



Owner's Manual

XS-6K

XS-8K

XS-8X

XS-16K

FEATURES

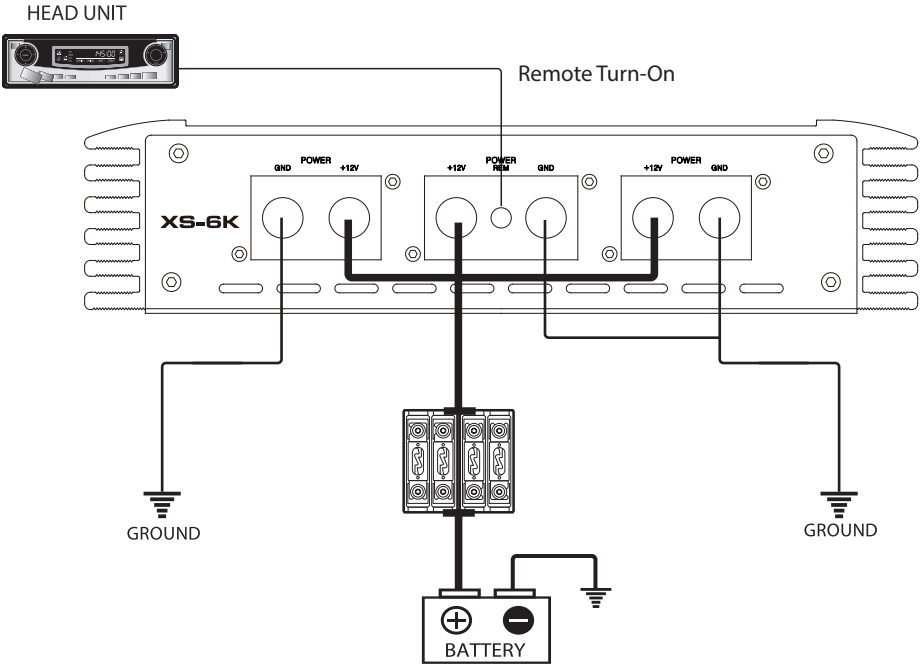
- Digital Class-D Strappable Mono Block Amplifier
- Dual MOS-FET PWM Power Supply
- Stable Into 1 Ohm Mono Load
- 24 dB/Oct, Variable Low Pass Filter
- 24 dB/Oct, Variable Subsonic Filter
- 9 dB/Oct, Variable Bass Boost
- 180 Degree Variable Phase Shift
- 4 Way Protection Circuit
(Thermal, Voltage, Speaker Short and DC)
- Subwoofer Level Controller Included
- XS-6K & XS-8K Voltage Range : 8.5V - 16V
- XS-8X Voltage Range : 8.5V - 18V
- XS-16K Not Strappable.
- XS-16K No Bass Boost Function
- XS-16K Voltage Range : 8.5V - 16V

SPECIFICATIONS

Rated Power Output	XS-6K (@14.4V)	XS-8K (@14.4V)	XS-8X (@18V)	XS-16K (@14.4V)
- RMS Power, 2 Ohm Strapped	12,000W x 1CH	16,000W x 1CH	20,000W x 1CH	NA
- RMS Power, 1 Ohm Mono	6,000W x 1CH	8,000W x 1CH	10,000W x 1CH	16,000W x 1CH
- RMS Power, 2 Ohm Mono	3,500W x 1CH	4,800W x 1CH	6,500W x 1CH	10,000W x 1CH
- RMS Power, 4 Ohm Mono	1,800W x 1CH	2,600W x 1CH	3,800W x 1CH	5,600W x 1CH
Low Pass Frequency Crossover		35Hz - 250Hz		35Hz - 250Hz
Subsonic Filter		10Hz - 50Hz		10Hz - 50Hz
Bass Boost @ 45Hz		0 - 9dB		NA
Phase Shift Control		0 - 180 Degree		0 - 180 Degree
Frequency Response (+/- 1dB)		15Hz - 270Hz		15Hz - 270Hz
Input Sensitivity (+/- 5%)		0.2V - 6V		0.2V - 6V
Signal/Noise Ratio		90dB		90dB
T.H.D @ 4 Ohm		< 0.1%		< 0.1%
Efficiency @ 4 Ohm		88%		90%
Recommended Fuse Rating	500A	800A	800A	1200A
Operating Voltage	8.5V - 16V	8.5V - 16V	8.5V - 18V	8.5V - 16V
Dimensions (L Inches)	28.35"	36.25"	36.25"	39.35"
11.35" (W) x 2.60" (H)				

All features are subject to change in the continuing effort to improve the products without notice.

