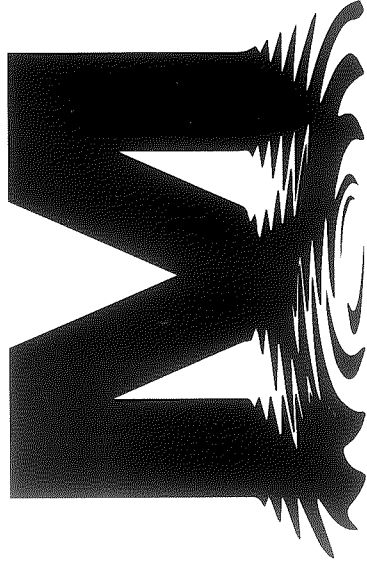


OPERATING MANUAL



MIL-AMP1704

4 CHANNEL CLASS D AMPLIFIER

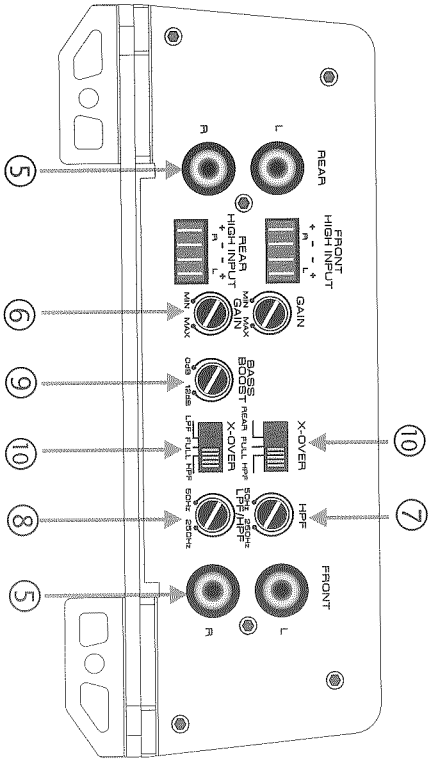
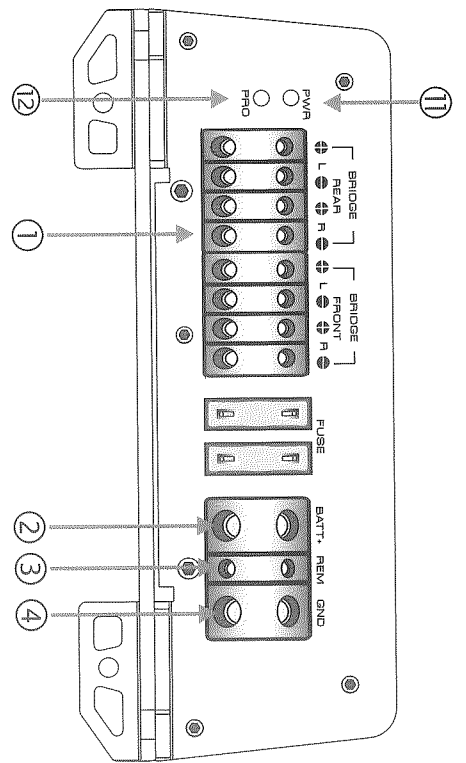
FEATURES

- MINI SIZED OEM PLUG & PLAY UPGRADE DESIGN
- DOUBLE SIDE PCB AND SMD COMPONENTS
- FULL RANGE DIGITAL OR CLASS D DESIGN
- RCA INPUT AND HIGH INPUT
- INPUT SENSITIVITY: 250mV-6V
- LPF/FULL/HPF SELECTION SWITCH
- BASS BOOST :0dB~12dB

SPECIFICATIONS

Model	MIL-AMP1704
Description	4 Channel
1Ohm Load @ 14.4V	NA
20hm Load @ 14.4V	4 x 100W
40hm Load @ 14.4V	4 x 70W
Bridge Mode	2 x 200W
	Features
Input Sensitivity	250mv - 6V Low Level 0.8~15V High Level
Frequency Response	20Hz~20KHz 50Hz - 250Hz
LPF	50Hz - 250Hz
HPF	50Hz - 250Hz
THD at 40hm load	<0.3%
S/N Ratio	>90dB
BassBoost @45Hz	0dB - 12dB
Efficiency @ 40hm	>70%
Minimum Load	20hm
Auto Turn ON/OFF	NA
Fuse Protection	NA
Short Circuit Protection	NA
Thermal protect °C	Protect at 84°C / 185F
Components & PCB	SMD parts / double side pcb
	Dimension(mm)
Height	50
Width	150
Length	230

CONTROL FUNCTIONS



1. SPEAKERS

Connect speakers/subwoofers to these terminals. Be sure to check wire for proper polarity. Never connect the speaker cables to chassis ground.

2. +12 Volt Power

Connect this terminal through a FUSE or CIRCUIT BREAKER to the positive terminal of the vehicle battery or the positive terminal of an isolated audio system battery. Warning: Always protect this power cable by installing a fuse or circuit breaker of the appropriate size within 15 inches (30cm) of the battery terminal connection.

