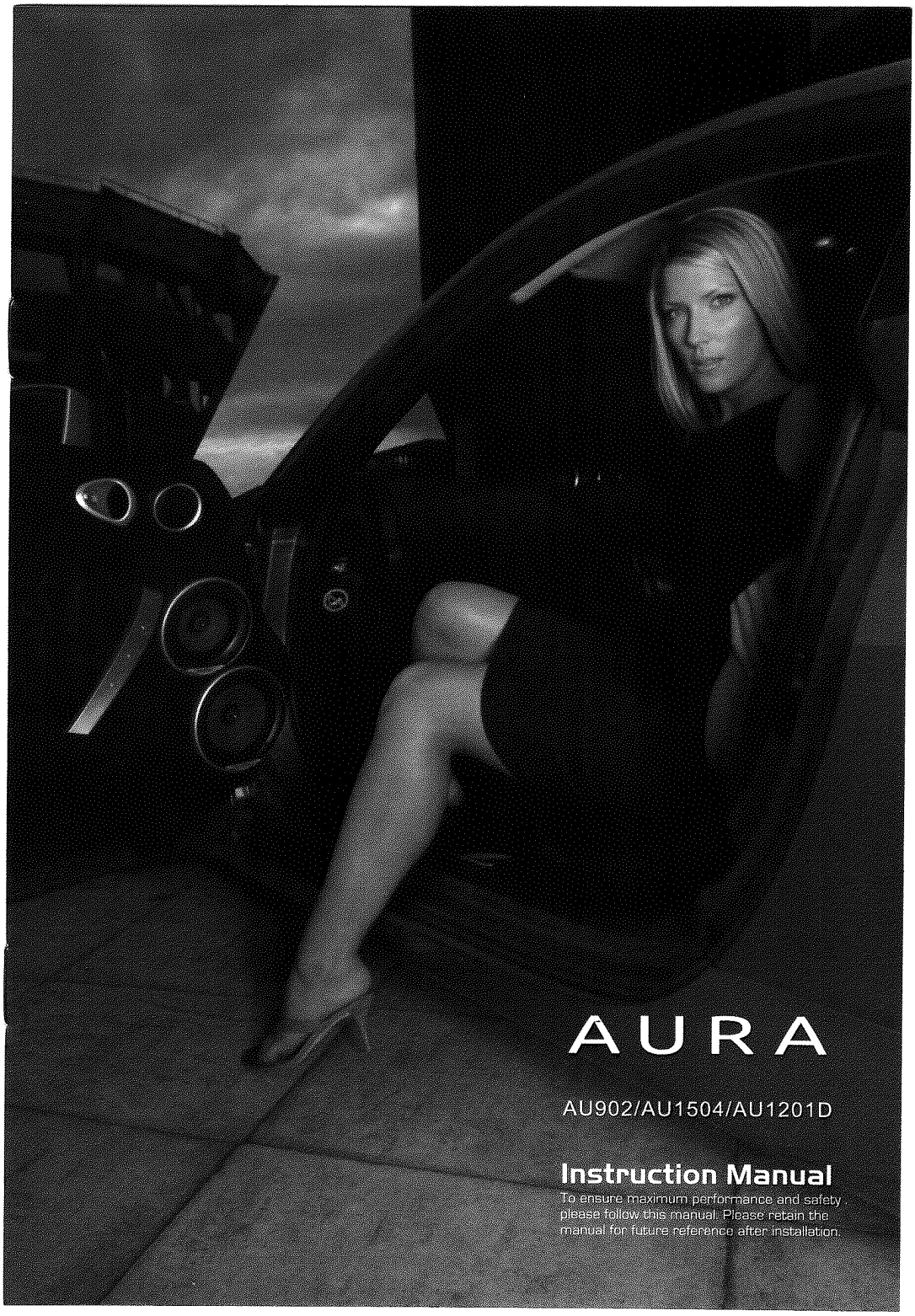

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AU902/AU1504/AU1201D

Instruction Manual

To ensure maximum performance and safety, please follow this manual. Please retain the manual for future reference after installation.

