



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ALPINE MRD-M500. You'll find the answers to all your questions on the ALPINE MRD-M500 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ALPINE MRD-M500  
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**STEP 6. (6) TIME CORR. (Time Correction)**  
Due to the wide variety of installation and system design possibilities available, bass performance may not always be optimized as a result of speaker placement relative to the listening position. Sound waves may not reach the listener's ear at the same time as other speakers, especially in a multiple subwoofer configuration. Such differences in phase can result in muddy (unclear) bass or even a complete cancellation in the frequency response. Therefore, both the MRD-M300 and MRD-M500 are equipped with Digital Time Correction, making it possible to realign subwoofer(s) in time. Proper use of this function will result in clear, powerful bass with a smooth transition to the other speakers in the system. It is recommended to use the calculation formula provided in the owner's manual as a starting point for this adjustment.

**STEP 7. (7) PHASE**  
Phase control allows you to flip the polarity of the subwoofer without actually reversing the physical connections. This convenient feature is useful when the subwoofer is in a position that could result in some cancellation, causing diffused, unclear bass. It is recommended to try both settings (0° / 180°) to determine which is best for your particular system.

**STEP 8. (8) AMP SET (Amplifier ID No. / Turn-On Delay)**  
The Amp Set menu performs two functions. Firstly, by setting the amplifier ID number (1-8), it allows the optional RACC (RUX-4280 Remote Amplifier Control Center) to identify each amplifier individually and in a specific order. Secondly, it provides a variable turn-on delay that can be used to minimize inrush current in large multi-amp systems, or to eliminate any "turn-on" pop.

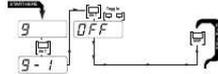
**NOTE:** If using a RUX-4280 (RACC) with more than 1 AccuClass-D amplifier, be sure to set each amplifier with a different ID Number (1-8). Amplifiers with the same ID will cause the RACC to display "NO AMP".

**STEP 9. (9) OUTPUT DISABLE**  
Previously known as "Soft Mode", this feature provides a simple way to safely adjust the all DSP functions with the amplification circuit turned off, eliminating the possibility of speaker damage during setup. When set to "ON", it literally disables the high current draw output stage of the amplifier, while leaving the input and processing sections active. Please note that this is the only amplifier function that does not engage/disengage in real time, but requires the remote lead to be cycled off/on for the selection to take effect. Therefore, if it is accidentally set to "ON" during programming, there will be no output the next time the amplifier is activated. Additional uses include: bench setup with a low current DC power supply, amp voicing, tuning or troubleshooting larger multiple amp subwoofer systems, etc.

**SETTING SAFE MODE TO "OFF"**

- Press and depress the "MODE" button until you see:
- In mode "9" Output Disable.
- Run "ON" and press "ENT" again to select "9-1" (OFF / OFF).
- Right to "OFF" is displayed.
- Run "DSP" to exit.

*Note:* This setting will not take effect until the amp is turned off and then on again.



**STEP 0. (0) MEMORY**  
Memory Mode allows you to store all amplifier settings in an auxiliary backup memory. Once stored, additional tweaks or adjustments can be made while retaining the ability to recall the original settings at a later time. Note: This is simply a convenience feature, since all settings are made in real time as adjustments are made, and will remain even if power is lost during setup.

**Typical causes for little or no output**

- 1) **Output Disable is on:** Go to Step 9 (Mode 9 on the amp) and set to "OFF", then cycle amp power.
- 2) **Subsonic and LPF frequency selections overlap or are too close together:** Adjust the crossover properly.
- 3) **If using RUX-4280 (RACC) remote subwoofer level is turned down:** Make sure the RACC is in normal display mode (voltage or temperature) and adjust the level control.
- 4) **Defective or broken RCA cables:** Replace RCA connectors.
- 5) **Blown fuse:** Replace Fuse with proper value.
- 6) **Remote trigger is not a d.c.:** Check remote turn-on lead with a voltage meter.
- 7) **Bad ground or power connection:** Check and replace ground connector.

To find out more, visit [www.alpinetechno.com](http://www.alpinetechno.com)



## V12 AccuClass-D Setup Guide For MRD-M300, MRD-M500 and MRD-M1000 Amplifiers

Congratulations on your new V12 AccuClass-D™ amplifier purchase. Before you get started, there are a few things you should know about this unique amplifier that will help you optimize performance for your personal tastes or particular application. Unlike traditional designs, the V12 AccuClass-D™ amplifier employs a completely digital internal architecture, utilizing both advanced DSP (digital signal processing) and amplification technologies. This innovative design not only offers unparalleled tuning capability and accuracy, but also allows direct digital coupling to the power output stage for cleanest and most powerful bass possible. As with any amplifier however, proper setup is essential if you are to maximize your listening experience. Please read the quick explanation and setup procedure for each feature listed on the following pages.

**Important notes:**

- To maximize the output power from this amplifier, you must use a 2 ohm load.
- Before adjusting the amplifier settings, set the signal source (head-unit) level to minimize distortion.
- It is best to utilize music that will represent your typical heavy bass listening scenario when adjusting levels.

