



*...is all you need*



**SXR 802**

**SXR 804**

**SXR 1002**

**SXR 1004**

**SXR 1202**

**SXR 1204**

**SXREFERENCE PERFORMANCE v.2**

### CONGRATULATIONS !

You now own an EXCURSION SXR.v2 REFERENCE Subwoofer, a new T Generation product of an uncompromising design and german engineering philosophy. A product made from and for Car Audio fanatics who truly believe in the relentless pursuit of perfection. A product made to be our flagship and the entry into the new EXCURSION design concept 2020.

EXCURSION Subwoofers are the result of several decades of product improvements, competition, innovation and highest quality parts and control standards in industry. When properly installed these speakers will provide you with many years of listening pleasure and are the perfect balance between high fidelity, extreme performance and long-lasting reliability.

Should your SXR.v2 Subwoofer 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 that you have your new EXCURSION SXR.v2 Subwoofer installed by an exclusive Authorized EXCURSION Dealer

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 Speakers 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.

## EXCURSION\_SXR.v2 SUBWOOFER FEATURE

What we call our REFERENCE series is again in our 2nd version our flagship and the entry into the new EXCURSION design concept 2020. Our REFERENCE always stand for our engineering philosophy, adopt today the new Generation T. But no doubt SXR stay for always our best bass buddies in our EXCURSION world. Those are Dads with whom others but better not invest and should stay away.

Innovations from previous decades once again meet new materials and create fresh ideas of our time. As result, are much further ahead than ever expected. Performance totally unexpected to be possible in this price range.

A lightweight, yet thick natural paper cone with kraft pulp cores convinces with a dry and a voluminous impressive deep bass performance that keeps no eye dry. Our oversized and red-stitched rubberized foam surrounds allow unlimited movement in our completely redesigned EXCURSION T steel basket stiffened with our X embossing. A multi-stage cooling takes place in quadruple form by the circulation of the lateral ventilation openings of the basket and the upper ventilation openings of the bobbin, down to the voice coil nip and the ventilation openings and centrally through the core bore of the bottom plate. Our 4 layered 35mm high OFC copper coil is wounded on solid 2.5 "aluminum former and fits into our larger-sized linear spider. With blood-red color and the same-colored seams of the surround, they also set new visual accents and contrasts.

However, our optimized 220 Oz Motor also ensures exact movements and acceleration. This comes now only, but for, with a single oversized magnet stack and reaches lossless another more on POWER. Brand-typical, of course, were dispensed with in the new SXR.v2 series on the market cheap compression spring terminal and instead, similar to power connections of amplifiers, feature massive double 10mm<sup>2</sup> high current terminals and allen screws. This ensures lossless perfect contact under the most extreme working conditions.

In another option and in the accessories range of Hollywood ENERGETIC you will find suitable HPST8 (10mm<sup>2</sup> double Power Support Terminals). This means that even in the REFERENCE class a connection cabling of up to 8x 10mm<sup>2</sup> OFC cable leads for each subwoofer is theoretically possible.

This certainly makes every perfectionist sleep absolutely quiet.

### Pre-Installation Instructions:

It is recommended that you have your new EXCURSION SXR.v2 Sub professionally installed by your authorized EXCURSION dealer. This will ensure use of proper installation techniques & materials. If you choose to perform your own installation, the following instruction will give you direction making your purchase complete.

The factors for the port area are manifold and can not be reduced only to depend on the cone area of the woofer that is used. But at least it is a good advice not to go with less than  $1/7$  of the cone area for ported and  $1/4$  for bandpass enclosures.

While you are building up and tuning your sub system you should use a trial-port. This should be longer than calculated or recommended. While tuning the system you can find the best sounding length by shortening the port in approx 2 cm steps. The final tuning in the car does not only result out of what you do with the port. Also the position of the port in the enclosure and surrounding areas and position in the trunk have notable impact. The load-through of rear seats are also uncalculable as well size and construction type of the car. This easy effect with different results.

Please do NOT use carpet or cloth within the port or inside the enclosure. It has bad effects on the air flow. It is recommended to round up the ends of the port and ensure a glossy surface where ever the air moves inside the enclosure or port. The moving air mass will speed up and thank you by producing less side noises.

You can also prevent the port itself from resonating. The techniques are the same as you know from building enclosures or damping doors. You can use energy absorbing material or you can raise the stiffness of the port by bracing.

