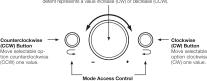
MS-A5001 USER CONTROLS

ites clockwise (CW) and counterclockwise (CCW). Each nt represents a value increase (CW) or decrease (CCW).



Pressing both the left and right butto taneously for specified time periods: various modes of the amplifie

MS-A5001 SETTINGS GUIDE
INITIAL SETUP
Activating the Controls
Press both CCW and CW buttons at the same time for less than three seconds, and release the buttons to activate the controls.
The adjustment-selection indicator & will light up. Use the CCW and CW buttons to move the indicator to the parameter that you wish to adjust. After you've made your adjustments, and the controls have been inactive for more than 30 seconds, the selection-indicator light will go out, and the controls will become deachingted to prevent unrefinetional adjustment of the amplifier's controls.



Setting the Input Mixer

Ance the controls are active, press the CW or CCW button until the input mixer

selected for channels 1 and 2. Turn the rotary control to select the input
connector(s) that will feed output channels 1 and 2.







Setting the Input Level, and Enabling or Disabling Signal-Sensing Turn-On BEFORE YOU BEGIN If the factory-installed system to which you have connected your MS-series amplifier shows a "speaker disconnected" error message or falls to provide an output signal, move the input-level switch to the Hi2 position. You may need to turn the vehicle or the factory-installed head unit off and then back on to reset the error message.



NOTE: DO NOT USE THE HIZ SETTING WITH THE RCA OUTPUTS OF AFTERMARKET HEAD UNITS!

- To Set the Input Level:

 Move the input-level control to the Hi position (or Hi2 if you are connecting to a factory-installed sys-

- I does use impul-level control to the Hi position (or Hi2 if you are connecting to a tactury-misuseux system with open-circular protection).

 2. Set with open-circular protection.

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 2. Set with open-circular protection.

 3. Set with open-circular protection.

 4. Set with open-circular protection and taken controls on your head unit to the center for fish positions. Set out of sets of the fisher any sound-enhancement eatings (such as DSP, surround sound or EU).

 5. Insert the setup node by pressing CW and CCW buttons simultaneously for more than three seconds until the injust-level adjustment clinn in III billionistees. The amplifier's output will be muted (output-level indicator will show " in the display).

 6. Using a small screwdriver on the level adjustment clin level to the input switch, adjust the input-level control up or down while watching the icons on the amplifier's display pracel.





Note: If turning the control fully clockwise doesn't cause the lacktriangle icon to light, move the inputive $a_n = a_n$ level control to the "Lo" position and try again. Once the occupied icon lights up, stop adjusting. Repeat the procedure for the input-level control on the other channels. When both check marks light up, you have properly set the input levels for each channel pair

- channels. When both check marks light up, you have properly set the input levels for each channel p
 Te Enable or Disable Signal-Sening Turn-Or.

 7. While in sating mode, enable or disable signal-sensing turn-on
 by turning the Rotary Corntrol toloxiews or countercoloxiews to
 select "SEn On" or "SEn OFF" in the display. If you have
 connected a remote turn-on lead, set to "SEn OFF"

 8. Turn the volume control on your head unt down and remove
 the setup DO. If you miss or circumvent this step, the audio system will reproduce a Journal
 that could damage your speakers when you exit the setup mode.

 9. Press and release the OW and COV buttons similatenously to exit the setup mode.

 10. Do not adjust the input-level controls further. Use the output-level control to balance the channel
 levels and to Turn-th' the system.

SETTING THE FILTERS (CROSSOVERS)
There are 98 selectable frequencies for the low-pass and high-pass filter settings. The selectable frequencies are detailed in the table to the right.

Getting to the Crossover Settings Press both CCW and CW buttons at the same time for less than three seconds; release the buttons to activate the contri Use the CCW and CW buttons to navigate to your preferred crossover-adjustment parameter.

Available Crossover Frequency Settings
20.0142 40.0142 80.0143 80.0142
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20.0142 40.0145 80.0143 80.0143
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30.0145 50.0147 70.0144 80.0143
30.0145 50.0147 70.0147 80.0143
30.0145 50.0147 70.0147 90.0143 How to Set a High-Pass Filter
Navigate to the high-pass filter frequency parameter. * Using the
rotary encoder, select the desired cutoff frequency. Then navigate to
the high-pass filter slope parameter * and, using the rotary encoder,
select the desired filter slope.

High-Pass Example
Use the CW and CCW buttons to navigate to the low-pass frequency parameter and set to "OFF."