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Before installing the components, please carefully read all of the instructions contained in this manual. It is advisable to carefully follow the highlighted instructions. Failure to respect these instructions may cause unintentional harm or damage to components.

SAFETY CONSIDERATIONS

- Make sure your vehicle has 12VDC voltage negative ground electric system.
- Check your alternator and battery condition to ensure they can handle the increased consumption.
- Do not carry out any installation inside the engine compartment, exposed to water, excessive humidity, dust or dirt.
- Never run cables outside the vehicle or install the amplifier next to electronic gear cases.
- Install the amplifier in the vehicle parts where temperature is between 0°C (32°F) and 55°C (131°F). Let the amplifier outer profile be at least 5cm (2") far from possible walls. There must be good air circulation where the amplifier is installed. If you cover the heat sink, the amplifier goes in protection.
- The amplifier can reach temperatures of around 80°c(176°F). Make sure it is not dangerously hot before touching it.
- Periodically clean the amplifier without using aggressive solvents that might damage it. Don't use compressed air, since it would push solid parts in the amplifier. Dampen a piece of cloth with water and soap, wring it and clean the amplifier. Then use a piece of cloth dampened with water only: eventually clean the amplifier with a dry piece of cloth.
- Make sure the location you chose for the components does not affect the correct functioning of the vehicle mechanical and electrical devices.
- Make sure power cable is not short-circuited during installation and connection with the battery.
- Use extreme caution when cutting or drilling the car , checking there are no electrical wiring or structural element underneath.
- When positioning the power supply cable, avoid running the wire over or through sharp edges or close to moving mechanical devices. Use rubber grommets to protect the wire if it runs in a hole of the chassis of the vehicle or suitable material if it is close to heat generating parts.
- Make sure all the cables are properly secured all along their length. Also, make sure their outer protective jacket is flame resistant and self-extinguishing. Use a clamp screw to secure positive and negative cables just close to the amplifier respective power supply terminal blocks.
- Choose the cable gauge according to the amplifier power and to the suggestions you can find in this manual. Use high quality cables, Connectors and accessories, as you can find in the connection catalogue.
- Pre-plan the wiring configuration of your new amplifier and the best wiring routes to ease installation.
- In order to avoid incidental damage, keep the product in the original packaging until you are ready for the final installation.
- Always wear protective eye wear when using tools, as splints or product residue may become airborne.

TYPICAL INSTALLATION SEQUENCE

If you have any questions please refer to the manual or contact your retailer for support.

- Before installing the amplifier turn off the source and all other electronic devices in the audio system to prevent any damages.
- Ensure the use of the correct size of power and speaker cables ,run the power wire from the battery location to the amplifier mounting location.
- Connect the power supply with the correct polarity. Connect (+) terminal to the cable coming from the battery and (-) terminal to the Car chassis.
- Install a suitable fuse holder, 40cm max from the car battery positive terminal: connect one end of the power cable to it after connecting the other end to the amplifier. Do not insert the fuse into its holder.
- To ground the device (-) in the right way, use a screw in the vehicle chassis: scrape all the paint or grease from the metal if necessary, Checking with a tester that there is continuity between the battery negative terminal (-) and the fixing point.
- Route all signal cables close together and away from power cables.
- Connect the RCA input cables of which the applied signal must be between 0.3 VRMS and 5 VRMS.
- Connect the speaker output using 10 AWG max speaker cable.
- Don't connect (-) L and (-) R speaker outputs together. If you use an external stereo crossover, make sure that its negative poles are not connected together.
- The amplifier turns on by connecting the remote turn on terminal (REMOTE IN) to the source specific output.
- The LED on the front panel lights up green indicating that the product is on. The LED lights up red if the outputs go on overload, if the thermal protection in triggered, if the speaker cables short circuit with the vehicle chassis and if the amplifier is malfunctioning.
- The fuses/s is/are located near the power supply and speaker terminals. To replace, remove the fuse/s from the housing. Always replace the fuse of the same rating.
- When installation is over, check the systems wiring and make sure all connections were done in the correct way.
- Put the fuse into the fuse holder. The fuse value will have to be 30% higher than the amplifier built in fuse. In case the cable supplies several amplifiers, the fuse value will have to be higher than the sum of the values of all other fuses in the amplifiers.
- Listening level calibration is made by adjusting the source volume up to ¾ of it maximum level then adjust the amplifiers levels until you hear distortion.

