



...is all you need



FXA30

FXA45

FXA1K

PXA PERFORMANCE AMPLIFIER MINI SERIES

CONGRATULATIONS !

You now own an EXCURSION PXA MINI Amplifier from our Performance series, a product of an uncompromising design and german engineering philosophy. A product made from Car Audio fanatics who truly believe in the relentless pursuit of perfection.

EXCURSION amplifiers are the result of several decades of product improvements, competition, innovation and highest quality parts and control standards in industry. When properly installed these PXA Comp Amps will provide you with many years of listening pleasure and are in presence sure on size to Power ratio, Plug Connections and finest MINI Technologies one of the smartest choice for your car audio install.

Should your amplifier ever need a service, Please record your information on the following lines to refer to in the event that you may need it later.

Dealer's Name _____

Date of Purchase _____

Installation Shop _____

Installation Date _____

At EXCURSION Intl. we are confident you will have many years of outstanding enjoyment from your high performance investment. For maximum performance we recommend if you are not involved since many many years in Competition and Installations that you have your new EXCURSION PXA COMP Amplifier installed by an exclusive Authorized EXCURSION Dealer or EXPERT ONLY !!!

To learn more about EXCURSION, please visit us on the World Wide Web at

<http://www.excursion.us>

CAUTION !

Continuous exposure to sound pressure levels in excess of 100dB can cause permanent hearing loss. EXCURSION Products are capable of producing sound pressure levels well over 170dB. Please observe all local sound ordinances while listening to your EXCURSION System. EXCURSION Intl. accepts no liability for hearing loss, bodily injury, or property damage due to the result of use or misuse of this product.

Model	PXA30	PXA45	PXA1K
Description	2 CH STEREO	4 CH STEREO	1 CH MONO
10hm Load @ 14.4V	---	---	600W
20hm Load @ 14.4V	2x250W	4x100W	450W
40hm Load @ 14.4V	2x175W	4x 80W	300W
40hm Load @ 14.4V - BRIDGED	1x500W	2x200W	---
FEATURES			
Amplification	FRD		MONO Digital
Input Sensitivity	0.2 ~ 8.0 V		
Working Range	8V ~ 15.5 V (max)		
Frequency Response	15 ~ 22 KHz	15 ~ 300 Hz	
LPF - Low Pass Filter	40 ~ 200Hz	40 ~ 200Hz	
HPF - High Pass Filter	0 ~ 50Hz	0 ~ 50Hz	
Bass Boost	NA	0~12dB @45Hz	
Optional Remote	NA	YES	
Minimum Load	20hm	10hm	
S/N Ratio	> 85%	100%	
THD @ 40hm Load	< 0.05%	< 0.3%	
Efficiency @ 40hm	> 90%		
Low Voltage Protection	YES < 8Volt		
Overheat Protection	Protect @ 84° / 185F		
Short Circuit Protection	YES - Test PASS		
ext. Fuse Recommendation	Fused inside on PCB Board		
Speaker Terminals	PLUG Adapter		
Cinch Terminal +/-	PLUG Adapter		
Power Terminal +/-	8GA		
Cooling System	Temp remoted Fan Heatmanagement		
DIMENSION			
Height	40 mm		
Width	80 mm		
Length (Heatsink)	120 mm		

- Hide away sized with an only 8cm x 12cm Footprint
- Dual side PCB Layout with SMD Parts
- Full Range & Mono Digital Audio Circuits
- Automatic Turn ON/OFF @ DC
- fully adjustable LPF, HPF, BPF Crossover
- Plug & Play Low & High Level Signal Input Adapter
- Plug & Play High powered Speaker Output Adapter
- Military Standard 8GA Power Terminals
- RoHS, CE and E Standard Compliant
- Overload, Heat, Volt, Short Circuit Protect
- Temp. remoted Fan Heatmanagement
- ISO Speaker Wiring harness optional available
- Remote Controle for PXA 1K optional available
- Heavy Duty MINI size 120mm (L) x 80mm (W) x 40mm (H)

