



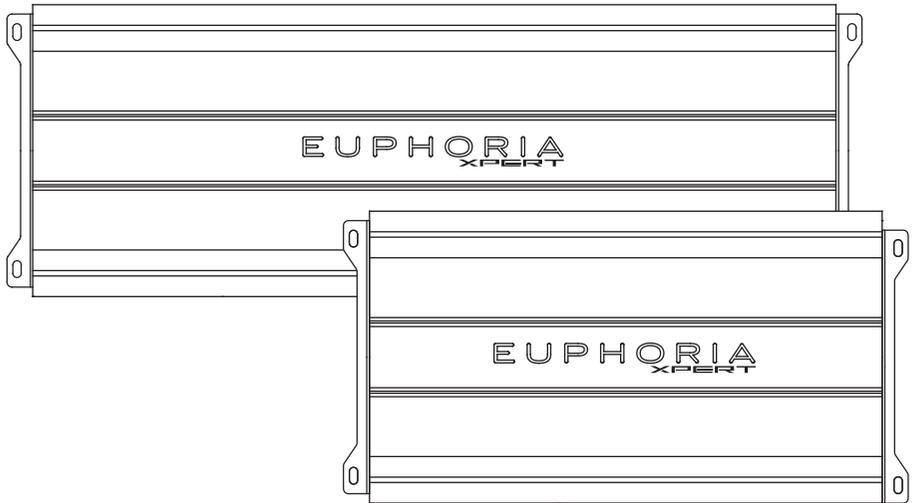
EUPHORIA™

XPERT™

M I N I

EXM3000.1 : EXM2000.1
FULL RANGE CLASS D MONOBLOCK

EXM900.4 : EXM400.4
4 CHANNEL FULL RANGE CLASS D



USER MANUAL

Installation Instructions | Owner's Manual

1.1 AMPLIFIERS' SPECIFICATION

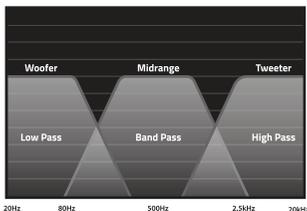
AMPLIFIERS: EXM900.4, EXM400.4

| SPECIFICATIONS | EXM900.4 | EXM400.4 |
|-----------------------------------|------------------------------------------|------------------------------------------|
| Rated Power: | 4Ω @ 14.4 Volts & 1% THD : 4 x 450 Watts | 4Ω @ 14.4 Volts & 1% THD : 4 x 200 Watts |
| Rated Power: | 2Ω @ 14.4 Volts & 1% THD : 4 x 900 Watts | 2Ω @ 14.4 Volts & 1% THD : 4 x 400 Watts |
| Rated Power: | 4Ω (Bridged): 2 x 1800 Watts | 4Ω (Bridged): 2 x 800 Watts |
| Working Voltage | 10 ~16Volts | 10 ~16Volts |
| Frequency Response: | 10Hz - 24KHz | 10Hz - 24KHz |
| Signal to Noise Ratio: | <85dB | <85dB |
| Damping Factor: | 100dB< | 100dB< |
| Low Level Input: | 6V - 0.2V | 6V - 0.2V |
| Ch 1/2 High Pass Filter Variable: | 20Hz - 8KHz | 20Hz - 8KHz |
| Ch 1/2 Low Pass Filter Variable: | 50Hz - 8KHz | 50Hz - 8KHz |
| Ch 3/4 High Pass Filter Variable: | 20Hz - 8KHz | 20Hz - 8KHz |
| Ch 3/4 Low Pass Filter Variable: | 50Hz - 8KHz | 50Hz - 8KHz |
| Minimum Working Impedance: | 2Ω | 2Ω |

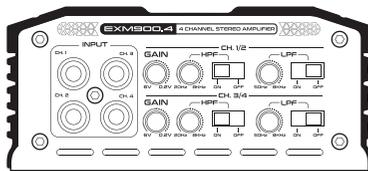
2.1 AMPLIFIER'S CONTROL & CONNECTION.