3. Remote Turn On

This terminal turns on the amplifier when (+)12 volt is applied to it. Connect it to the remote turn on lead of the head unit or signal source.

CONTROL FUNCTIONS

4.GND

Connect this cable directly to the frame of the vehicle. Make sure the metal frame has been stripped of all paint down to the bare metal. Use the shortest distance possible. It is always a good idea to replace the factory ground at this time with a larger cable equal to the new amplifier power cable or larger. **CAUTION:** Do not connect this terminal directly to the vehicle battery ground terminal or any other factory ground points.

5. RCA input jacks

These RCA input jacks are for use with source units that have RCA outputs. A source unit with a minimum level of 200mV is required for proper operation. The use of high quality twisted pair cables is recommended to decrease the possibility of radiated noise entering the system.

6. Gain Control

The Gain control will match the amplifiers sensitivity to the source units signal voltage. The Operating range is 6V to 250mV at Low Level and 15V to 800mV at High Level signals.

7. 24dB Low Pass Variable Control

Adjustable low pass crossover frequency should be from 50Hz-250Hz

8. 24dB High Pass Variable Control

Adjustable high pass crossover frequency from 50Hz-250Hz

9. 0-12dB Bass Boost Control

By using the bass boost(0-12dB) variable function deepest bass notes at 45Hz are emphasized.

10. X-OVER

Depending on the selected switch setting the amplifier operates in Fullrange, Highpass or Lowpass mode.

11. Power LED

The Green color LED indicates that the power is on.

12. Protection LED

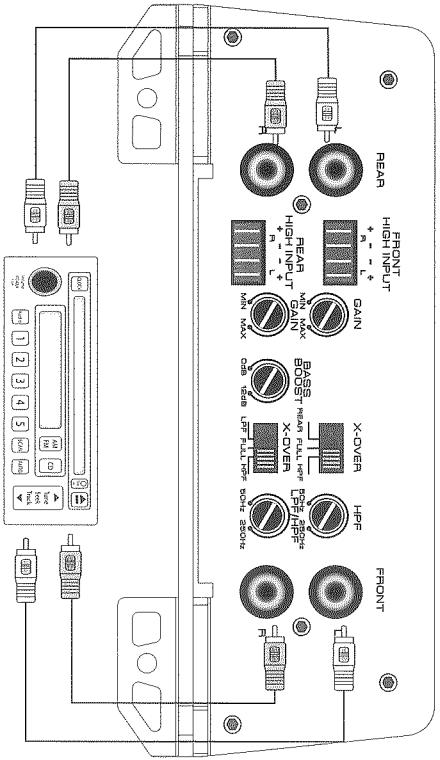
The Red color LED indicates fault condition of amplifier. when a fault condition occurs such as an overload ,excessive heat or short circuit of speaker terminals, the protection circuit is engaged to protect both the subwoofer and amplifier.

LOW LEVEL INPUT WIRING

Low-level (RCA) input wiring is preferred for best audio performance. Always use a high-quality RCA cable for best audio performance.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

4-Channel Amplifier

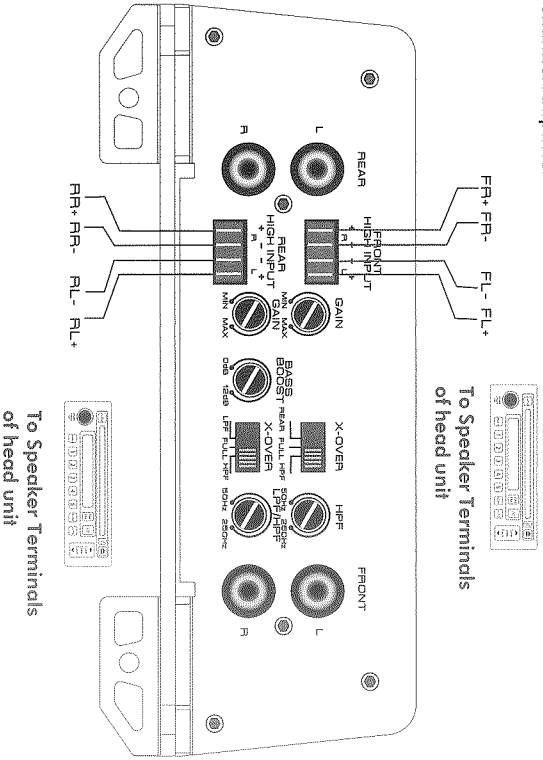


HIGH LEVEL INPUT WIRING

The high level input(s) should only be used when your head unit lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phase problems.