FRONT PANEL LAYOUT

Fig 1. 4Channel Layout

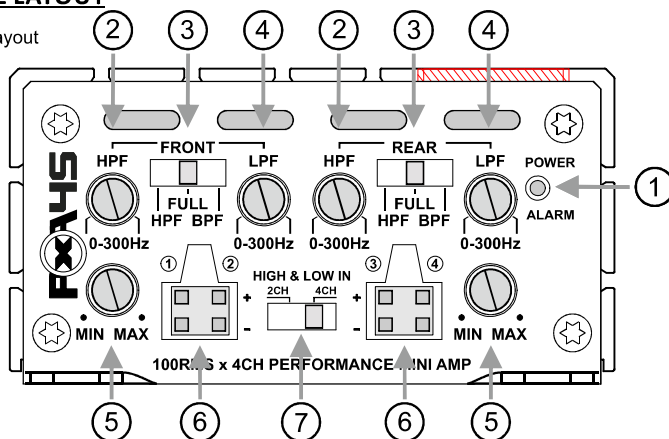


Fig 2. 2Channel Layout

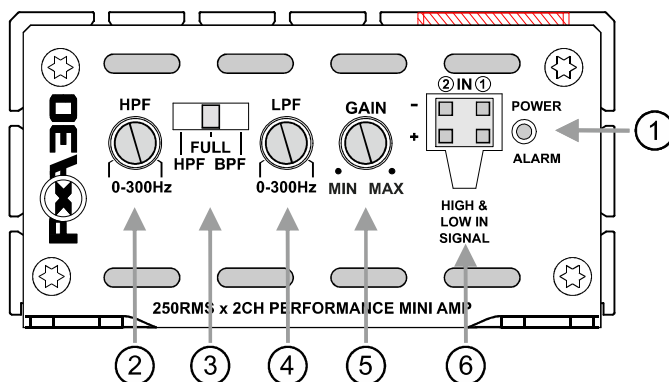
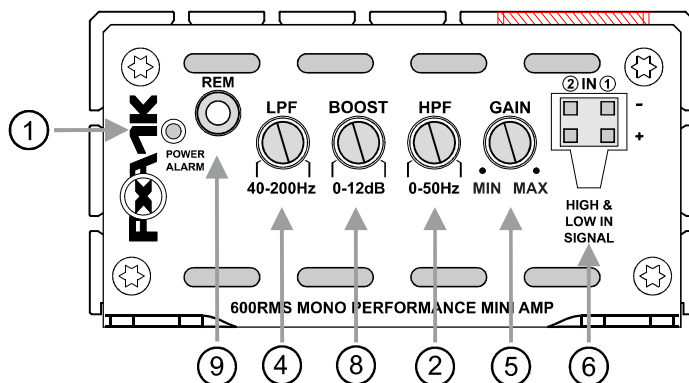