POWER CONNECTIONS



! Caution

XS-6K, XS-8K, XS-8X & XS-16K are not supplied with a fuse. Make sure you install a in-line fuse holder from the positive (+) terminal of battery.
XS-6K : 500A, XS-8K & XS-8X : 800A, XS-16K : 1200A

+12V POWER

Connect the + 12V terminal of the amplifier to the positive (+) terminal of the battery using the same diameter cable as the ground cable, making sure you install a in-line fuse holder, approximately 300 or 400 mm from the positive (+) terminal of the battery.

GROUND

Disconnect the battery and connect the GND (Ground) terminal to the car's chassis.

Keep this cable as short as possible (not longer than 20 inches or less)

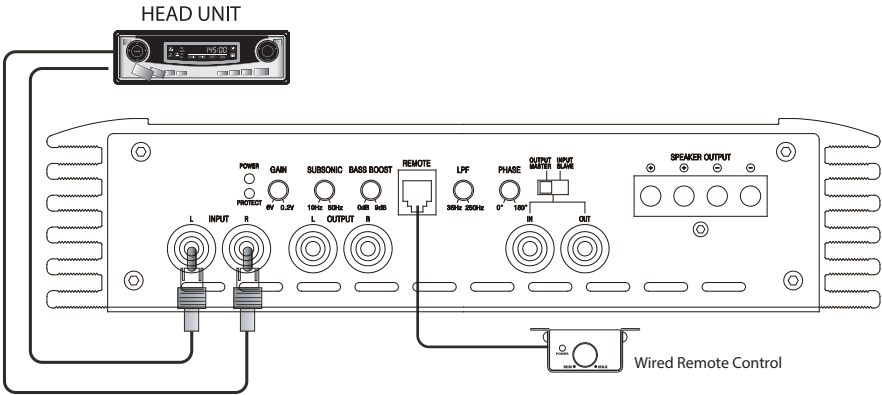
Making sure that the connection with the chassis is rust free and clear of paint or grime.

REMOTE

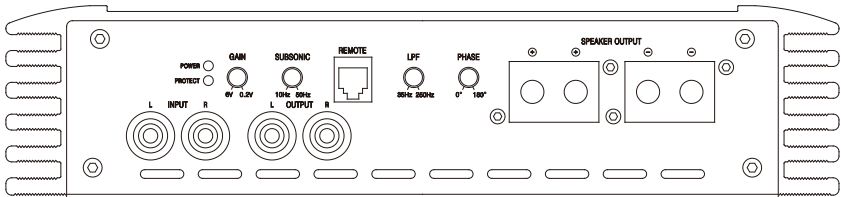
Connect the REM terminal of the amplifier to the power antenna terminal in the car ignition switch using 12 or 14 ga electrical wire.