EXM900.4

Selectable 12dB 3-Way Active Crossover

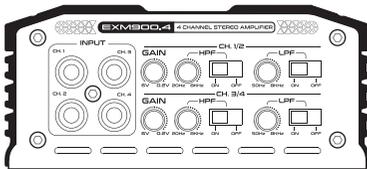


HIGH-PASS FILTER



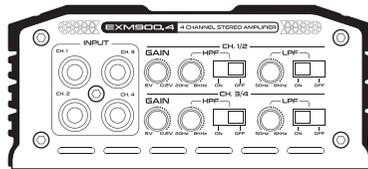
- Select only the HP crossover filter for High-Pass functions.

BAND-PASS FILTER

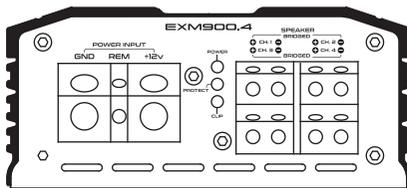


- Select both HP and LP crossover filters for Band Pass functions.

LOW-PASS FILTER



- Select LP crossover filter for Low-Pass functions.



1.2 AMPLIFIERS' SPECIFICATION

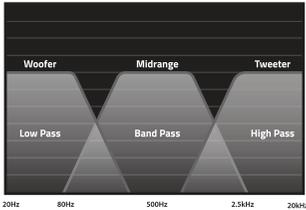
AMPLIFIERS: EXM3000.1, EXM2000.1

| SPECIFICATIONS | EXM3000.1 | EXM2000.1 |
|----------------------------|------------------------------------------|------------------------------------------|
| Rated Power: | 4Ω @ 14.4 Volts & 1% THD: 1 x 750 Watts | 4Ω @ 14.4 Volts & 1% THD: 1 x 500 Watts |
| Rated Power: | 2Ω @ 14.4 Volts & 1% THD: 1 x 1500 Watts | 2Ω @ 14.4 Volts & 1% THD: 1 x 1000 Watts |
| Rated Power: | 2Ω @ 14.4 Volts & 1% THD: 1 x 3000 Watts | 1Ω @ 14.4 Volts & 1% THD: 1 x 2000 Watts |
| Working Voltage | 10 ~16Volts | 10 ~16Volts |
| Frequency Response: | 10Hz - 22KHz | 10Hz - 22KHz |
| Signal to Noise Ratio: | <90dB | <90dB |
| Damping Factor: | 125dB< | 125dB< |
| Low Level Input: | 6V - 0.2V | 6V - 0.2V |
| High Pass Filter Variable: | 20Hz - 8KHz | 20Hz - 8KHz |
| Low Pass Filter Variable: | 50Hz - 8KHz | 50Hz - 8KHz |
| Minimum Working Impedance: | 1Ω | 1Ω |

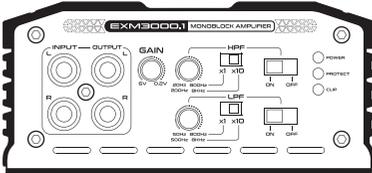
2.2 AMPLIFIER'S CONTROL & CONNECTION.

EXM3000.1

Selectable 12dB 3-Way Active Crossover

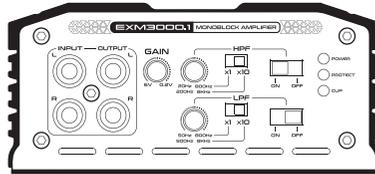


BAND-PASS FILTER



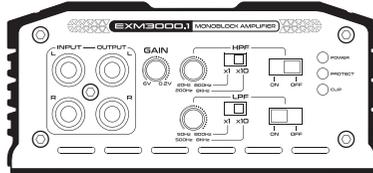
• Select both HP and LP crossover filters for Band Pass functions.

HIGH-PASS FILTER

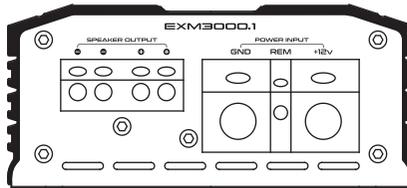


• Select only the HP crossover filter for High-Pass functions.

LOW-PASS FILTER



• Select LP crossover filter for Low-Pass functions.



INPUT

Connect RCA output cables from the head unit to EUPHORIA XPERT amplifiers' RCA Input

GAIN (6V ~ 0.2V)

Connect RCA output cables from the head unit to EUPHORIA XPERT amplifiers' RCA Input

ACT- Adaptive Crossover Technology

All models of EXM amplifiers feature an active crossover system capable of adapting to any system configuration.