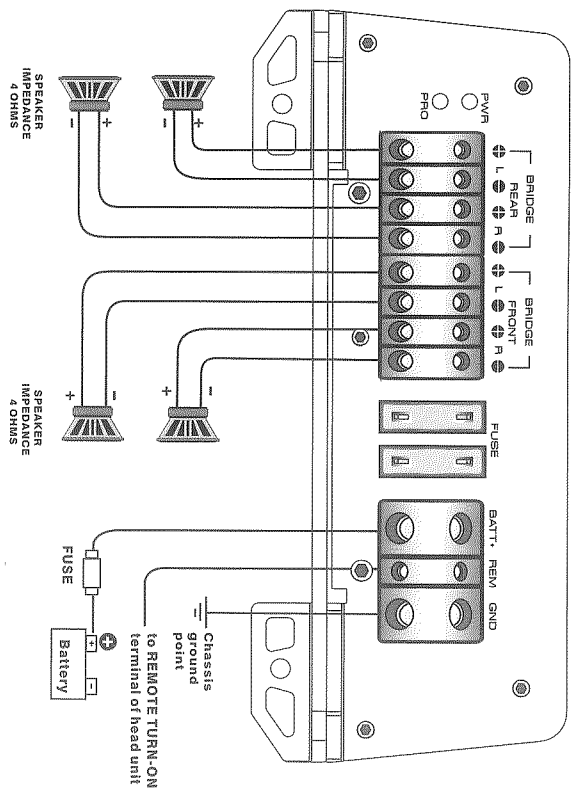
NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!

4-Channel Amplifier

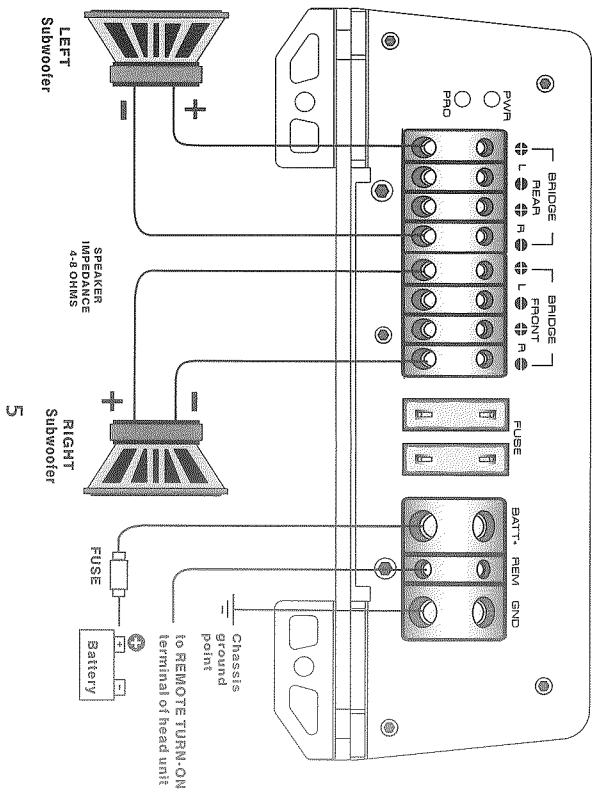


POWER AND SPEAKER WIRING
4-channel Amplifier
MIL-AMP1704

4-Channel Mode



Bridged Mode



INSTALLATION PRECAUTIONS

Before you install the amplifier, investigate your layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring. Before making or breaking power connections in your system, disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals. If you need to replace the power fuse, replace it only with a fuse identical to that suggested by this manual. Using a fuse of a different type or rating may result in damage to your audio system or your amplifier which is not covered by warranty.

CONNECTING THE AMPLIFIER

1. Connect the amplifiers ground cable to a close, bare metal part of the frame or chassis. Use a nut and bolt! The ground cable must be at least the same size as the +12volt
2. Connect the remote terminal to remote output of the head unit using upper 16 gauge wire.
3. Connect the fuse holder within 15"(30cm) of the battery, and run the selected cable from this fuse to the amplifier.
4. Connect all the inputs with high-quality cables. Connect Remote Control if necessary.
5. Insert fuse(s) into the battery fuse holder(s).

TROUBLE SHOOTING

Symptom	Possible Remedy
Amplifier will not power up	Check to make sure you have a good ground connection. Check that there is battery power on the (+)terminal . Check all fuses, replace if necessary . Make sure that the Protection LED is not illuminated.
Protection LED Comes on	Check for short circuits on speaker leads. Check the speaker load not beyond the minimum load. Remove speaker lead, and reset the amplifier. If the protection LED still Comes on, then the amplifier is faulty and needs servicing .
No output	Check that the RCA audio cables are plugged into the proper inputs. Check all speakers wiring. Check the headunit output and the amplifier level setting.
Low output	Reset the level Control. Check the Crossover Control settings.
High hiss in The speakers	Check the RCA cable is not shorted to power ground at amplifier side. Check the amplifier grounding.
Distorted sound	Check that the Input level control is set to match the signal level of the head unit. Always try to set the Input level as low as possible. Check that all crossover frequencies are properly set. Check for short circuits on the speaker leads.
Amplifier gets Very hot	Check that the minimum load impedance for the amplifier model is correct. Check that there is good air circulation around the amplifier. In some applications, it may be necessary to add an external cooling fan .

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