SAFE SOUND

USE COMMON SENSE AND PRACTICE SAFE SOUND. PLEASE REMEMBER THAT LONG EXPOSURE TO EXCESSIVLEY HIGH SOUND PRESSURE LEVEL MAY DAMAGE YOUR HEARING. SAFETY MUST BE AT THE FOREFRONT WHILE DRIVING.

Information on electrical and electronic equipment waste (for those European countries which organize the separate collection of waste) Products which are marked with a wheeled bin with an X through it cannot be disposed of together with ordinary domestic waste. These electrical and electronic products must be recycled in proper facilities, capable of managing the disposal of these products and components. In order to know where and how to deliver these products to the nearest recycling/disposal site please contact your local municipal office. Recycling and disposing of the waste in a proper way contributes to the protection of the environment and to prevent harmful effects on health.

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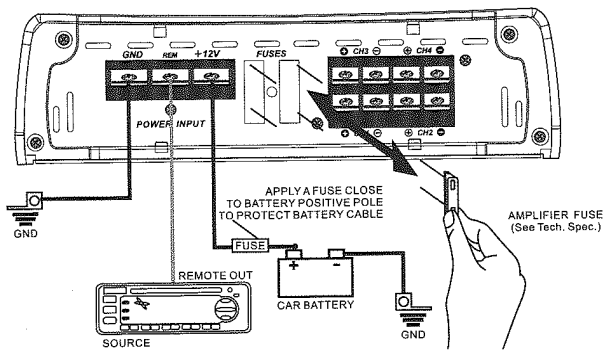
AMPLIFIER INSTALLTION GUIDE

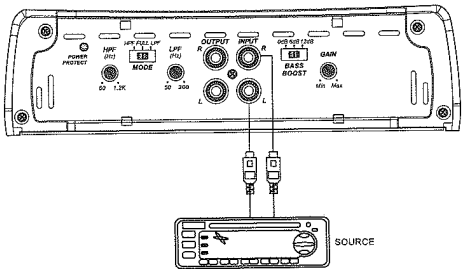
When installation is commenced be ensure that the vehicles battery is fully disconnected. Ensure a fully competent electrician or mechanic undertakes the installation. Ensure the installation manual has been fully read and understood. Failure to do so may result in damage to the vehicle, equipment or to the installer.

POWER SUPPLY and REMOTE IN CONNECTION / FUSE REPLACEMENT

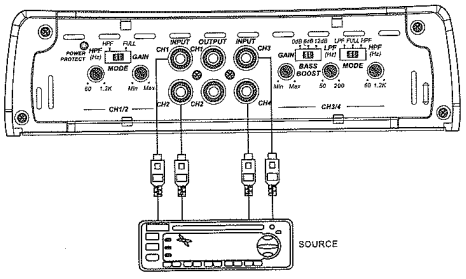


Signal input options, when connecting to factory fitting stereo systems without RCA signal output ensure the polarity of the high-level input is wired correctly. If Unsure, seek advice form the vehicle manufacturer to ascertain the correct polarity.