Select **HP** for smaller full range speakers or tweeters. This setting will filter out any unwanted lower frequencies according to the set frequency.

Select both **HP** and **LP** for bandpass for running midrange or midbass drivers. This setting will filter out both unwanted low or high frequencies according to the setting of each control.

Select **LP** for subwoofers drivers. This setting filters out any unwanted high frequencies a subwoofer can not produce.

+12V (POWER CONNECTION)

This must be connected to the fuse positive terminal (+12V) of the battery. Recommended wire is 4 gauge or thicker. Check the battery voltage.

GND (GROUND CONNECTION)

It is connected to the negative or ground cables of the vehicle. Recommended wire is 4 gauge or thicker.

REM (REMOTE)

It is connected to switched +12V with a trigger cable coming from the head unit.

APC Audio Protection Circuit

The APC protects the the amplifier against speaker shorting or malfunction. In the event that the APC is activated, resting the amplifier by removing a remote trigger input will allow the amplifier to restart as long as the fault has been removed.

SESI - Signal Evaluation Status Indicator

Power LED-lit shows normal operation.
Protect LED-RED-lit shows general malfunction, faulty connection or thermal protection.
Clip LED - lit indicates over input of RCA signal which could casue the amplifier to be over driven and protect.

3. INSTALLATION

In case you install the amplifier by yourself, please read owner's manual very carefully before your installation. Please take all steps into consideration or, you can have Euphoria authorized dealer to check installation and set your car audio systems.

3-1. MOUNTING PREPARATION

Disconnect the negative (-) battery cable before mounting your amplifier or making any connections. Check the battery and alternator ground (-) connections. Make sure they are properly connected and free of corrosion before selecting a mounting location. Please take some concerns into consideration with cooling efficiency and safety.

3-2. MOUNTING PREPARATION

The EXM amplifiers use a specially designed heat radiation heat sink to avoid excessive heat from circuitry. But for better heat dissipation, it is good to find the mounting location where you can install vertically with the heat sink fins and better air flow around heat sink. For the safety. You have to find a dry and well ventilated location and make sure any cables and drilling car equipment are not interfere with mounting location. Be sure the mounting location and drilling of pilot cables will not present a hazard to any cables, control cables, fuel lines, fuel tanks, hydraulic lines or other vehicle systems or components.

3-3. +12V, GND, REM CONNECTION.

12V (POWER CONNECTION)

Before mounting amplifier, disconnect the negative (-) wire from battery to protect any accidental damage to amplifier and audio system. EXM amplifiers requires at least the use of 4 gauge wiring for all power connections. Connect the power cables to power terminal labeled as +12V. EXM Amplifiers are not Internally fused and require external fusing. In order to install external fuses, connect one end of fuse holder to the power cable and the other end of fuse holder to positive battery within 18in of the same cable gauge. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable. Be sure to use fuses and fuse holders adequate for the current draw application.



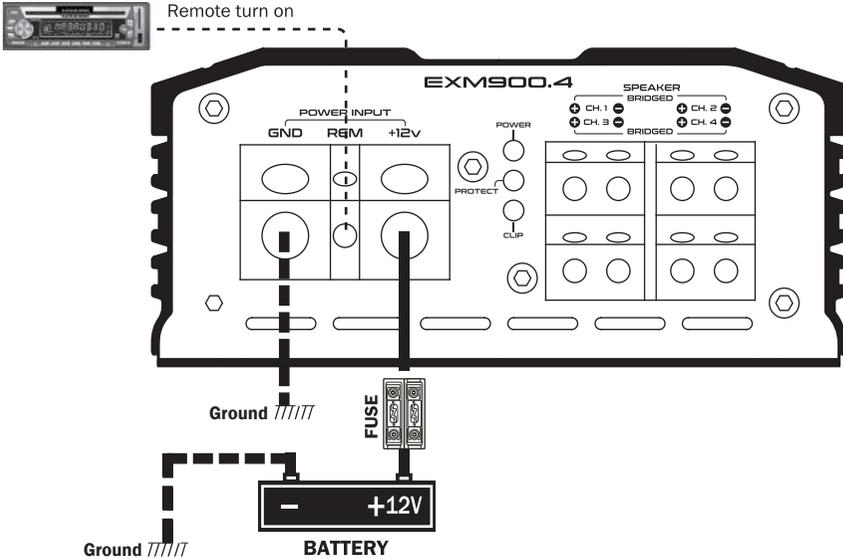
GND (GROUND CONNECTION)

Locate a secure grounding connection as close as possible. Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. Connect one end of a short piece of the same gauge cable as the power cable to the grounding point. Run the one end of the cable to the grounding point. Run the other end of the cable to the mounting location. Connect the ground cable to the screw terminal labeled as GND.