Fig 3. 1Channel Layout



REAR PANEL LAYOUT

Fig 1. 4Channel Layout

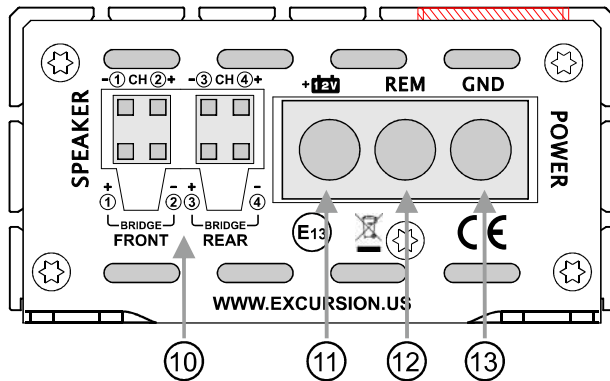


Fig 2. 2Channel Layout

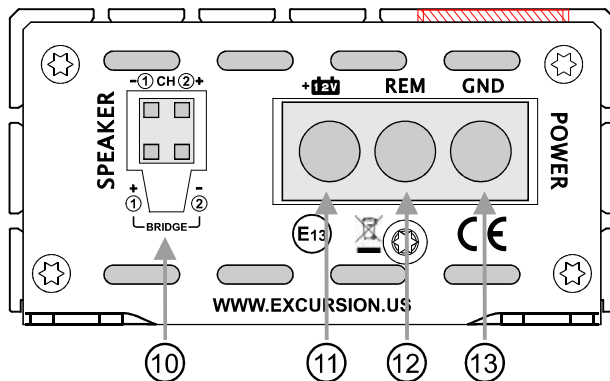
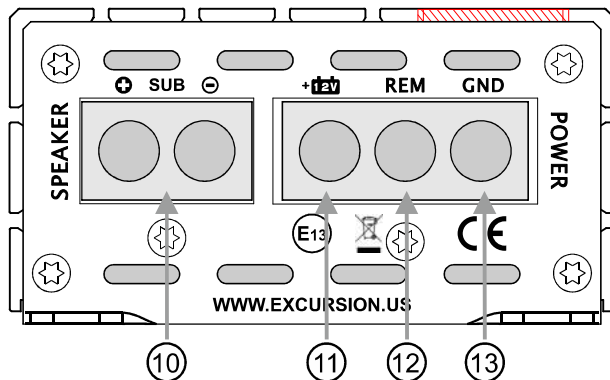


Fig 3. 1Channel Layout



1. POWER & ALARM

When device is powered ON, the POWER LED will turn on blue.

When device enters into protection, the ALARM LED will turn on red.

2. HIGH PASS FILTER Control

This knob controls the frequency x-over point from where Low Frequency can be cut out.

3. X-Over Mode Switch

This Switch select between 3 Options of operating frequency range of your EXCURSION amplifier.

3.1 HPF - High Pass filter the unwanted low frequency range from your audio signal

3.2 FULL - Fullrange setting route your audio signal without any Filter direct to amplification

3.3 BPF - Bandpass setting operate High Pass and Low Pass filter high & low FQ from your audio signal.

4. LOW PASS FILTER Control

This knob controls the frequency x-over point from where High Frequency can be cut out.

5. GAIN Control

The Gain control will match the amplifiers sensitivity to provided source unit signal voltage.

Please keep in mind the Signal Input range is 0,2 up to 8V and more sensitive with setting as usual.

6. RCA Audio Input

These RCA Input jack connect via included Plug&Play RCA Adapter with your source unit Low

Level or High Level Outputs. Optional twisted 1,2m or 4,8m ISO Speaker wire harness available.

Twisted RCA audio cables are recommended to mind possibility of disturbance of the audio signal.

7. Input Mode Switch

This Switch select between 2 Options of operating audio input signals of your EXCURSION amplifier.

7.1 2CH Mode - supply CH 1/3 with LEFT and CH 2/4 with RIGHT Stereo Signals

7.2 4CH Mode - supply each of the 4Channels according their Input Signals.

8. BASS BOOST

This knob adjust the 45Hz signal boost level from 0 up to 12dB. Preferable helpful for small size cars.

9. REMOTE - Bass Level Control

Volume of your PXA Mono Amp can get adjusted via optional remote controller from driver seat.

10. Speaker Terminals

Connect your speaker to these terminals with proper polarity. 2CH and 4CH via included Speaker

Adapter. Never connect speaker cables with chassis ground, effect short circuit and damage amplifier.

11. (+)12 Volt Battery Terminal

Connect with a proper at least 8GA OFC Power Cable to the positive terminal of the car battery.

WARNING: Always protect the Power Cable via Fuse less than 12inch (30cm) from battery terminal.

Note: We have designed the Terminals to fit with Hollywood ENERGETIC HPST8 Adapter = DUAL IN.

12. REM Terminal

This Remote Terminal is to connect with the headunit 12V remote output to turn ON/OFF the amplifier according operating headunit if supported with LOW LEVEL Audio Signals. Supported with HIGH LEVEL or Speaker Output Signals from the Headunit the Amplifier will automatically TURN ON/OFF if DC is provided.

13. GND (Ground Connection)

This terminals are to connect directly to the frame of vehicle. Use shortest distance possible and equal or larger AWG OFC Cable size than +12Volt Battery Cable. Assure frame has been cleaned to bar metal.