RCA & SPEAKER CONNECTION

XS-6K, XS-8K, XS-8X INPUT & CONNECTION

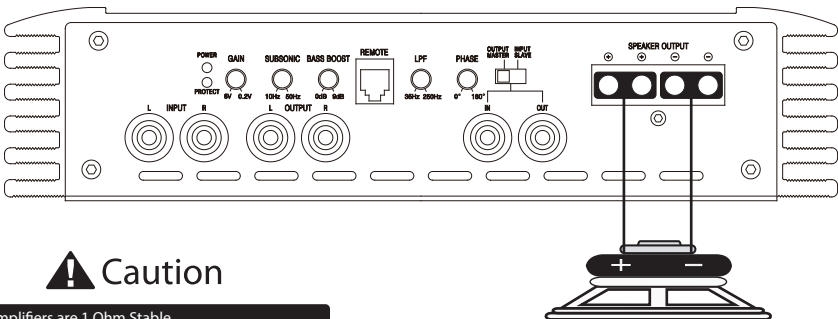


XS-16K INPUT



Caution
XS-16K Not Strappable

SPEAKER CONNECTION



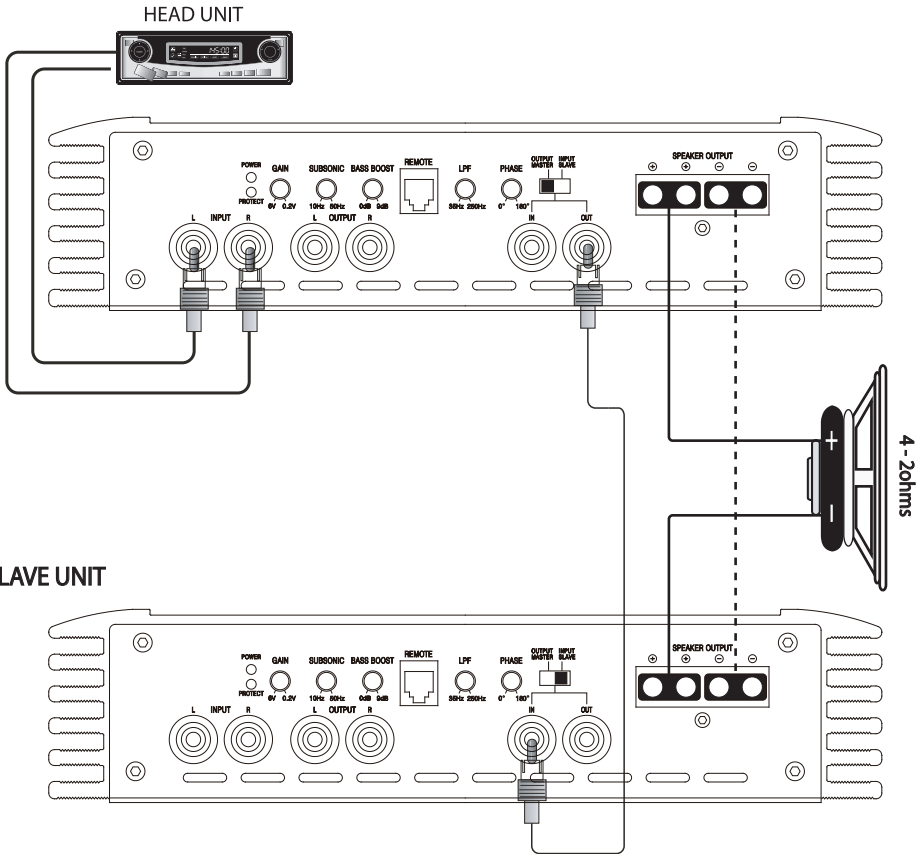
Caution

All XS Amplifiers are 1 Ohm Stable.
Impedance lower than 1 Ohm can damage the Amplifiers

DUAL AMP INPUT & SPEAKER CONNECTION (STRAPPED)

MASTER & SLAVE RCA CONNECTION

MASTER UNIT



SLAVE UNIT

In a strapped mode configuration, the master amplifier has total control over the slave amplifier. When using a strapped mode to operate subwoofer, the positive terminal of the subwoofer's voice coil must be connected to the positive terminal of the master amplifier and the negative terminal of the subwoofer's voice coil must be connected to positive terminal of the slave amplifier. When wiring two amplifiers to a single subwoofer, please make sure power handling capabilities will not be exceeded.