To have your subwoofer system playing clear and accurate you must follow the idea of an acoustical "dead" workplace, with just the moving cone. First of all, the enclosure itself might be not rigid enough. In most cases you can raise the stiffness by implementing braces, that connect in best way four walls. Or at least stiff up the baffle against back-wall. You can build enclosures with wallthickness of many centimetres, but bracing will have same effect with less weight! Now, when your enclosure is stiff and rigid to save you against bomb attacks, you can put it in your trunk. Do not forget it is important to fix it in the trunk of your car.

**For further direction consult an authorized EXCURSION installation specialist**

If you are intending to use multiple subwoofers in your system, EXCURSION recommends having separate chambers for each subwoofer if the subwoofers will be operated by different amplified signals. This prevents possible cancellation.

**WARNING:** The use of silicone rubber to seal in a speaker will void the Warranty! If sealing is needed to the speaker gasket, use caulking cord or vinyl weather strip.

**IMPORTANT:** Never cut any metal that is an integral part of an automobile's safety or structural support system.

**NOTE:** EXCURSION strongly recommends that you operate the complete audio system at low volume before final installation of your MXT Series Subwoofers. This will allow a trial listening test to set maximum volume without distortion.

**CAUTION:** Make sure that all speaker wiring is fully protected from cutting or wear. Any short circuits developing as a result could severely damage the radio unit or amplifier. Make sure that all speaker wires easily reach the speaker terminals without stress on the wire or connectors.

#### PREPARING FOR INSTALLATION

**Note: The tools listed below may be required for proper installation.**

- \* An electric drill with drill bits
- \* Phillips-head and standard screwdrivers
- \* Crimping tool and needle-nose pliers
- \* Silicon sealant or closed cell weather-stripping
- \* Metal file, Hole saw, Tin Snips, Wire strippers

#### INSTALLATION PRECAUTIONS

**Note: Proceed only if you are a qualified installer otherwise let your dealer do it.**

- \* Always wear protective eyewear when using tools
- \* Turn OFF all stereo and other electrical devices before you begin
- \* Disconnect the (-) negative lead from your vehicle's battery.
- \* Keep the speakers in the package until final installation.
- \* Locate fuel lines, brake lines, oil lines, electrical cables when planning installation.
- \* Check to see clearance behind the mounting surface before installing speakers.
- \* When running speaker wires through sheet metal, be sure to use grommets to properly insulate the wires from metal edges.

SXR.v2 8-D2 SPECIFICATIONS

Overall Dimensions	214*127	mm
Nominal Power Handling	400	W/RMS
Transient Power 10ms	1000	W/MAX
Sensitivity	88	SPLO
Frequency Response	49-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	4.0	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 1.85	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	50.8	mm
Voice Coil Height	28	mm
HE Magnetic Gap Height	6	mm
Max.Linear Excursion	11 / 22	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	12.43	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.103
Mechanical Q Factor	Qms	5.4
Electrical Q Factor	Qes	0.74
Total Q Factor	Qts	0.65
Moving Mass	Mms	99.6
Eq.Cas Air Load( liters)	VAS	5.93
Resonant Frequency	Fs	49
Effective Piston Area	SD	201.06

NOTE:TS Measurement Connection: Series

Ported 8" SPL Box :

Internal Volume: 30,3 Liter  
 VB nett Volume: 26,6 Liter  
 Port Diameter: 1x 100mm  
 Port Length: 250mm  
 F3: 41,9 Hz  
 F3: 53,4 Hz

Ported 8" SQPL Box :

Internal Volume: 20,8 Liter  
 VB nett Volume: 16,0 Liter  
 Port Height: 25 mm  
 Port Wide: 238 mm  
 Port Length: 359 mm  
 F3: 44,1 Hz - FB: 54,4 Hz

SXR.v2 8-D4 SPECIFICATIONS

Overall Dimensions	214*127	mm
Nominal Power Handling	400	W/RMS
Transient Power 10ms	1000	W/MAX
Sensitivity	88	SPLO
Frequency Response	48-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	4.0	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 4	Ohm
DC Resistance	Dual 3.8	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	50.8	mm
Voice Coil Height	28	mm
HE Magnetic Gap Height	6	mm
Max.Linear Excursion	11 / 22	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	7.55	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.123
Mechanical Q Factor	Qms	5.08
Electrical Q Factor	Qes	0.74
Total Q Factor	Qts	0.64
Moving Mass	Mms	86.38
Eq.Cas Air Load( liters)	VAS	7.06
Resonant Frequency	Fs	46
Effective Piston Area	SD	201.06

