

 **COMPETITION**



...is all you need



 **A25K**

 **A35K**

 **A45K**

STREET COMP FULL BRIDGE AMPLIFIER

CONGRATULATIONS !

You now own an EXCURSION SXA Full Full Bridge Competition Amplifier, 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 SXA Comp Amps will provide you with many years of listening pleasure and are in presence for absolute sure the End of Foodchain in the world of Car Audio Extreme Power Performance. Made to achieve new SPL record standards their home adress are all those competition lanes all over the world.

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 SXA 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	SXA25K	SXA35K	SXA45K
Description	1 Channel (COMPETITION MONO)		
10hm Load @ 12.6V	20000W	30000W	40000W
20hm Load @ 12.6V	10000W	20000W	25000W
40hm Load @ 12.6V	5000W	10000W	15000W
10hm Load @ 14.4V	25000W	35000W	45000W
10hm Load @ 16.0V	up to 30KW	up to 40KW	up to 50KW
FEATURES			
Amplification	Full Bridge Digital		
Input Sensitivity	0.2 ~ 6.0 V Low Level (PRE)		
Working Range	8V ~ 16 V (max)		
Frequency Response	15 ~ 200Hz		
LPF - Low Pass Filter	40 ~ 200Hz		
HPF - High Pass Filter	0 ~ 50Hz		
Bass Boost	0 ~ 12dB @ 45Hz		
Optional Remote	YES		
Minimum Load	10hm		
S/N Ratio	> 85%		
THD @ 40hm Load	< 0.3%		
Efficiency @ 40hm	> 90%		
Low Voltage Protection	YES < 8Volt		
Overheat Protection	Protect @ 84° / 185F		
Short Circuit Protection	YES - Test PASS		
ext. Fuse Recommendation	1800A ~ 2100A	2800A ~ 3200A	3700A ~ 4200A
Speaker Terminals	4GA		
Power Terminal +/-	0GA		
Power Terminal Adapter	4x TRIPPLE 0GA	4x QUAD 0GA	4x QUAD 0GA
DIMENSION			
Height	68 mm		
Width	230 mm		
Length (Heatsink)	750 mm	870 mm	960 mm
Length incl. Speaker/Power/Adapter Terminal	820 mm	940 mm	1030 mm

Designed & Made for Competition and Experts only. Damages are not covered via a standard manufacture warranty.

We recommend all SXA Comp Amplifiers proper installed with their included Tripple and Quad Power Input Adapters. Wired with solid and fine stranding OFC (Oxygen Free Copper) Cables. These shortest distance to the closest next 12V capacity. Cable diameter not less than the INPUT Terminal Diameter.

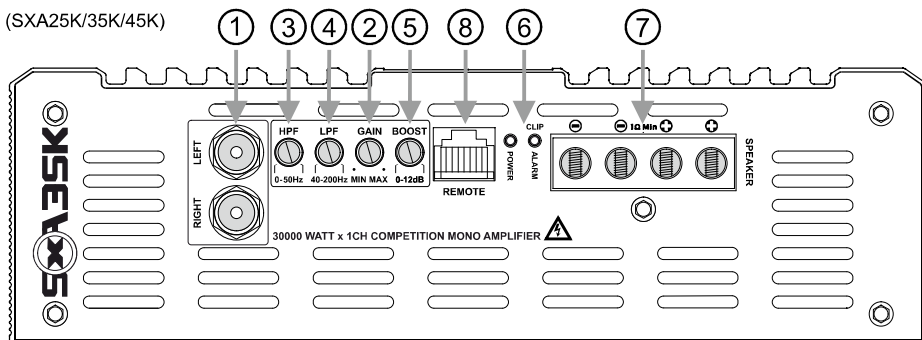
Please mind experiments with CCA (Coper Covered Aluminium) Cable at this high performance levels. At least use not CCA between the Amplifier and your closest 12V Capacity (Cap, LTO or AGM Battery).

All MONO Amplifier already require for proper performance an extra Capacity with short distance to the Amplifier. This to keep up & stable the voltages. This to mind clipping and damages from your electronics and speakers. Solid Car Audio Capicators are usefule up to 2000W. Upper 1000W an extra Car Audio AGM Batterie is necessary required. This Power Level several banks of LTO Cells or highest performance AGM Batteries are minimum required. Don't be under any illusion your Amp will be the most expensive part.