REM (REMOTE CONNECTION)

Run a remote turn on cable from the head unit's remote switched +12V output.

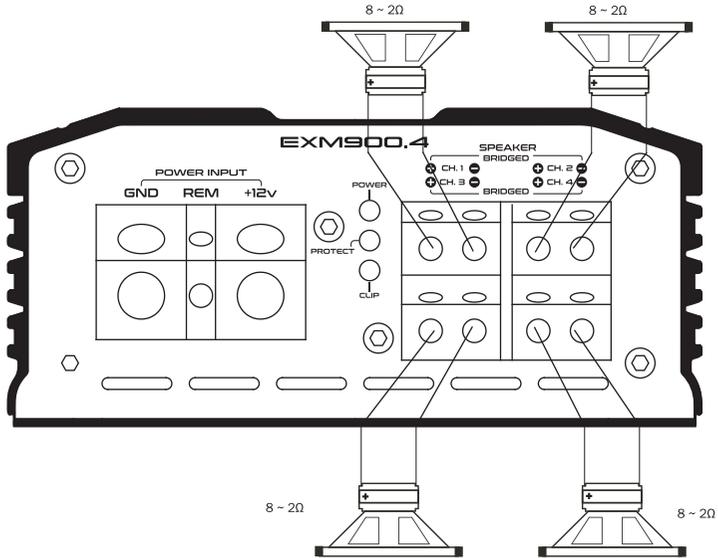
AMPLIFIER +12V, GROUND, REMOTE CONNECTION DIAGRAM



3-4. SPEAKER CONNECTION

Euphoria recommends to use minimum 12 gauge speaker connecting cables. Run 12 gauge speaker connecting cables from your speakers to amplifier's mounting location. Keep speaker cables away from the power cables and amplifier's input cables. Use grommets anywhere the cables have to pass through the holes in the metal frame or sheet metal. Connect to the speakers according to the type of terminals on each speaker. Strip 3/8" of insulation from the end of each cable and twist the cables strands together tightly. Make sure there are no stray strands that might touch other cables or terminals and cause a short circuit.

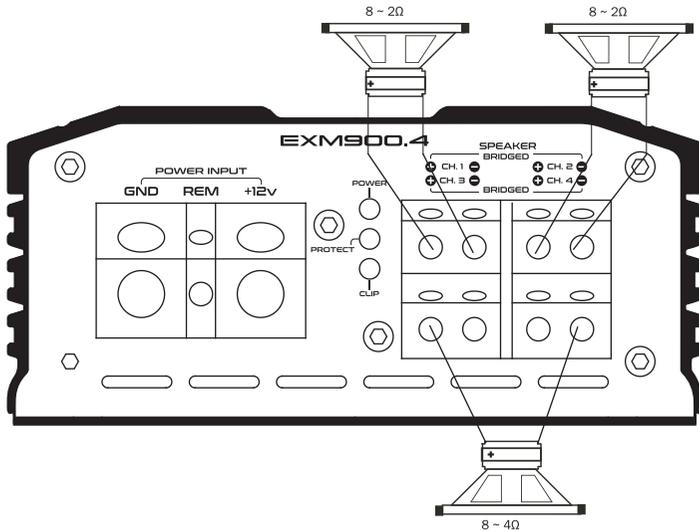
EXM900.4/EXM400.4 AMPLIFIER SPEAKER CONNECTION DIAGRAM 1



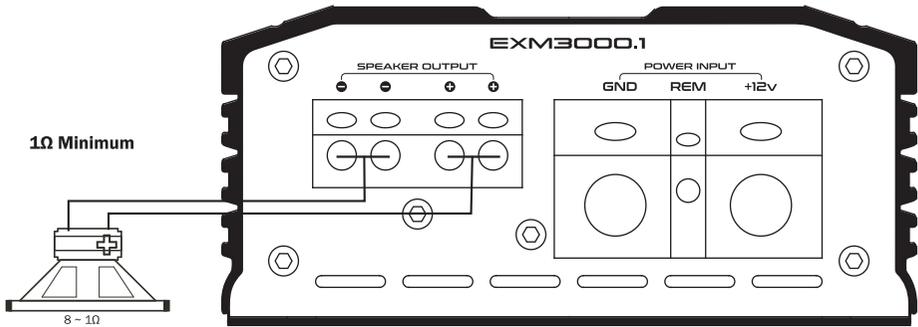
! CAUTION !!