How to Set a Low-Pass Filter
Navigate to the low-pass filter frequency parameter */* and, using the rotary encoder, select the desired
cutoff frequency. Then navigate to the low-pass filter slope parameter */* and, using the rotary encoder
select the desired filter slope. Low-pass Example
Use the CW and COW buttons to navigate to the high-pass frequency parameter and set to "OFF."



How to Set a Band-Pass Filter
To build a proper band-pass filter, the low-pass frequency.
To build a proper band-pass filter, the low-pass frequency. The MS-A501
Well of allow you to set the low-pass filter frequency. The MS-A501
Well not allow you to set the low-pass filter frequency. To enable a band-pass filter, first select the high-pass filter frequency and slope as indicated above. Not, select the low-pass filter frequency and slope. Once the settings are complete, the controls will time out after 15 seconds.

OUTPUT LEVELS
Setting the Output Level

Use the output-level control to adjust the balance between the subwoofer and the full-range speakers, between the front and rear speakers, or between the midrange, mid-base or tweeters in a bi-amped or tri-amped gall actively setzer. The output level is adjustable to 10-058 increments, with a deplay of 80 indicating maximum output. The lowest setting will muste the output and " " will show in the deplay and the setzer of the control of the co

To set the output level, press the CW or CCW buttons to highlight the output-level parameter for adjustment, and turn the rotary controller to adjust the output level.

WIRELESS BASS CONTROL

Overview
The MS-WBC wireless bass control (sold separately) is battery-powered;
if also includes a +12V plup that can be connected to a +12V source in your
vehicle. The MS-WBC transmiss again of vily when the control is rotated. The
amplifiers) must be on to receive and respond to the control. Adjustments
made to the control when the amplifiers) use of its ref. trecgnized.



Press and hold both CCW and CW buttons simultaneously for more than three seconds and the ampitter will enter Setup mode. Continue pressing the buttons for four more seconds until the paring indicator QDI is illuminated. Release the CCW and CCW buttons.

Pairing must occur within 15 seconds. The time remaining is indicated at the far right of the display. Turn the knob on the bass controller during this 15-second period. The amplifier will recognize the controller, and the controller will automatically pair the two together. After a successful pairing, the upper high-pass filter digits will display the bass controller version number for 3 seconds. Then the amplifier will return to the normal (Run) mode.

If a valid pairing has not occurred, the amplifier will remain unpaired. After the 15-second countdown, the amplifier will return to the setup mode.

If your system includes several MS-series amplifiers, pair them one at a time. Once all the amplifiers are paired and have returned to the normal (Run) mode turn the knob to synchronize all of the amplifiers.

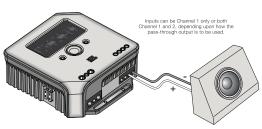


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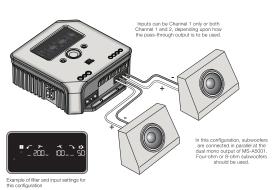
SYSTEM DIAGRAMS



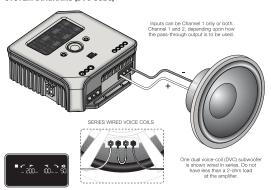


uninguration, a single subwoofer is connected at one of the MS-A5001 outputs. A 4-ohm or 2-ohm subwoofer can be used.

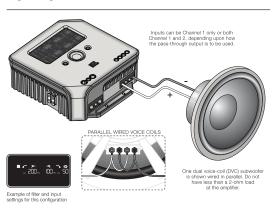
Example of filter and input settings for this configuration



SYSTEM DIAGRAMS (DVC SUBS)

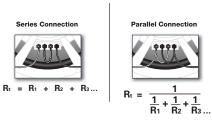


Example of filter and input settings for this configuration



CALCULATING SPEAKER LOADS

Use these formulas to calculate total series or parallel resistance of multiple speakers or voice coils on the MS-A5001 amplifier. "Pl" with a number denotes each nominal voice-coil impedance (such as R₁ and R₂). R₁ is the total combined nominal impedance presented to the amplifier. Never connect loads below a total of 2 ohms.





SPECIFICATIONS

Power output CEA® 2006

500W RMS x 1 channel @ 4 ohms 500W RMS x 1 channel @ 2 ohms

Bridged mode Signal-to-noise ratio Frequency response Maximum input sensitivity Maximum input voltage Dimensions (L, x W x H)

80dB 106dB 20-270Hz

Beauty carton dimensions

13-15/16" x 11-9/16" x 10-5/16" 354mm x 294mm x 264mm

Gross weight (with beauty carton) 3



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HARMAN

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