WIRING DIAGRAM

Fig 1. PXA 30 STEREO Mode Wiring

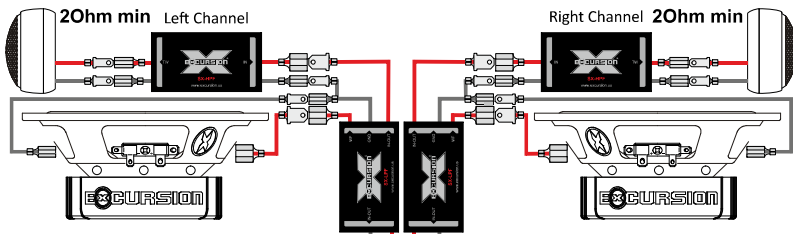
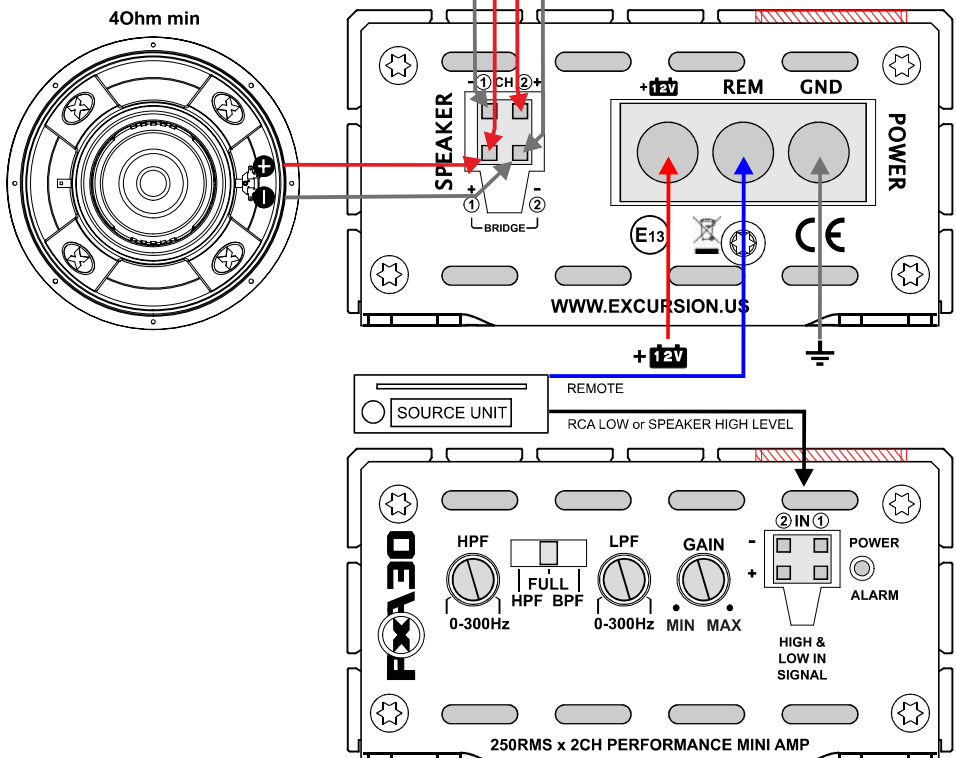


