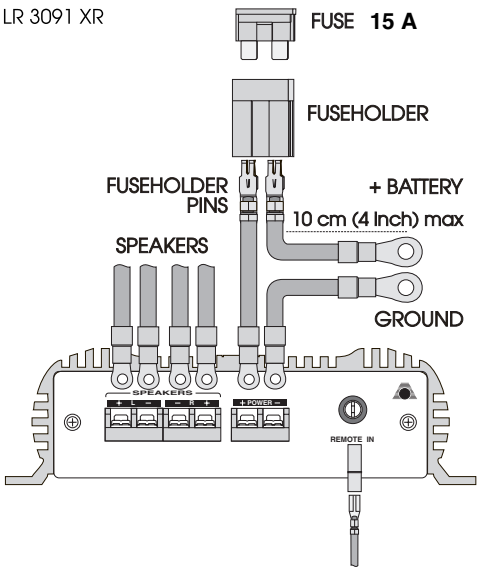
LR 3091 XR

ENGLISH

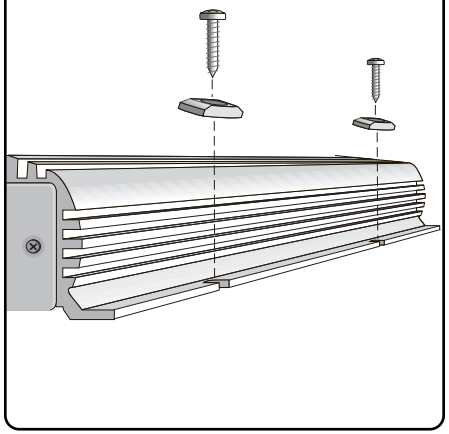
TECHNICAL DATA

POWER SUPPLY	11 ÷ 15 VDC
IDLING CURRENT	0.9 A
MAX CONSUMPTION (Nominal Pwr)	12 A
NOMINAL POWER CONT. (Tol. +10%; -5%)	
1 ch x 4 Ohms; 0.3 % THD; 12 VDC	90 W (RMS)
POWER CONT. (1 ch x 4 Ohms; 13.8 VDC)	95 W (RMS)
POWER CONT. (1 ch x 2 Ohms; 13.8 VDC)	150 W (RMS)
DISTORTION THD (1 KHz; 90% Nominal Pwr)	0.07 %
DAMPING FACTOR	120
RISE TIME	4.5 µS
SIGNAL / NOISE RATIO	98 dBA
INPUT SENSITIVITY	0.15 V ÷ 1.5 VRMS
INPUT IMPEDANCE	15 KOhms
LOAD IMPEDANCE	2; 4; 8 Ohms
CROSSOVER FREQUENCIES	50; 60; 80; 100; 120 Hz
FILTERS SLOPE	12 dB/Otc. Butterworth
LO-BOOST FREQUENCY	45 Hz
LO-BOOST GAIN	0 / +6 dB
HI-PASS UNIT GAIN	0 dB
REMOTE IN	3 ÷ 16 VDC
SIZE (WxHxD)	175 x 50 x 250 mm (6.89 x 1.97 x 9,84 inch)

