



McCORMACK AUDIO

BEYOND YOUR EXPECTATIONS, WITHIN YOUR REACH.

INTRODUCTION

Thank you for purchasing the MAP-1 Multi-Channel Analog Preamplifier. This preamplifier is handcrafted with top quality, highly reliable component parts. We are confident that you will be well satisfied with its sonic performance and find pleasure in its functional beauty.

Before you enjoy these experiences, however, please take a few minutes to read this Owner's Manual and acquaint yourself with the instructions for optimal operation. This will ensure your listening pleasure today, and for many years to come.

OPERATING INSTRUCTIONS

UNPACKING - Be sure to save the original box and packing materials. Store them in a dry environment. It is best to use the original packaging should you need to transport or ship the MAP-1.

INSTALLATION - Place the MAP-1 as close as possible to its final installation location, while leaving yourself access to the rear panel. Choose a location with at least a few inches of ventilation space around the chassis.

LINE-LEVEL STEREO SOURCE CONNECTIONS

There are 3 line-level stereo inputs labeled PH/AUX2, CD, and AUX1 for your convenience. Connect your line-level stereo sources (CD, DCC, Mini-Disc, VCR, tuner, cassette deck, phono preamplifier, etc.) to the input of your choice on the rear panel. If you have purchased the optional phono stage, then you must use the PH/AUX2 connectors for your turntable. If not, then use this input for any line-level source you choose.

MULTI-CHANNEL SOURCE CONNECTIONS

Your MAP-1 has provision for two sets of multi-channel inputs, labelled DVD/MC1, and MC2. These allow for the connection of two separate 6-channel sources (eg. DVD-A and SACD players). Each multi-channel source is pro-

vided with 6 inputs, arranged in three pairs labelled Left Front/Right Front, Center/Subwoofer, and Left Rear/Right Rear. If you will only be using one multi-channel source, the other input can be used as an additional stereo input – just make your connections to the Left Front and Right Front inputs.

TAPE RECORDER CONNECTIONS

The MAP1 includes a stereo pair of RECORD OUT connectors to provide for recording from the stereo inputs. Connect to the inputs of your tape recorder.

AMPLIFIER CONNECTIONS

Be certain your power amplifiers are all turned OFF, then connect to the MAP-1's 6-channel outputs.

NOTE - The MAP-1 uses high-quality RCA phono jacks for input and output connections. Please remember that selecting high quality cables for use with this revealing component will result in superior sonic performance from your system. Your McCormack dealer will guide you in making this important component choice.

The MAP-1 has a 12-volt dc output (TRIGGER OUTPUT) which will function as a remote power switch for a DNA-HT5 or any other power amplifier equipped with a dc trigger input. Connect a twin-lead wire between the trigger output on the MAP-1 and the trigger input on your amplifier, taking care to observe voltage polarity. With this connection made and the trigger circuit on your amplifier enabled, the STANDBY switch on the MAP-1 will switch your power amplifier on and off.

The MAP-1 uses a removable 3-wire grounded AC power cord. Plug the AC power cord into the MAP-1, then plug the other end into an appropriate wall socket.

When all connections are made, move the MAP-1 to its permanent location. Check again to be certain that all plugs are fully inserted, making tight connections.

When first powered up, and with restoration of service after a power outage, the MAP-1 starts in Standby Mode.

Press the button labeled STANDBY to begin normal operation. The MAP-1 will switch to its default settings, with DVD input selected and a level setting of 50.

BREAK-IN PERIOD

Your MAP-1 has already been burned in at the factory. However, like all high quality components, it will still require a break-in period of approximately 100 hours before it will sound its best. When not in use, switch the MAP-1 to Standby mode which will shut down the displays and mute the outputs while keeping the audio circuits powered.

FUNCTION

The MAP-1 has two basic modes of operation: *Listening Mode* and *Set-Up Mode*. In *Listening Mode*, you may listen to multi-channel sources or to stereo sources. When listening to any of the three stereo sources, an Ambience Retrieval Mode (ARM) is available which will synthesize six channel sound from a two-channel source. When properly adjusted, ARM can create a very convincing acoustical environment, especially on live recordings. (We recommend adjusting the ARM settings so that the rear channels are barely audible, only contributing a sense of space to the playback).

The *Set-Up Mode* is used to adjust the relative levels of the six channels for multi-channel sources, and for ARM.

DISPLAY

The MAP-1 display has two 3.1 digit displays (the decimal point is used to indicate .5 dB steps). In *Listening Mode*, these displays show the levels of the left and right channels. In *Set-Up Mode*, the left display indicates the channel that has been selected for adjustment, and the right display shows the overall level when Left Front (LF) is selected, and otherwise shows the offset (in dB) of the selected channel relative to the Left Front.