Fig 2. PXA 30 BRIDGE Mode Wiring



WIRING DIAGRAM

Fig 1. PXA 45 STEREO Mode Wiring

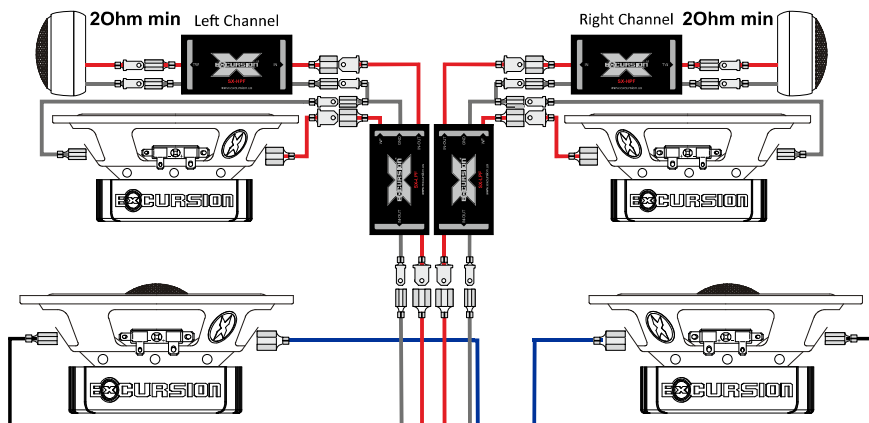
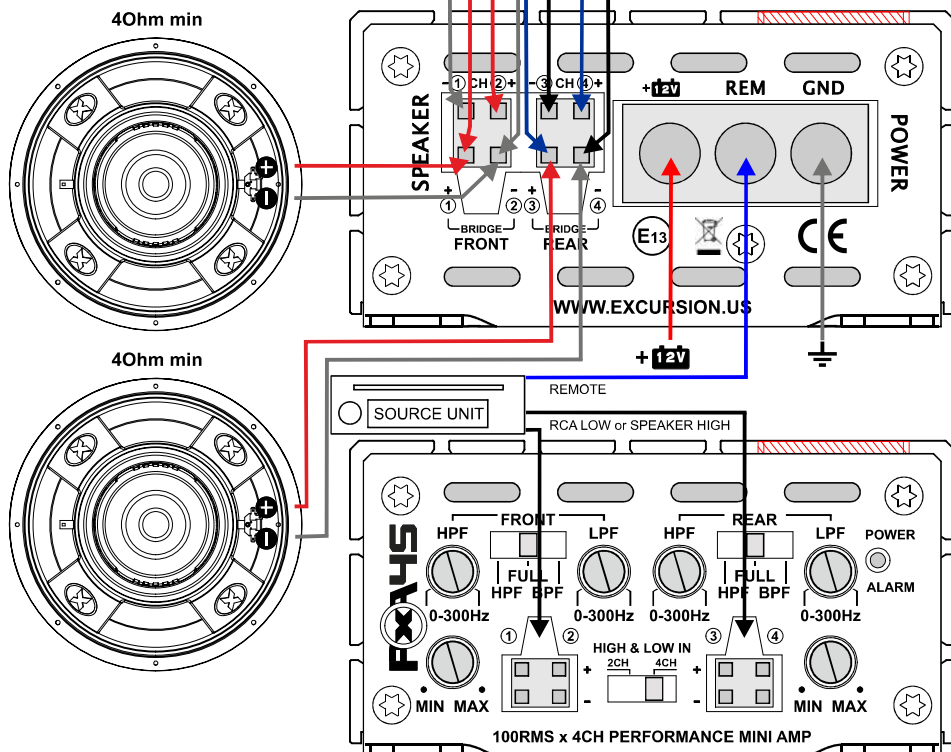


Fig 2. PXA 45 BRIDGE Mode Wiring



WIRING DIAGRAM

Fig 1. PXA 1K MONO Wiring 10hm Load

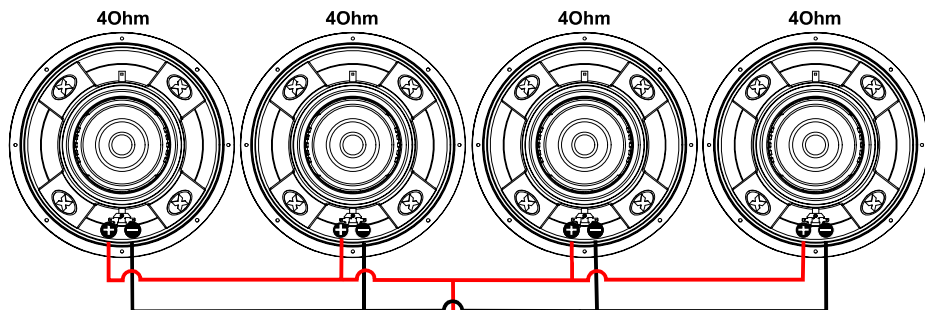
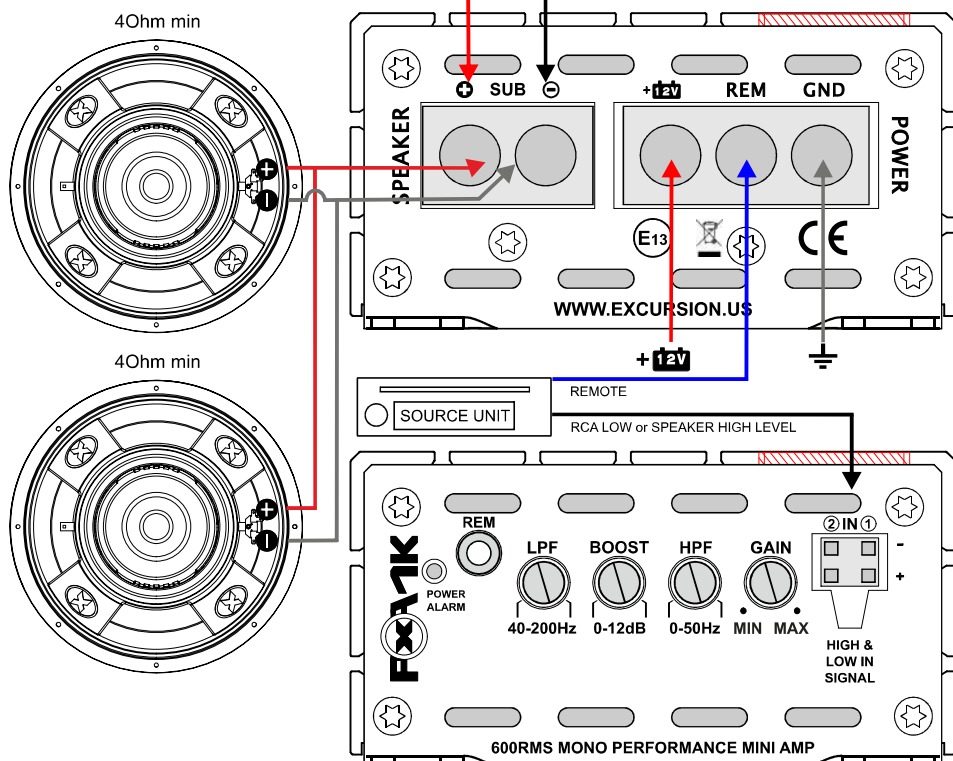