2 CHANNEL/MONO SIGNAL INPUT



4 CHANNEL SIGNAL INPUT



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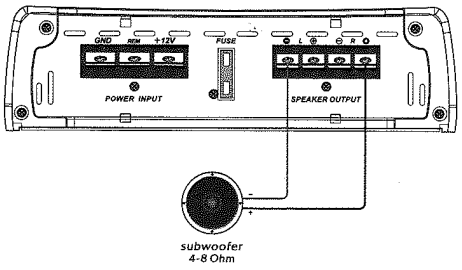
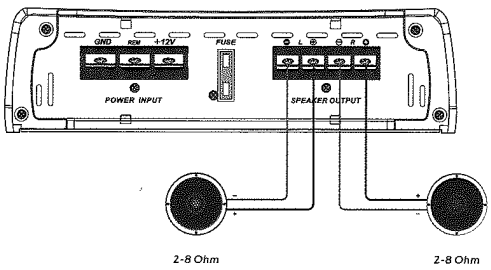
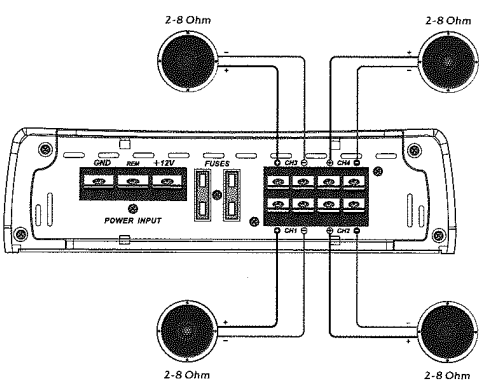
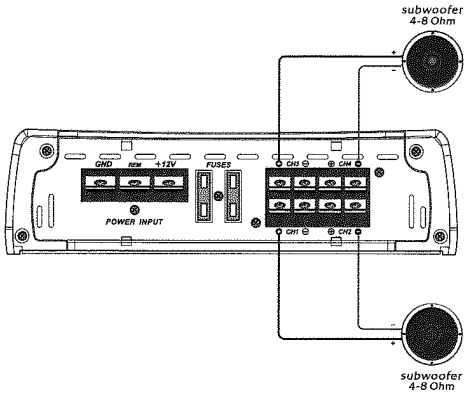
AU902 OUTPUT CONFIGURATIONS.

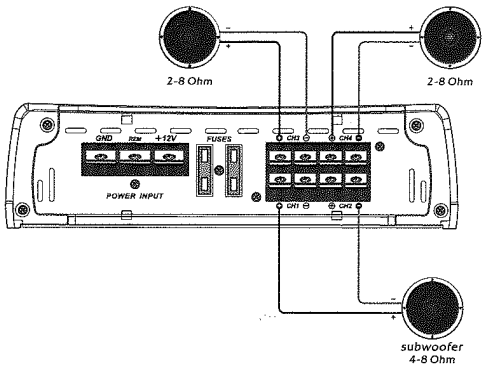




AU1504 OUTPUT CONFIGURATIONS.







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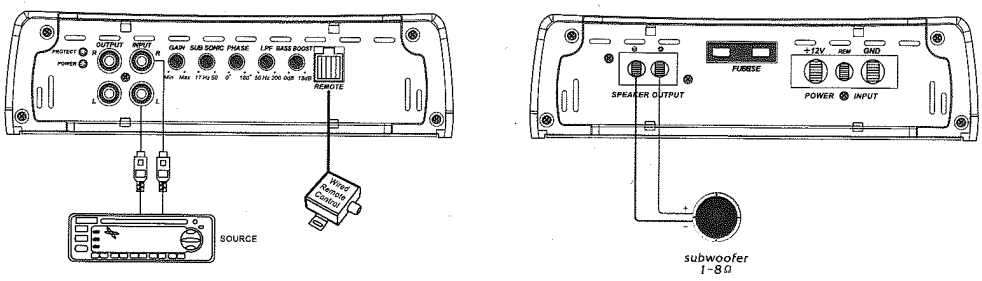
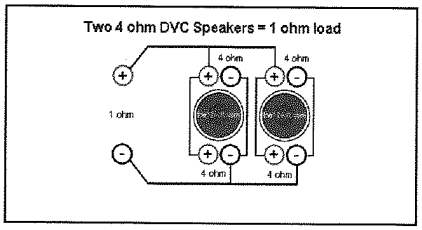
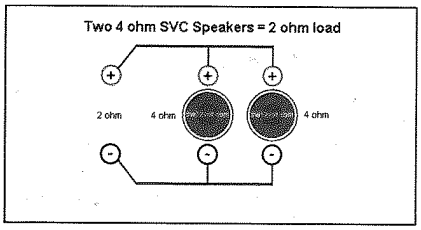
AU1201D OUTPUT CONFIGURATIONS.