CONTROLS

All front panel and remote controls are "tactile" switches which operate by pressing and releasing.

STANDBY (front panel only) - This button will toggle the MAP-1 in and out of Standby Mode. In Standby Mode all displays are turned off except for the Standby and source leds and the trigger output is switched off. When switching out of standby mode, the MAP-1 returns to the previously selected source and level settings (or default settings at power-up) and the trigger output is switched on.

BALANCE < > (front panel and remote) -- In *Listening Mode*, these controls shift the balance to left or right in increments of .5 dB. Both Front and Rear channels are adjusted by alternately lowering one channel, then raising the other, leaving the overall level virtually unchanged. Center and Subwoofer outputs are unchanged. In *Set-Up Mode*, the BALANCE controls select the channel that is being adjusted. When setup is toggled on with one of the multi-channel inputs selected, or one of the stereo inputs in ARM, LF is the initial setting. Pressing [>] steps forward through Center (C), Right Front (RF), Right Rear (RR), Left Rear (LR), Subwoofer (S) then back to LF. Pressing [<] steps through the sequence in reverse.

Channel offsets are retained in system memory as long as the ac mains power is maintained. The settings will be lost if the unit is unplugged or if there is a power outage. There are two separate memory registers, one for the settings for your multi-channel inputs, and a separate memory register for the settings for the ARM setup. Typically, the LF, C, RF, RR, and LR channels are adjusted for equal levels for the multi-channel sources, whereas you will most likely want to attenuate the center and rear channels in ARM mode.

VOLUME - + (front panel and remote) -- The level control adjusts all six channels up and down together in *Listening Mode*, and with the Left Front channel selected in *Set-Up Mode*. For the remaining five channels in *Set-Up Mode*, the level control adjusts the relative level (relative to the Left Front Channel) of the selected channel.

MUTE (front panel and remote) - The MUTE circuit mutes the main outputs of all six channels, but does not affect the TAPE outputs.

SETUP (front panel and remote) -- This switch toggles the MAP-1 between *Listen* and *Set-Up Modes*.

ARM (front panel and remote) -- Pressing the ARM switch with a stereo source selected toggles between Stereo and Ambience Retrieval Mode. In Ambience Retrieval Mode the Center, Subwoofer and Left and Right Rear channels are derived from the Left and Right channels of a stereo source. Note that ARM is not available on any source connected to the two multi-channel inputs.

SELECT (front panel only) -- Pressing this switch steps sequentially through the five main inputs (DVD/MC1, MC2, AUX2, CD, PH/AUX1). An led illuminates to indicate the selected source.

CD, VIDEO, TUNER, TAPE, PH/AUX (remote control only) - On the remote control, the five main inputs may be directly accessed by pressing the associated button.

TROUBLESHOOTING

If you experience loss of power, signal, or indicator lights, check your cable connections and AC line cord carefully. Test your AC outlet to make sure it is supplying power. Check the AC line fuse located on the rear panel to make sure it is intact. The fuse is located in a tray in the AC power cord receptacle, located in the lower left corner on the back of the chassis. The top section accepts a 3-prong power cord plug. Below that is a small tray which is divided into two sections, front and back. The back section holds the active AC line fuse; the front section holds a spare fuse. To open this tray, remove the power cord plug, insert a small screwdriver in the slot at the top of the drawer and pull out. If the fuse has blown, replace it once with the correct replacement fuse. Use only the correct replacement fuse value and type. The correct fuse for each voltage standard is listed in the specifications below. Check for proper operation. If the fuse blows again you will need to arrange to have the unit serviced.

There are no user serviceable parts inside the MAP-1. Contact your McCormack Dealer for service options.

SPECIFICATIONS

Line Amplifier Section

Gain: 20 dB

Bandwidth: 0.5Hz-300kHz +0,-3dB

Maximum Output: 3 v rms

THD: less than .1 % at 1.0 v rms out

Hum and Noise: 100 dB below 2.5 v rms out

Signal Polarity("Absolute Phase"): Non-inverting

Output Impedance: less than 100 ohms

Input Impedance: 13.5 kohms

Optional Phono Stage

MM Phono Sensitivity: 5mv for 0.5v @ 1kHz

MC Phono Sensitivity: 0.9mv for 0.5v @ 1kHz

MM & MC Phono Overload: 200mv

MM & MC Phono Input Capacitance: Adjustable (minimum = 100pF)

MM & MC Input Load Resistance: Adjustable (maximum = 47.5k ohm)

MM S/N: -80dB relative to 10 mv input

MC S/N: -75dB relative to 1 mv input

Fuse:

120 volt ac line: 200 ma 5 x 20 mm "t" type

240 volt ac line: 100 ma 5 x 20 mm "t" type

Mechanical

Dimensions: 19"W, 3.5"H, 11.25"D

Weight: 18 lbs.