Fig 2. PXA 1K MONO Wiring 20hm Load



TROUBLE SHOOTING

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

INSTALLATION PRECAUTIONS

Before you install the amplifier, investigate your car's 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 car battery. Confirm that your headunit or other equipment is turned off while connecting the input jacks and speakers 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 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 16GA wire if the remote turn ON/OFF Mode is set on REM.
3. Connect the fuse holder within 15" (30cm) of the car battery and run the selected cable from this fuse to the amplifier via additional fuse within max. 15" (30cm) distance to the amplifier.
4. Connect all the inputs with high quality car audio cables to assure the performance of your amplifier.
5. Connect Remote Control if necessary
6. Insert fuse(s) into the battery fuse holder(s).

EXCURSION LIMITED WARRANTY POLICY

EXCURSION Intl. offers limited warranty on EXCURSION products under normal use on the following terms:

EXCURSION Amplifiers are to be free of defects in material and workmanship for a period of one year.

This warranty applies only to EXCURSION products sold to consumers by Authorized EXCURSION Dealers in Germany. Products purchased by consumers from an EXCURSION dealer in another country are covered only by that country's Distributor and not by EXCURSION Intl.

This warranty covers only the original purchaser of EXCURSION product. In order to receive service, the purchaser must provide EXCURSION with the receipt stating the consumer name, dealer, product and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Excursion's discretion and will not be liable for incidental or consequential damages. EXCURSION will not warranty this product under the following situations:

- * **Amplifiers received with apparent rust or corrosion**
- * **Any evidence of liquid damage or exposure to excessive heat**
- * **Attempted repairs or alterations of any nature**
- * **Product that has not been installed according to this owner manual**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. No person is authorized to assume for EXCURSION any other liability in connection with the sale of this product.

For Service demands please call prior your authorized EXCURSION dealer the product got purchased.

In case they are not accessible get in contact with the EXCURSION Customer Service of your Country. You must obtain an RA# (Return Authorization Number) to return any product. The RA number must be prominently marked on the outside of the shipping carton or the delivery will be refused.

Please pack your return carefully! We are not responsible for items damaged in shipping.

Return the defective product along with a copy of the original dated retail sales receipt, plus 10,- EUR for handling and diagnostic evaluation to:

EXCURSION Intl. - A Division of CHPW

Attn: Returns (RA#)

Neustaedter Str. 20

D-92685 Floss / Germany



EXCURSION - A Division of CHPW

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Friedrich-Ebert-Str. 42 - D-92637 Weiden / Germany