SERVICE CONNECTIONS



UNIT FIXING

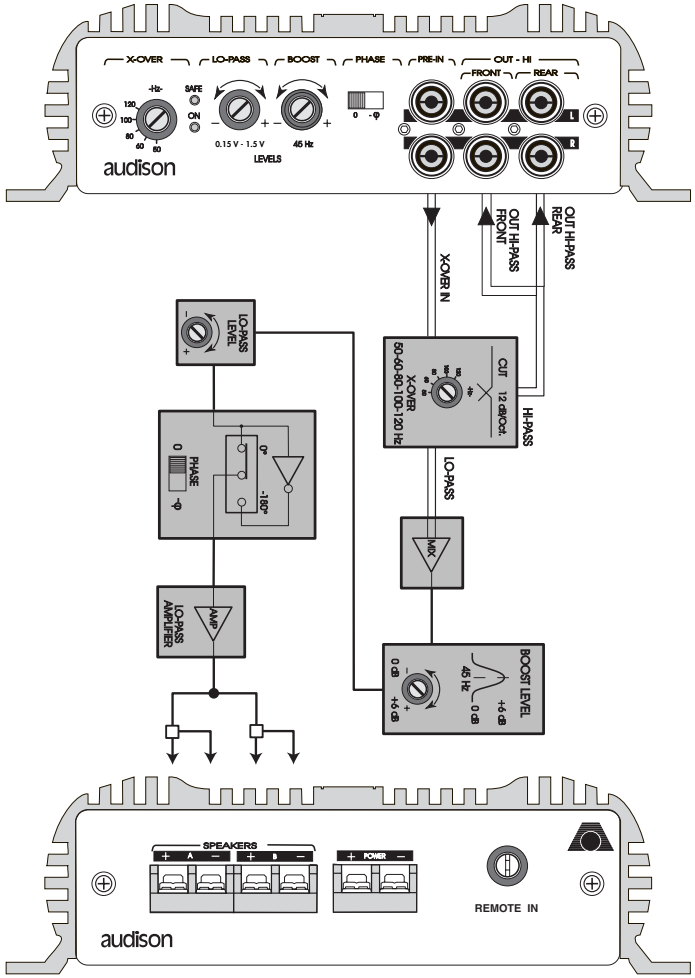


audison

OWNER'S MANUAL

Car power amplifier

LR 3091 XR



Cod. 10123830

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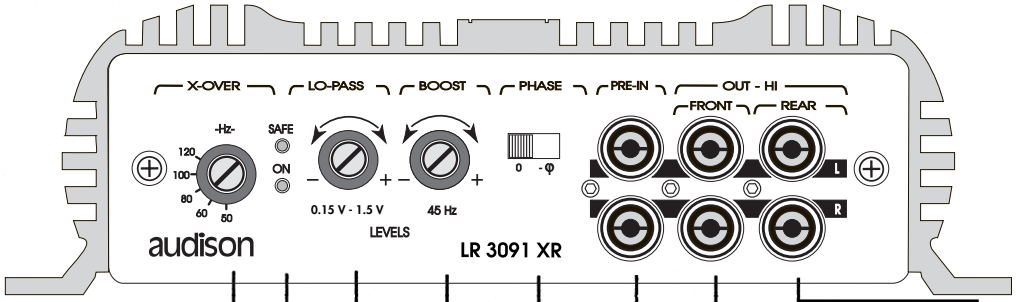
CONTROLS AND FUNCTIONS



FREQUENCY SELECTION

X-OVER
Crossover section.
Pass adjustment for selecting slope is 12 dB/Oct. (crossover at -3 dB).
Frequencies to choose from: 50-60-80-100-120 Hz.
HI-PASS frequencies can be drawn in stereo from OUT-HI outputs, while LO-PASS frequencies are mixed in mono and are available, amplified, at SPEAKERS output connectors.

INDICATORS LIGHTS

ON
Lit when amplifier is ON.

SAFE
When lit indicates intervention of protection circuits in case of overheating (temperature exceeding 80°C /176° F) or output trouble (presence of continuous current, short circuit, or dangerously low-impedance load). When protection circuits intervene the amplifier shuts down. Turn power off. When problem is corrected turn amplifier back on.

SENSITIVITY CONTROLS

LO-PASS
Level adjustement for amplifier's LO-PASS output. Sensitivity variers from 150mV to 1.5V

BOOST
LO-PASS section's band pass filter level adjustment.
Allows highlighting of a narrow frequency band centered at 45 Hz.
Adjustment span is from 0 to +6 dB.
Useful when dealing with not so efficient SUB-WOOFER systems.

PHASE SELECTION

PHASE
Switch for selection of LO-PASS configuration. Allow inversion of signal phase available at SPEAKERS output clamps.
Position 0:
LO-PASS and HI-PASS phase (OUT-HI outputs) are aligned.
Position -φ:
LO-PASS phase is inverted (-180°) in relation to HI-PASS phase. Useful in situations where, acoustically, linearity is lacking in the crossover zone of HI-PASS/LO-PASS frequencies.

GENERAL INPUT

PRE IN
Amplifier's left right inputs. Connections are made to preamplified output from source such as; radio-cassette player, CD player, electronic crossover, or any other device.
For treating preamplified musical signal.

HI-PASS OUTPUT

OUT HI FRONT REAR
Preamplified HI-PASS outputs.
Cut-off frequency is determined by X-OVER selection of values 50-60-80-100-120Hz.
Destined for a stereo amplifier to reproduce high pass FRONT and REAR frequencies if provided.

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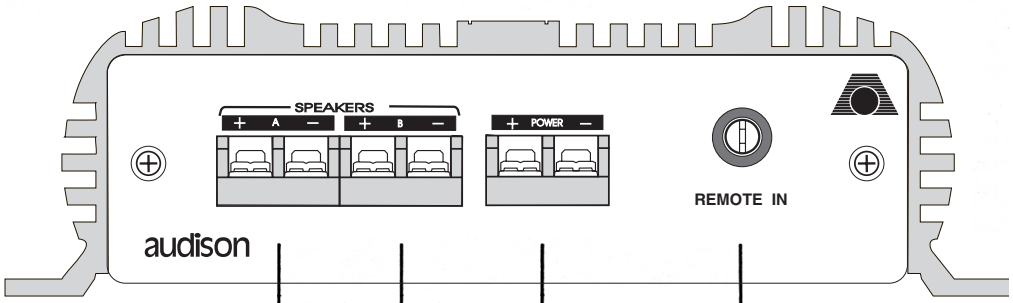
CONFIGURATION OF CONNECTING CLAMPS



OUTPUT POWER CLAMPS

CH A / CH B
LO-PASS power outputs (Ch A and Ch B).
Clamps are connected in parallel to allow connection of two or more acoustic reproduction units. For example, a pair of SUB-WOOFERS.
The power signal available is mono and is subject to the action of internal BOOST filter and intervention of LO-PASS filter.
LO-PASS cut-off frequency can be selected by X-OVER selection on front panel of amplifier.

POWER SUPPLY CLAMPS

POWER
Input clamps for amplifier's power supply.
Connect to battery according to polarity indicated.
Voltage applied must be between 11 and 15 VDC.

REMOTE

IN
Turn on control for amplifier coming from radio/cassette player (or any source provided with remote output for amplifiers).
Voltage applied must be between 3 and 16 VDC.