EXM900.4/EXM400.4 working voltage is 10 ~ 16volts
EXM900.4/EXM400.4 minimum working impedance is 2Ω in stereo or 4Ω bridged.

EX900.4/EX400.4 AMPLIFIER SPEAKER CONNECTION DIAGRAM 2



EXM3000.1/EXM2000.1 AMPLIFIER SPEAKER CONNECTION DIAGRAM 1

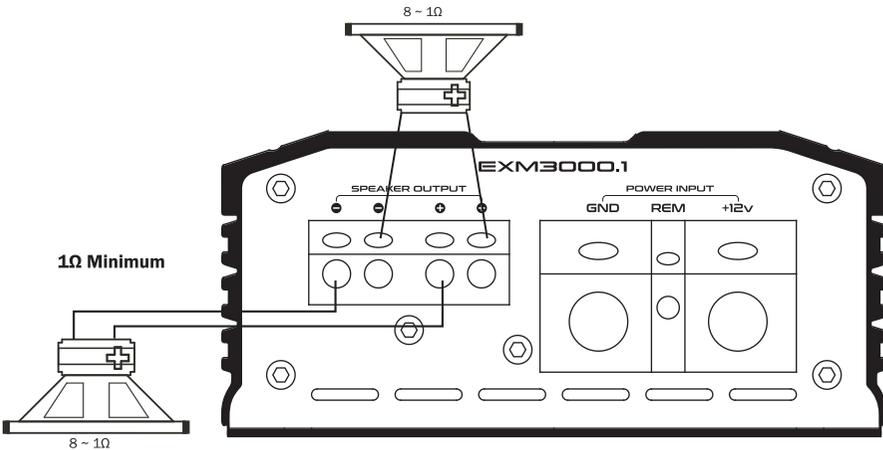


⚠ CAUTION !!

EXM3000.1/EXM2000.1 working voltage is 10 ~ 16volts

EXM3000.1/EXM2000.1 minimum impedance is 1Ω.

EXM3000.1/EXM2000.1 AMPLIFIER SPEAKER CONNECTION DIAGRAM 2



4. TROUBLESHOOTING

NO SOUND (NO OUTPUT)

- 1) Please check all connections, cables' routing, short and voltage at amplifier and head unit.
- 2) Please check built-in or external fuses, If it is blown, please replace with new one.
- 3) Please check whether speakers work well, you can test speakers by connecting to another amplifiers.

PROTECTION

- 1) Please check overload, overheat (thermal) , short, voltage and DC offset.
- 2) Minimum working impedance for EXM400.4/EXM900.4 is 2Ω stereo or 4Ω bridged. EXM400.4/EXM900.4 working voltage is 10 ~ 16V.
- 3) If the amplifier is shut down due to overheat, Reset by turning off the remote input and allowing time to cool down. Please make sure there are no airflow obstructions around amplifier to prevent thermal protection.

WHINING NOISE

- 1) Engine noise is caused by poor grounding of amplifier, head unit, other components, battery or alternator, so please check all grounding connections.



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LIMITED WARRANTY

Euphoria warrants any products purchased in the U.S.A. from an authorized Euphoria dealer. All products are warranted to be free from defects in material and workmanship under normal use and service for a period of two (2) years when the unit is installed by an authorized Euphoria dealer. Non-authorized dealer installed products carry a one (1) year parts and labor limited warranty. This warranty applies to the original purchase only.

Euphoria will either repair or replace (as its option) any unit that had been found to be defective and under warranty provided the defect occurs within:

This limited warranty periods do not extend to units having been subjected to misuse, abuse, neglect, or accident. Products that in Euphoria's judgment shows evidence of having been altered, modified, or serviced without Euphoria's authorization, will be ineligible under this warranty.

To obtain warranty services please contact your retailer or visit our website at www.euphoriacarudio.com for more details.



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