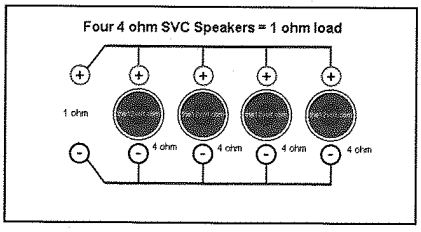
Option 1 (paralle /parallel)=1 ohm load
Voice coils wired in Parallel. speakers wired in parallel
Recommended Amplifier: Stable at 1 ohm mono



Option 1 (parallel)=2 ohm load
speakers wired in parallel
Recommended Amplifier: Stable at 2 or 1 ohm mono



Option 1 (parallel)=1 ohm load
speakers wired in parallel
Recommended Amplifier: Stable at 1 ohm mono



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TECHNICAL SPECIFICATIONS

MODEL	AU1201D	AU902	AU1504
TYPE	CLASS D	CLASS AB	CLASS AB
RMS 4ohm	1 X 225W	2 X 60W	4 X 60W
RMS 2ohm	1 X 380W	1 X 85W	4 X 85W
RMS BRIDGED	NA	1 X 170W	2 X 170W
RMS 1ohm	1 X 480W	NA	NA
MAX POWER	1200W	900W	1500W
FREQ REPONSE	20HZ-200Hz	20HZ-30KHz	20HZ-30KHz
INPUT SENSITIVITY	0 . 2V-6V	0 . 2V-6V	0 . 2V-6V
HIGH PASS	NA	60Hz-1.2kHz	60Hz-1.2kHz
LOW PASS	50HZ-200H	50HZ-200H	50HZ-200H
SUBSONIC FILTER	15HZ-35Hz	NA	NA
RCA OUT	YES	YES	YES
BASS BOOST	0-18dB	0-12dB	0-12dB
BASS REMOTE	YES	NO	NO
ADJUSTABLE PHASING	YES	NO	NO
SWITCHABLE HPF / LPF	NO	YES	YES
DIMENSIONS LXHXD	200x51x194MM	240x51x194MM	320x51x194MM

NOTES

TROUBLE SHOOTING GUIDE.

This section provides you with a catalog of amplifier symptoms and their probable causes and solutions. Before you consult this listing, make sure the vehicle's electrical system is working properly by verifying that other electrical items (e. g. headlights, windows, etc.) Still function correctly.

SYMPTOM	PROBABLE CAUSE	SOLUTION
No Audio	Low or N.C Remote Turn-on connections Blown Fuse Power wires not connected Blown or non speakers connected	Check remote turn-on voltage at amp and head unit Replace with new fast-blow fuse Check butt splices or solder joints Check ground and battery connections Use VOM or DVM to measure speaker coil impedance; check speaker wiring connections
Distorted Audio	Input Sensitivity not set properly or damaged speaker cones Low turn-on voltage	See adjustment procedure and check each step; Inspect each speaker for damage and repair or replace suspected component Refer to head unit owner's manual
Audio Level Low	Mute circuit on head unit is on.	Check electrical system for low voltage; Check ground connection
Unbalanced Audio	Speakers wired with wrong polarity, causing cancellation of bass frequencies	Check polarity of wires from amplifiers to each speaker as defined by the system design Check battery voltage at amplifier during operation
External Fuse Blowing	Incorrect wiring or short circuit	Refer to electrical installation and check each installation step
Whining noise on audio with engine running	Amplifier is picking up alternator noise	Install an in-line noise filter on the head unit's power wire; Check alternator routing diodes or voltage regulator for proper operation. Check all grounds , battery voltage, and RCA cables
Ticking noise on audio with engine running	Amplifier is picking up radiated spark noise	Check RCA audio cable; Install an in-line noise filter on the head unit's power wire. Check spark plug wires.