products can be software updated in the field via USB. This is necessary as sometime vehicle manufacturers do update the software in the vehicle which requires interfaces to be updated also to remain compatible. mObridge also regularly adds features into the software for better user experiences as well as software bug fixes. The mObridge DA products MOST unit can be software updated via its USB connection and use of the mObridge Wizard software interface that runs on Windows PC's.

The Wizard can be downloaded here http://www.mobridge.us/wizard

Once the Wizard has been downloaded, the latest DA software can be applied. The latest software can be found here <u>http://mobridge.us/node/15145</u>

The mObridge DA unit will need to be connected in the car and powered up for the unit to be updated. Once it is connected to the Wizard the user will be presented with the following screen. The user needs to select the USB cable option for the connection as seen below.



Figure 17 Wizard interface selection

When the 'Next' button is clicked the user will then be presented with the USB serial port to connect to the DA unit. This will be called 'FT232R USB UART' and will appear automatically or when the 'scan' button is clicked. It may take a few minutes for Windows to install the driver for the DA unit. Windows will install this automatically. Once the user has selected this USB port they can click next.



mObridge Update Wizard Total Vehicle Integration Grant with the set of the
Select your mObridge iPod adapter cable/USB cable Select your mObridge Pod adapter cable/USB cable from the list below. In most cases there should only be a single device in the list unless you have multiple cables connected to the same PC. The refresh button can be used to refresh the list when a mObridge Pod adapter cable/USB cable is connected/disconnected to a USB port.
FT232R USB UART
I.5.1

Figure 18 Select USB port

Upon selection of this USB port the unit will upload its software version to the Wizard and will be in a connected state. The figure below shows us the software versions of the DA unit and presents the user with a software update button.

mObridge Update Wizard	Vehicle Integration
Connected! You are now connected to your mObridge unit, and can now thrange its configuration or upgrade the software. The current software version information is show in the box to the right. This can be checked against the <u>mObridge velocits</u> to see if you have the lastest version. Press the <i>Configure</i> button to change the settings of the mObridge , such as changing the vehicle type.	Version Information Product: mCbridge MOST PreAmp (M1000-M-DA3) Bootstrap: 1.1.1 Application: 1.7.5 System: 0000.00.3231 Serial Number: 0000000000000
Configure	Update
1.5.2	< <rr><!-- rev Next -->> Finish</rr>

Figure 19 DA software versions

To perform the software update, simply click on the 'Update' button, which will bring the user to the following screen. The user can browse their computer to the location that they have downloaded the update file to. Once selected the user can simply select 'Next' and the unit will update.



	Dridge Total Vehicle Integration Bridging media.communication & Mestyle with your vehicle
Select the file	you would like to program into device.
Open	V:\SW\SW Releases\DAB\0.4.15\M1000-M-DAB_00.04.15.fif
	File Information Product: mObridge DAB/DAB + (M1000-M-DAB) Update Version: 00.04.15
1.5.1	< <prev next="">>> Finish</prev>

Figure 20 Select update file

The Wizard will download the file and then flash the memory of the DA unit. It is important not to remove power during this process! Once this has successfully flashed, then the user can simply click on the 'Next' button and the unit has been updated.

👩 mObridge Update Wizard		×
mObridge	Total Vehicle Integration Bridging media; communication & lifestyle with your vehicle.	
Updating Software!	File Upload Status	
The new software is now being copied to the mObridge device.		
Do not disconnect from power until the operation completes.	Finished	588kB/588kB
	Software Update Status	
	Complete	589kB/589kB
1.5.1	<< Prev Next >>	Finish

Figure 21 Software Update Complete

Updating via the DSP Graphical Interface

The mObridge DA products MOST unit can be software updated via its USB connection and use of the mObridge DSP software interface that runs on Windows and Mac PC's.

The DSP GUI can be downloaded here http://mobridge.us/node/15213

Once the GUI has been downloaded, the latest DA software can be applied. The latest software can be found here <u>http://mobridge.us/products/da3-dsp-professional</u> and here <u>http://mobridge.us/products/most-analog-pre-amp</u>

The mObridge DA unit will need to be connected in the car and powered up for the unit to be updated. Once it is connected to the DSP GUI the user will be presented with the following screen.





Figure 22 DA is connected to the DSP GUI and we can click on 'Connected'

Once the DA is connected via the GUI we can just click on the 'Connected' in the top right hand corner and this will bring us to the update page a seen below.



Figure 23 Click on 'Manual Update' and select the file

The user then needs to click on the 'Manual Update' button and select the new DA3 firmware file to update to and the update procedure will begin as seen in the next figure.



MOBRIDGE M1000-M-DA SERIES | INSTALL NOTES

beraut - muonage Usir - version U.S.3	
File	
1	Octavil Preset 1
CONFIGURATION CHANNEL EQ	
Comment of the second of	
Uploading	

Figure 24 DA3 update in progress

Once the update has completed, the DA unit will reboot and start the system again. Sometimes it is a good idea to let the car sleep after the firmware upgrade as some MOST systems do not like ECU's resetting on the MOST bus.

