GLOGGARY

The following terms are used in this manual. Since they may be unfamiliar, definitions are provided as follows.

Bridging: Combining two amplifier channels into one channel. Typically used to create a mono output.

¥ 05

2 ohms 14.4 Volts, stereo (per ch.)

50 W

Gain: The ratio of output voltage to input voltage. The gain control allows adjustment to the amplifier's output level for varying input levels.

L E D: Light emitting diode. Usually indicates power on/off or signal overload.

Remote turn on: Low current automatic switching circuit that turns the amplifier on and off. Typically connected to the remote antenna output or Amp turn-on lead of most car radios, cassette players or CD players.



OPECATION.

100 W	APA 430 • iX Amplifi Continuous I	
4 ohms 14.4 Volts, bridged	ers with Integrated Cros Power Output (Watts p chass 14 .4 Volts, stereo	
100 W	APA 630 • iX sovers er channel)	

0 Hz - 50 kHz Power Bandwidth 10 Hz - 50 kHz	>	Fuse	35
) Hz - 50 kHz	Power Bandwidth	10 Hz - 50 kHz

0.01 - 2.0V	> 72 dB	>300	>90 dB	0.08%	
Input Sensitivity	Stereo Separation	Damping Factor	Signal to Noise Ratio	Total Harmonic Distortion	
0.01 - 2.0V	> 72 dB	>300	>90 dB	0.08%	

4-8 Ohms Output Impedance (Bridged)	,
	ance (Bridged) 4-8 Ohm

87"~7"~101"	4 Channel 2 Front, 2 Rear	2H 06
Dimensions	Crossover Operation 2 Front, 2	Crossover Frequency (12 dB per octave)
2 J" - J" - 14)peration 6 Chann 2 Front, 2 Rear, 2 Nonfade	H 06

INTRODUCTION INSTALLATION

The Sedona APA 430*X and APA 630*X are part of a comprehensive line of amplifiers designed to provide flavless sonic performance. The internal crossover and the multi-channel design provide a variety of system configurations. This enables the amplifiers to meet most any need in the following pages, the step-by-step instructions should lead to a clean, solid insallation. Read each section carefully and if a problem or question arises, call your local dealer or Precision Power Inc. at a power of the section of the section carefully and if a problem or question arises, call your local dealer or Precision Power Inc. at

LOCATION

amplifier must be screwed down with #6 screws to prevent it from moving around. This location must be flat to prevent the amplifier from flexing or warping is important to place the amplifier in a location that provides sufficient airflow, such as the trunk. If placing the amplifier under a seat, care must be taken to ensure amplifier. Once a location has been selected, the that the amplifier be placed in an area that will protect it against physical damage. If the amplifier is placed in the trunk, it should be located where it is not subjected to amplifier be placed in an enclosed area. If the heat is not allowed to escape, the amplifier will over-heat and go operation. The design of the heat sink permits the amplifier to draw the heat away from the internal get warm. Adequate ventilation is vital to allow the area that will allow adequate ventilation? The nature of there are a few points to consider. Is the amplifier in an which could result in damage. move back and forth without coming in contact with the or intrusion. If placed under the seat, be sure that it is that at least two inches of clearance is provided around the amplifier. In no case is it recommended that the components. This heat is then dissipated into the air. It out of the way of rear passenger's feet, and the seat can amplifier to dissipate the heat that develops during damage or inadequate cooling due to object obstruction into thermal protection. Another point to consider is an amplifier dictates that during operation the amp will In selecting a location to mount the amplifiers,

School Mobile Audio 7: ELEMENTS OF POWER 430:ix 630:ix

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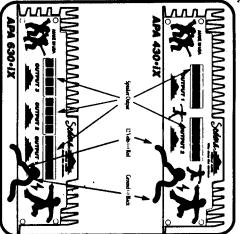
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Before beginning any electrical connections the negative (+) terminal of the battery must be disconnected. This will prevent accidents that could cause damage to the amplifier, fire, and

to operate from a car's positive 12 voit, negative ground electrical systems. The amplifier is shipped with a red 10 gage power wine that has two in-line fuses. One fuse, connected to the battery, is to protect the power wire in the case it is shorted to chassis ground. If this fuse is deleted and the power wire shorts to ground, a fine will result. The second fuse is located on the end that connects to the amplifier. This fuse is to protect the amplifier from various current overload situations. Deleting or replacing either fuse with a larger value will result in severe personal injuries.
The Sedona series amplifiers are designed

damage.

dam



M O T E T C R Z o z

turn-on wire (blue wire in the speaker harness) must be connected to a switched 12 volt source. Typically, the power antenna remote turn-on lead from the source unit to the connected to the source unit to the connected turn-on lead from the source unit to the connected turn-on lead from the source unit to the connected turn-on lead from the source unit to the connected turn-on lead from the source unit to the connected turn-on lead from the source unit to the connected turn-on lead from the source unit turn-on must be used. If 2 or more units are being activated by the antenna remote turn-on, it is advisable to let the is used. If this is unavailable, a switched 12 volt source radio turn on a relay and the relay draw power from an ignition 12 volt source, to turn on the amplifier(s) and In order for the amplifier(s) to turn on, the remote

than 4 ohms into mono.

tereo channels and no lower

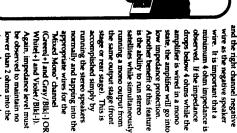
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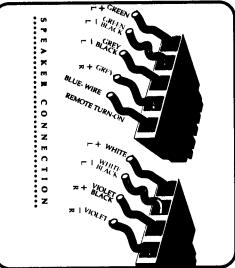
SPEAKER CONNECTION

All speaker connections are via a plug-in wire harness (supplied). The harness connection is located on the right side panel of the Sedona amplifier. It is speaker impedance should be 4 ohm or greater, either stereo or bridged. <u>CAUTION</u>: Never connect any speaker lead to the car chassis or to another lead! For optimum performance, important to use 16 gauge or larger wire for proper signal transfer from the amplifier to the speakers.