All Amplifiers need external fusing to avoid electronic damages. Asure a max. distance 30cm to the amp. Choose Fuse values according above recommendations. Note for protection of (loading) cable, car & life, there is a Fuse required after the Main batterie and another short before the Rear Batterie. Both with max. distance 30cm to each Batterie. Choose Fuse values according Diameter recommendations of your cable.

FRONT PANEL LAYOUT

(SXA25K/35K/45K)



1. RCA Audio Input

These RCA Input jacks connect with your source unit RCA Low Level Outputs. High quality twisted RCA audio cables are recommended to mind possibility of disturbance the audio signal.

2. GAIN Control

The Gain control will match the amplifier's sensitivity to the provided source unit signal voltage.

3. HIGH PASS FILTER Control

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

4. LOW PASS FILTER Control

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

5. BASS BOOST

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

6. POWER, ALARM & CLIPPING Indicator

When device is powered ON, the POWER LED will turn on green. When device enters into protection, the ALARM LED will turn on red. When signal is clipped, the CLIP LED turns yellow.

7. Speaker Terminals

Connect your speaker to these terminals with proper polarity. Minimum speaker cable 10GA, 8GA OFC strongly recommended. Minimum impedance 10ohm. Never connect the speaker cables with chassis ground, effect short circuit and damage amplifier.

8. REMOTE - Bass Level Control

The Volume of your SXA Comp Amplifier can get adjusted via optional remote controller from driver seat. The SXA VRC Comp even display the voltage of the amplifier, Status and Temperature.

9. High Performance Cooling Fans

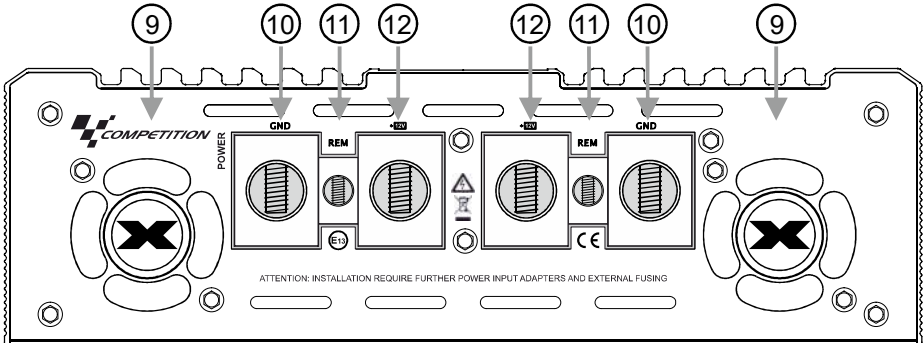
Please choose your amplifier installation location with sufficient air flow around the amplifier.

10. GND (Ground Connection)

These 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. Ensure frame has been cleaned to bare metal.

REAR PANEL LAYOUT

(SXA25K/SXA35K/45K)



11. REM Terminal

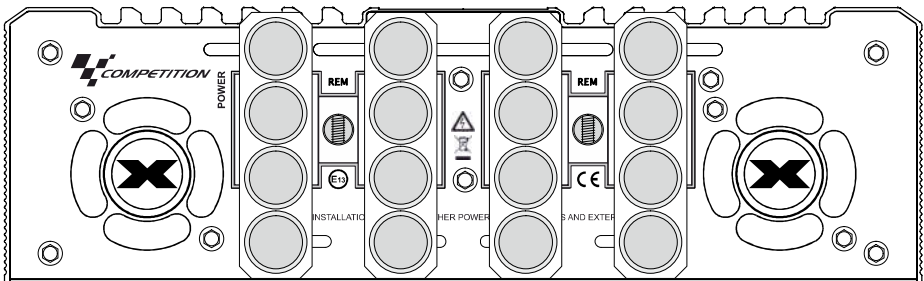
At least one Remote terminal is to connect with headunit 12V remote output to turn ON/OFF the amplifier according to the operating of headunit. If there are more amplifiers distributed via these terminals it might be necessary, depending on REM performance of headunit, to install an additional relay.

12. (+)12 Volt Battery Terminal

Connect these terminals with proper 0 GA size OFC Power Cable through a Fuse to the positive terminal of the car battery or the positive terminal of an isolated external car audio battery.