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**Manual abstract:**

(6) **TIME CORR.** (Time Correction) Due to the wide variety of installation and system design possibilities available, bass performance may not always be optimized as a result of speaker placement relative to the listening position. Sound waves may not reach the listener's ear at the same time as other speakers, especially in a multiple subwoofer configuration. Such differences in phase can result in muddy (unclear) bass or even a complete cancellation in the frequency response. Therefore, both the MRD-M300 and MRD-M500 are equipped with Digital Time Correction, making it possible to realign subwoofer(s) in time. Proper use of this function will result in clear, powerful bass with a smooth transition to the other speakers in the system. @@@@This convenient feature is useful when the subwoofer is in a position that could result in some cancellation, causing diffused, unclear bass. It is recommended to try both settings (0°/180°) to determine which is best for your particular system. STEP 8. (8) **AMP SET** (Amplifier ID No.

/Turn-On Delay) The Amp Set menu performs two functions. Firstly, by setting the amplifier ID number (1-8), it allows the optional RACC (RUX-4280 Remote Amplifier Control Center) to identify each amplifier individually and in a specific order. @@@@ (9) **OUTPUT DISABLE** Previously known as "Safe Mode", this feature provides a simple way to safely adjust the all DSP functions with the amplification circuit turned off, eliminating the possibility of speaker damage during setup. When set to "ON", it literally disables the high current draw output stage of the amplifier, while leaving the input and processing sections active. @@@@As with any amplifier however, proper setup is essential if you are to maximize your listening experience.

Please read the quick explanation and setup procedure for each feature listed on the following pages. **TM SETTING SAFE MODE TO "OFF"** · Press and depress the "MODE" button until you are in mode "9" (Output Disable). · Push "ENT" and push "ENT" again to select "9-1" (ON/OFF). · Toggle until "OFF" is displayed. · Push "DISP" to exit.

Note: This setting will not take effect until the amp is turned off and then on again. Toggle **ENT DISP ENT F I N I S H STEP 0.** (0) **MEMORY** Memory Mode allows you to store all amplifier settings in an auxiliary backup memory. Once stored, additional tweaks or adjustments can be made while retaining the ability to recall the original settings at a later time. Note: This is simply a convenience feature, since all settings are saved in real time as adjustments are made, and will remain even if power is lost during setup. Important notes: · To Typical causes for little or no output 1) Output Disable is on: Go to Step 9 (Mode 9 on the amp) and set to "OFF", then cycle amp power. @@@@Contents 1 **INPUT MODE** No. @ @ON/OFF **DELAY TIME** 0/180 ID No. **TURN ON DELAY ON/OFF WRITE READ STEP 3.** @@@@ · Push "ENT" to enter "3".

Push "ENT" to enter "3-1" (ON/OFF). · Toggle to "ON" setting and push "ENT". · Push "ENT" to enter "3-2" (**FREQUENCY**). · Toggle to desired frequency. @@@@**TIME CORR.** @@@@**INPUT LEVEL** (mode 1-2) allows the A/D converter's input to be optimized for the best possible signal clarity and volume range. Setting this overly sensitive or severely clipping the input can result in very high distortion, so it is best to use the clipping indicator as general guide. **GAIN FACTOR** (mode 1-3) is provided for special cases where additional gain is still required after all other adjustments have been made. @@@@ · Push "ENT" enter "1". Push "ENT" to enter "1-1" (**SELECT**).

· Toggle to select "1ch" or "2ch". Push "ENT". @@@@ · Push "ENT" to enter "1-3" (**GAIN FACTOR**). Push "ENT". @ @ · Press "MODE" to advance to step 2 below.

**ENT ENT ENT STEP 1.** (1) **INPUT STEP 4.** (4) **PARAMETRIC EQ** (Frequency, Width (Q), and Level) Using the Parametric EQ is a good way to fine tune your subwoofer or adjust for personal taste. Unlike traditional bass boost or graphic EQ's, both the center frequency and width of the EQ band is user selectable, allowing it to be custom tailored for the desired effect. As you can see in example [3], with the subsonic and low pass filters engaged, you can enhance your sound by focusing on a high energy bass response in the vehicle.

@ @ · Push "ENT" to enter the adjustment menu. · Push "ENT" to enter "4-1" (ON/OFF). @ @ (**FREQUENCY**) · Toggle to desired freq. and push "ENT". · Push "ENT" to enter "4-3". @ @ @ @ (2) **LPF** (Low Pass filter) Eliminating unwanted higher frequencies is essential for optimizing subwoofer performance and integration with the rest of the system. Selecting the appropriate cut off frequency of the low pass filter will depend upon the application, so a wide frequency range (30Hz-200Hz) is provided to choose from. Please note however, that if the selected frequency is very close to or overlaps with the subsonic filter, it will result in little or no output. Also, if an external crossover is used, the internal filter can be turned off. **ADJUSTING THE CROSSOVER** · You should be in mode "2" (LPF) now from the previous step.

· Push "ENT" to enter "2". · Push "ENT" to enter "2-1" (ON/OFF). · Toggle to "ON". Push "ENT". · Push "ENT" to enter "2-2" (**FREQUENCY**). · Toggle to desired frequency. &



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