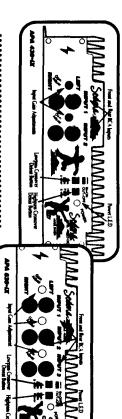
> capable of being bridged into a mono output because of the internal design of the amplifier. This feature permits channel. Also, by bridging the amplifier, the APA 430°iX can become two channel stereo or two channel mono, and the APA 630°iX can become two channel the creation of a mono channel for a subwoofer or center The Sedona APA 430°iX and APA 630°iX are # F I D G I N G

This is accomplished by using the left channel positive stereo with one channel mono or three channel mono. wire as the positive speaker wire and the right channel negative wire as the negative speaker wire. It is important that a minimum 4 ohm impedance is amplifier is wired in a mono drops below 4 ohms while the observed. If the impedance Another benefit of this feature low impedance protection. state, the amplifier will go into





NO TALLATION



being used. The gain control must be adjusted upon installation of the amplifier. First turn the gain all the way down (counter dockwise). Then turn the source unit's volume two-thirds up. Then adjust the gain control until the desired volume is obtained without are used to adjust the input from whatever source is Next to each set of inputs are gain controls. These

in electronic 2-way crossover which provides a low pass 12dB per octave slope at 90Hz along with a high pass 12dB per octave slope at 90Hz. The low pass and high pass crossovers can be activated or deactivated by the buttons on the left side of the amplifier. This provides greater versatility in your overall system design. The APA 430°iX and the APA 630°iX have a built-

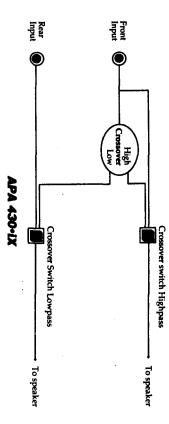
LOW PASS CROSSOVER SLOPE HICH PASS . A.

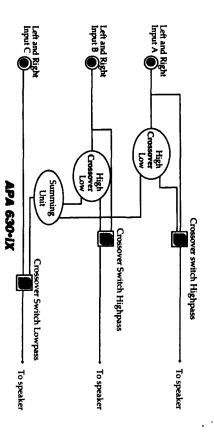
INPUTS

On the left side panel of the APA 430*IX and the APA 630*IX are a set of RCA low level signal imputs for head units, equalizers, crossovers, etc. The APA 430*IX has 4 RCA inputs which may be used as Front Left. Front Right, Rear Left, and Rear Right OR Left and Right High Pass and Left and Right Low Pass. The APA 630*IX has a Front Left and Right High Pass or Full Range, and a third Left and Right Full Range.

S Y S T E M D E S I G N
On the following two pages, you will find
suggested system designs for the APA 430° IX and the
APA 630° IX. Because of the versatility of these
amplifiers, the possible system configurations are
limited only by your imagination. Examine the designs
presented and modify to suit your needs. Remember to optimum performance, a 4 ohm load in stereo and an 8 ohm load in mono are recommended. pay attention to the impedance of the speaker system.

The Sedona amplifiers are capable of operation into a 2 load in a bridged mono configuration. However, for ohm load in a stereo configuration and into a 4 ohm





both buttons out

Full Range

Highpass button In

Output 2 Highpass
Output 1 Full range

Lowpass button In

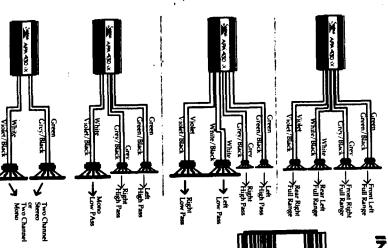
Output 2 Full range

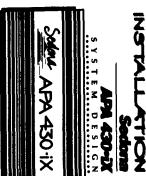
Output 2 Highpass
Output 2 Highpass

both buttons out
Full Range
Highpass button In

Output 1 Highpass
Output 1 Highpass
Output 2 Highpass
Output 3 Full Range
Lowpass button In (Input 3 not used)

Doubut 1 Full range
Output 1 Full range
Output 2 Full range
Output 3 Lowpass
Output 2 Highpass
Output 3 Lowpass
Output 3 Lowpass







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Make sure power and ground are secure.

Does the amp have adequate ventilation?

602/ 437-5207

800/62-POWER

4829 South 38th Street Phoenix, Arizona 85040-2964 U.S.A.

Check speaker for low impedance or damage.

AMP TURNING OFF AT MEDIUM OR HIGH LEVELS The state of the s

White Violet/Black

Right Channel
High l'ass
or
Full Range

Left Channel
High Pass
or
Full Range

Check speakers for low impedance or damage.
Is the amp able to cool properly?

Precision Power, Inc.

AMP TURNING OFF AT LOW LEVELS If the problem is in the unit, have your dealer inspect the unit.

Check pre-amp leads.
Reverse left and right leads to see if the
problem is before the amplifier.

Check speaker leads and inspect for a short to ground or an open connection.

→ Rear Left High Pass

→ Rear Right High Pass

Non-fading
Output
Low Pass

→ Front Right High Pass

→ Front Left High Pass

Non-fading
Output
Low Pass

NO SOUND IN ONE CHANNEL

Is the power LED illuminated? Check fuses in power wire. Be sure turn-on lead is connected.

NOVELEGIONIC

NO SOUND

APA 630 :X

Rear Right
High Pass
High Pass
High Pass
Output
Low Pass

APA 630-DX

→ Front Left
High Pass
Front Right
High Pass

NO TALLATION

