



McCORMACKAUDIO
BEYOND YOUR EXPECTATIONS, WITHIN YOUR REACH.

Thank you for purchasing a McCormack Audio DNA-500 Power Amplifier. This amplifier was hand crafted with top quality, highly reliable components. 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 box and packing materials. Store them in a dry environment. It is best to use the original package should you need to transport your DNA-500 power amplifier.

INSTALLATION — Place your DNA-500 on a stable surface in a location which allows adequate ventilation. If it is sitting on a carpet, use either a flat board or Tiptoes underneath to keep the ventilation slots unobstructed. Do not locate it in direct sunlight or expose it to extremely high temperatures. Allow at least four inches of open space on each side, and six inches of open space both above and behind. In a stack of components, place it only at the top or the bottom. Do not block the ventilation slots on the top or bottom and be sure to allow an unobstructed air flow across the heatsinks.

Position the DNA-500 as close as possible to its final installation location, while allowing access to the back panel connectors.

CONNECTIONS — The DNA-500 uses standard RCA phono jacks for "single-ended" input connections, XLR jacks for "balanced" input connections, and binding posts for output connections. Please remember that selecting high quality cables for use with this revealing component will result in superior sonic performance from your system.

IMPORTANT! Always turn the amplifier off and allow 2 minutes for the power supplies to discharge before making connections to the amplifier. Always install the interconnect cables first

when connecting an amplifier, and remove them last when disconnecting an amplifier. This will prevent potential damage to the loudspeakers in case the power supply has not fully discharged.

1. Install interconnect cables from the main output of your preamplifier to the input RCA jacks or XLR connectors located on the rear panel. Please note the channel designators, and be certain the plugs are fully inserted, making a tight connection. Note: use only one type of connection - DO NOT connect both RCA and XLR connectors. The unused connection must NOT be terminated in any way (DO NOT use shorting plugs).
2. Check again to be certain the DNA-500 power amplifier's power switch is turned off.
3. Install suitable speaker cables from your speaker's input connectors to the output connectors located on either side of the rear panel. Note the channel and polarity designators. When finished, recheck that all connections are correct and tight. Note: do not connect the amplifier outputs to any system in which the negative terminal is connected to a common ground (as may be the case with some speaker switching systems). The output stage is balanced, so grounding EITHER the positive or the negative output connection will create a short circuit condition.
4. Check that the power switch on the front panel is in the off position. Plug the AC power cord into the DNA-500, then plug the other end into an appropriate wall socket.
5. Move the DNA-500 to its permanent location. Check that your system's volume control is turned down all the way. Turn on the front panel power switch. Your DNA-500 power amplifier is ready for operation.

BREAK-IN AND WARM-UP PERIODS — Your DNA-500 has already been burned in at the factory. However, like all high quality components, it will still require a break-in period of approximately 50 hours before it will sound its best. The DNA-500 is always ready to play when turned on, but it will not settle into optimal operation for at least 30 minutes.

FUSES

AC MAINS FUSE—This fuse is in a fuse holder located just above the AC power cord receptacle. The correct fuse type and value are indicated on the rear panel. Replace it only with the correct type and value. If the fuse blows again immediately or after a short time, do not continue replacing it, as a fault condition exists which must be corrected.

B+/B- POWER SUPPLY "RAIL" FUSES —These are the eight fast-blow fuses mounted near the heatsinks on the circuit boards inside the chassis. These fuses are numbered F1 through F4 on each channel. To replace these, first unplug the AC power cord from the DNA-500 power amplifier, then remove the screws holding the top cover in place and lift it off. Replace these fuses only with the same value and type fuse: 5mm x 20mm 10 amp F10 (fast blow).

HIGH VOLTAGE POWER SUPPLY FUSES — There are two fuses protecting the high voltage power supplies for each channel. These are numbered F5 and F6 and are located near the center of the chassis on each pc board. These fuses are 5mm x 20mm T315mA (slow blow). A blown fuse here is a symptom of a more serious problem, calling for factory service.

SPECIFICATIONS

Output Power: 500 watts per channel into 8 ohms, and 900 watts per channel into 4 ohms, both channels driven from 20 Hz to 20 kHz at less than 1% THD.

Input Impedance: 10 kOhms

Input Sensitivity: 2.25 Vrms

Voltage Gain: 29 dB

Signal-to-Noise: 105 dB

Harmonic Distortion (1 KHz, 8 ohm load): .05%

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

Power Requirements (117V/60HZ):
1.4 Amps /170 Watts @ Idle,
13.0 Amps/1560 Watts @ Clipping (8 ohms)

Dimensions: 19" W x 6 7/16" H x 19 3/4" D

Shipping Weight: 69 lb.

TROUBLESHOOTING GUIDE:

Problem: Amplifier does not operate and indicator light does not light at all.

Check AC power cord connections (both ends). Check the AC outlet for power.

If the AC connections are proper and the outlet is live, check the AC line fuse, replacing if necessary. Retest the amplifier. If the AC line fuse blows again, contact your dealer for servicing information.

Problem: Amplifier does not operate, or one or both channels are highly distorted; indicator light comes on.

Check the condition of the B+/B- rail fuses. Replace any blown fuses. Turn on the amplifier and check operation. If the B+/B- rail fuses have blown again, contact your dealer for servicing information.

Problem: Amplifier turns on normally, but no sound is produced.

Check all connections carefully. Check your preamplifier's input, mute, and volume settings.

If you have any questions regarding the DNA-500 power amplifier, please contact your McCormack Audio Dealer.