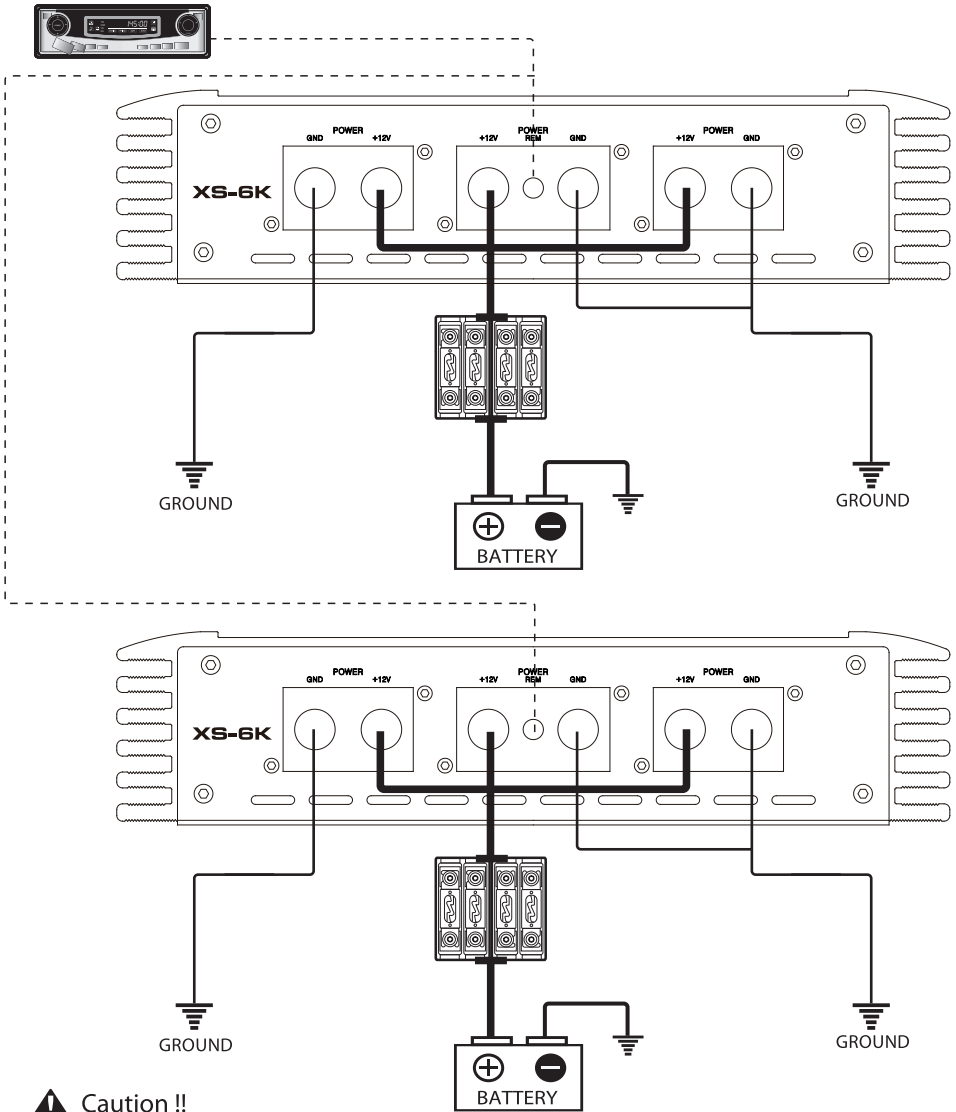
⚠ Caution !!

In a strapped mode,
XS-6K, XS-8K & XS-8X minimum working impedance is 2 Ohms.
Any impedance lower than 2 Ohms can damage the amplifiers.

DUAL AMP POWER CONNECTION (STRAPPED)

POWER CONNECTION

HEAD UNIT



⚠ Caution !!

In a strapped mode,

XS-6K & XS-8K Operating Voltage: 8.5V to 16V at 1 Ohm.

XS-8X Operating Voltage: 8.5V to 18V at 1 Ohm.

TROUBLE SHOOTING

All XS Amplifiers utilize protection features to prevent any damages from misuse or faulty conditions.

If any XS Amplifier senses excessive heat, short circuited speaker, DC or voltage, the protection indicator will light and the system will be turned off. In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or a short.

If any XS Amplifier shuts down due to excessive heat, they will remain in thermal protection until amplifier reaches normal operating temperature.

Before removing your amplifier, refer to the list below and follow the suggested procedures.

NO OUTPUT

@ Check remote turn-on voltage at amplifier and headunit when remote turn-on voltage is low or no turn-on voltage, there is no sound.

@ Check fuses at the battery side or external fuses and all wire connections.

@ Check RCA input is properly connected.

AMPLIFIER SHUT DOWN (PROTECTION)

@ Please check POWER, GND and REMOTE wire connections and all other wires are properly connected.

@ When DC over 4V come into the amplifier, amplifier is DC protected. Pls check whether amplifier works after removing RCA-Input. If amplifier works, then check DC by checking RCA-input.

When DC is over 4V at input, try replacing the head-unit or source.

@ Amplifier goes into thermal protection when amplifier is over-heated. Amplifier will turn back on after it cools down. Please install amplifier in a better ventilated area.

@ All XS Amplifiers have a minimum working impedance of 1 ohm as a single unit and 2 ohm for strapped applications.

XS-16K has a minimum working impedance of 1ohm as a single unit and not strappable.

@ All XS Amplifiers voltage protection at low and high is 8.5V to 16V. XS-8X is 8.5V to 18V.

@ Make sure chassis and remote use same Ground.

DISTORTION & NOISE

@ Please re-adjust amplifier input level which is printed on endplate.

@ Make sure good ground contact of amplifier or headunit.

@ Use sufficiently shielded RCA interconnects and good RCA routing.

@ Check all ground connections of all other audio equipment.

POOR BASS RESPONSE

@ Check speaker wiring and reverse polarity.



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