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

WARNING: SXA Amplifiers need external Fuse not less than 12inch (30cm) from Power terminal. Please follow the maximum Fuse recommendation from Excursion SXA COMP Specifications.



ATTENTION: SXA25K include 4x TRIPPLE. SXA35K & 45K include 4x QUAD POWER INPUT ADAPTERS !!!

CAUTION

Installation of the amplifier should be done in the following steps:

1. Ensure that the ground is appropriate, then connect it to the amplifier.
2. Next step is to connect the +12V wire. Ensure all power terminals are used.
This cable has to be fused for safety precautions.
3. The final step is connecting the switched remote.

TROUBLESHOOTING

Assure that the Power LED is on, if so please proceed with step # 3, if not, continue with the steps below;

1. Check the in line fuse (s) on the battery's positive cable, replace if needed.
2. Assure that the Ground is properly attached to the vehicle's chassis on a clean metal point, tighten or grind the connection point once again.
3. Our amplifiers have a high voltage protection. Make sure that the operating voltage is between 8.5V~16V and voltages above this range will cause the amplifier to go into protect.

Protect LED is ON

The Protect LED will come on due to the possible circumstances;

1. The impedance connected is under the specified load.
2. Thermal (Overheat), allow for a more suitable mounting as recommended in the install section. Thermal may also appear if the impedance is under the specified or the voltage is inadequate.
3. Short circuitry, voltage and DC offset.
Short circuitry, go through all cables including speaker wires, GND, battery's positive cable. Voltage, please check step # 3, for DC offset, make sure that a voltage of no more than 4V is available. Remove the RCA from the input and check whether the amplifier comes out of protect. If so, check if the output from the Head unit has a DC of 4V, replace / repair if needed.

Audio output (No sound)

1. Assure that RCA connections from the Head unit and the amplifier is properly connected. Check the entire cable for damages or its like. Test the RCA inputs for DC volts with the source unit on, replace / repair if needed.
2. Check the routing of the cables, fuses and verify that all connections are connected accordingly.
3. Check whether the speakers are functional.

Turn on Thump

Disconnect the signal input to the amplifier, then turn it on and off.

1. If the noise is cancelled, then connect a delay turn on module on the REM wire running from the source unit to the amplifier.
2. Use another 12V source for REM lead to the amplifier. If the noise is cancelled, use a relay to isolate the amplifier from the turn on thump.

Poor Bass Response

1. Check that the polarity of the speaker cables are correct. Speakers connected in anti-phase will cancel each other, thus the bass response will be absent.

Engine Noise

1. Ensure that all signal transferring wires (RCA, speaker cables etc) are kept separate from the power and the ground wires.
2. Bypass all electrical components between the Head unit and the amplifier.
Connect the Head unit directly to the amplifier's input. If the noise is eliminated, the unit bypassed is the one causing the noise.
3. Remove the existing ground wires for all electrical components installed. Ensure that the point of ground is 100% metal which has been grinded free of rust, paint etc.
4. Replace the ground cable from the OEM battery / alternator and ensure it is grounded accordingly.
5. Test the battery and alternator load (can be carried out by a professional).
Ensure that the vehicle's electrical system is in a good condition, this includes distributor, spark plugs / wires, voltage regulators etc.



EXCURSION LIMITED WARRANTY POLICY

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

EXCURSION SXA COMP Amps are to be free of defects in material and workmanship at day of purchase.

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.

SXA COMP Amps are designed to the limits and made for the Competition and use for EXPERTS ONLY.

SXA COMP Amps are not designed and made for Consumer and their dailey demands to listen Music.

Customer need read an owner manual and those actually read it are already recommended to contact the national EXCURSION Distributor for further advice to a qualified Expert before start an experiment.

Unmistakable we point out that working at those demanded HIGH CURRENTs and Sound Pressure Levels can get in multiways dangerous, need a lot of care and are to be done on own risk of life and injury ONLY. EXCURSION Int. and the allover authorized sales structure assumes no liability under any circumstances of material damages of car, life or injuries of the installers, owners and passengers in- and outside the car.

With purchase of SXA COMP amplifier the owner accept and sign these terms for SXA COMP Product.

.....
City, Date

.....
Customer, Owner

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



...is all you need



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