NOTE: TS Measurement Connection: Paralell

Ported 8" SPL Box :

Internal Volume: 30,3 Liter  
 VB nett Volume: 26,6 Liter  
 Port Diameter: 1x 100mm  
 Port Length: 250mm  
 F3: 41,9 Hz  
 F3: 53,4 Hz

Ported 8" SQPL Box :

Internal Volume: 20,8 Liter  
 VB nett Volume: 16,0 Liter  
 Port Height: 25 mm  
 Port Wide: 238 mm  
 Port Length: 359 mm  
 F3: 44,1 Hz - FB: 54,4 Hz

SXR.v2 10-D2 SPECIFICATIONS

Overall Dimensions	262*171	mm
Nominal Power Handling	600	W/RMS
Transient Power 10ms	1500	W/MAX
Sensitivity	89	SPLO
Frequency Response	39-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	7.0	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 1.9	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	61.1	mm
Voice Coil Height	35	mm
HE Magnetic Gap Height	8	mm
Max.Linear Excursion	13.5 / 27	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	15.8	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.088
Mechanical Q Factor	Qms	5.45
Electrical Q Factor	Qes	0.68
Total Q Factor	Qts	0.6
Moving Mass	Mms	178.5
Eq.Cas Air Load( liters)	VAS	12.44
Resonant Frequency	Fs	39
Effective Piston Area	SD	314.1

NOTE:TS Measurement Connection: Series

Ported 10" SPL Box :

Internal Volume: 42.8 Liter  
 VB nett Volume: 38,8 Liter  
 Port Diameter: 2x 75mm  
 Port Length: each 240mm  
 F3: 41,5 Hz  
 F3: 49,4 Hz

Ported 10" SQPL Box :

Internal Volume: 40 Liter  
 VB nett Volume: 31,3 Liter  
 Port Height: 38 mm  
 Port Wide: 332 mm  
 Port Length: 390 mm  
 F3: 44,8 Hz - FB: 53 Hz



### SXR.v2 10-D4 SPECIFICATIONS

Overall Dimensions	262*171	mm
Nominal Power Handling	600	W/RMS
Transient Power 10ms	1500	W/MAX
Sensitivity	89	SPLO
Frequency Response	43-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	7.0	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 4	Ohm
DC Resistance	Dual 3.2	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	61.1	mm
Voice Coil Height	35	mm
HE Magnetic Gap Height	8	mm
Max.Linear Excursion	13.5 / 27	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	9.08	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.093
Mechanical Q Factor	Qms	5.5
Electrical Q Factor	Qes	0.759
Total Q Factor	Qts	0.66
Moving Mass	Mms	142.4
Eq.Cas Air Load( liters)	VAS	13.03
Resonant Frequency	Fs	43
Effective Piston Area	SD	314.1

NOTE: TS Measurement Connection: Parallel

Ported 10" SPL Box :

Internal Volume: 42.8 Liter  
 VB nett Volume: 38,8 Liter  
 Port Diameter: 2x 75mm  
 Port Length: each 240mm  
 F3: 41,5 Hz  
 F3: 49,4 Hz

Ported 10" SQPL Box :

Internal Volume: 40 Liter  
 VB nett Volume: 31,3 Liter  
 Port Height: 38 mm  
 Port Wide: 332 mm  
 Port Length: 390 mm  
 F3: 44,8 Hz - FB: 53 Hz

SXR.v2 12-D2 SPECIFICATIONS

Overall Dimensions	318*192	mm
Nominal Power Handling	600	W/RMS
Transient Power 10ms	1500	W/MAX
Sensitivity	90	SPLO
Frequency Response	31-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	7.4	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 1.9	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	61.1	mm
Voice Coil Height	35	mm
HE Magnetic Gap Height	8	mm
Max.Linear Excursion	13.5 / 27	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	15.57	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.125
Mechanical Q Factor	Qms	5.11
Electrical Q Factor	Qes	0.62
Total Q Factor	Qts	0.55
Moving Mass	Mms	197.1
Eq.Cas Air Load( liters)	VAS	39.7
Resonant Frequency	Fs	31
Effective Piston Area	SD	471.4

NOTE:TS Measurement Connection: Series

Ported 12" SPL Box :

Internal Volume: 60 Liter  
 VB nett Volume: 50 Liter  
 Port Height: 250 mm  
 Port Wide: 100 mm  
 Port Length: 300 mm  
 F3: 53 Hz - FB: 60 Hz

Ported 12" SQPL Box :

Internal Volume: 80 Liter  
 VB nett Volume: 70 Liter  
 Port Height: 250 mm  
 Port Wide: 100 mm  
 Port Length: 300 mm  
 F3: 45 Hz - FB: 52 Hz

### SXR.v2 12-D4 SPECIFICATIONS

Overall Dimensions	318*192	mm
Nominal Power Handling	600	W/RMS
Transient Power 10ms	1500	W/MAX
Sensitivity	90	SPLO
Frequency Response	32-300	HZ
Cone Material	Pulp in Matrix	.
Net Weight	7.4	kg
<b>Electrical Data</b>		
Nominal Impedance	Dual 4	Ohm
DC Resistance	Dual 3.2	Ohm
<b>Voice Coil and Magnet Parameters</b>		
Voice Coil Diameter	61.1	mm
Voice Coil Height	35	mm
HE Magnetic Gap Height	8	mm
Max.Linear Excursion	13.5 / 27	mm
Voice Coil bobbin	Aluminium Black	.
Voice Coil Wire	OFC Copper	.
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	.
BL Product	9.0	N.A.
<b>T-S Parameters</b>		
Suspension Compliance	Cms	0.133
Mechanical Q Factor	Qms	5.29
Electrical Q Factor	Qes	0.71
Total Q Factor	Qts	0.62
Moving Mass	Mms	174.2
Eq.Cas Air Load( liters)	VAS	42.2
Resonant Frequency	Fs	32
Effective Piston Area	SD	471.4

NOTE: TS Measurement Connection: Parallel

Ported 12" SPL Box :

Internal Volume: 60 Liter  
 VB nett Volume: 50 Liter  
 Port Height: 250 mm  
 Port Wide: 100 mm  
 Port Length: 300 mm  
 F3: 53 Hz - FB: 60 Hz

Ported 12" SQPL Box :

Internal Volume: 80 Liter  
 VB nett Volume: 70 Liter  
 Port Height: 250 mm  
 Port Wide: 100 mm  
 Port Length: 300 mm  
 F3: 45 Hz - FB: 52 Hz

## SPECIFICATIONS FOR EXCURSION SXR SUBWOOFER SERIES

(Due to Constant Improvements, Specifications and Parameters are subject to change without notice)

	Size	Nominal Impedance	Power RMS/PEAK	Sensitivity 1W/1m	Motor Size	Mounting Depth	Inner Dia. Cut out	Outer Dia.	Kg
SXR.v2 8D2	8"/20cm	2x20ohm	400 / 1000W	88 dB	120 oz.	108mm	186mm	214mm	4.0
SXR.v2 10D2	10"/25cm	2x20ohm	600 / 1500W	89 dB	220 oz.	147mm	232mm	262mm	7.0
SXR.v2 12D2	12"/30cm	2x20ohm	600 / 1500W	90 dB	220 oz.	165mm	285mm	318mm	7.4
SXR.v2 8D4	8"/20cm	2x40hm	400 / 1000W	88 dB	120 oz.	108mm	186mm	214mm	4.0
SXR.v2 10D4	10"/25cm	2x40hm	600 / 1500W	89 dB	220 oz.	147mm	232mm	262mm	7.0
SXR.v2 12D4	12"/30cm	2x40hm	600 / 1500W	90 dB	220 oz.	165mm	285mm	318mm	7.4

**CAUTION:** Excursion Subwoofer are capable of producing dangerous SPL levels

**ATTENTION:** Excursion Subwoofer demand at least 50 hours break in time for maximum Performance.



## EXCURSION LIMITED WARRANTY POLICY

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

**EXCURSION Speakers 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:

- \* **Speakers received with bent frames or water damages**
- \* **Abuse such as holes in the cone, surround or ripped spider**
- \* **Voice coil damage due to amplifier clipping or distortion**
- \* **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.

**Please call prior your authorized EXCURSION dealer** the product got purchased. In case they are not accessible call 0961-416-0420 for EXCURSION Customer Service. You must obtain an RA# (Return Authorization Number) to return any product to EXCURSION Intl. 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**



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**EXCURSION - A Division of CHPW**

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