



...is all you need



- MXT1201**
- MXT1202**
- MXT1501**
- MXT1502**
- MXT1801**
- MXT1802**

v.2

MXT MAXTREME COMPETITION BITCH

CONGRATULATIONS !

You now own an EXCURSION MXT MAXTREME Subwoofer, the 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. A product made for the single goal to be the ultimate choice for SPL Competition.

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 MXT 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 MXT 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 MXT.v2 SUBWOOFER FEATURE

We state clearly that even our MXT.v2 Bitches are nothing you will ever need. This is why we call them Bitch. We have made them for the single goal of madness or this single moment boys grow to men in the competition lane.

These MXT.v2 Bitches feature a verly light kraft pulp sandwich Cone with Carbon Fibers in enforcements. This pulped sandwich structure keeps high parts of internal air chambers which decrease weight, but increase thickness, stiffness and effect in higher damping for lower FS. All this while keeping exeptionally stable and pimped with a circle of 8pc 3GA vent holes below our full Carbon Dustcap area for a contious cooling airflow of the critical VC Structure. The cone and its choices of material effect almost everything in regard to the Performance Quality of the sub. While the cone must remain exeptionally stable under all the stress of high sound pressure levels, a well balanced formula of maximum stiffness via minimum weight is the keypoint.

MXT.v2 Bitches feature a narrow and extra High Roll Rubatek Foam surround able to secure unlimited and especially fast movements of Peaks, but with a maximum size of fact cone area. Another keypoint to go ahead in the lane.

Both landed in the most famous TC sound competition basket with an outstanding 10" spider landing and screwed Dual Spider in Rings for maximum precision in craftsmanship. Those are the home of our dual linear several composite spiders with Dual 10GA high grade Tinsseal, which are wooven from every military standard allen screw terminal to each voice coil. Our Terminals accept up to 8GA power speaker cables, but are even designed for some optional Dual Hollywood ENERGETIC Terminals (HPST8) to step from 4x 8GA up to 8x 8GA INPUT.

The exclusive heart of our MXT.v2 are our 4layer aluminium 3" light weight high temperature Voice Coil Technology with an outstanding 60mm of Roll Range height. Black liquid coated for an extra on cooling with the top vented lightless aluminium former. Present a tripple stacked closed Motorstructure of 800oz sheer Power, which effect into an impulse to compare with a gun ...and, by the way in manner of a Bitch, with the most sexy ass alllover our Excursion range.

At the end we cover everything with an individually die cast aluminium Gasket Ring Tooling. A perfect finish for a perfect handling and a perfect product. We carefully laser cut our EXCURSION logos there to assure that you will at once know whom you fall in love if our MXT.v2 Bitches get you in their car...

MXT Formula Two design is made for the track and not the road, but even easily step up to High End as there is no possibility to leave away any kind of musical information of your records. No compromises. If you feel apointed for the podium than this is your way our Bitches will route you

Pre-Installation Instructions:

It is recommended that you have your new EXCURSION MXT 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.

MXT 12-D1 SPECIFICATIONS

Overall Dimensions	314*270	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	90.6	SPLO
Frequency Response	52-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	26.4	kg
Electrical Data		
Nominal Impedance	Dual 1	Ohm
DC Resistance	Dual 1	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	17.73	N.A
T-S Parameters		
Suspension Compliance	Cms	0.03
Mechanical Q Factor	Qms	5.71
Electrical Q Factor	Qes	0.62
Total Q Factor	Qts	0.56
Moving Mass	Mms	298
Eq.Cas Air Load(liters)	VAS	12.4
Resonant Frequency	Fs	52
Effective Piston Area	SD	530.9
		cm ²

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

MXT 12-D2 SPECIFICATIONS

Overall Dimensions	314*270	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	90.6	SPLO
Frequency Response	52-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	26.4	kg
Electrical Data		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 2	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	23.93	N.A
T-S Parameters		
Suspension Compliance	Cms	0.034
Mechanical Q Factor	Qms	5.6
Electrical Q Factor	Qes	0.62
Total Q Factor	Qts	0.55
Moving Mass	Mms	291
Eq.Cas Air Load(liters)	VAS	13.88
Resonant Frequency	Fs	51
Effective Piston Area	SD	530.9
		cm ²

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

MXT 15-D1 SPECIFICATIONS

Overall Dimensions	395*305	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	93.6	SPLO
Frequency Response	46-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	27.8	kg
Electrical Data		
Nominal Impedance	Dual 1	Ohm
DC Resistance	Dual 1	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	18.2	N.A
T-S Parameters		
Suspension Compliance	Cms	0.027
Mechanical Q Factor	Qms	5.79
Electrical Q Factor	Qes	0.74
Total Q Factor	Qts	0.65
Moving Mass	Mms	418
Eq.Cas Air Load(liters)	VAS	26.96
Resonant Frequency	Fs	46
Effective Piston Area	SD	829.5

NOTE:TS Measurement Connection: Series

Ported 15" SPL Box :

Internal Volume: 90 Liter
 VB nett Volume: 75 Liter
 Port Height: 300 mm
 Port Wide: 125 mm
 Port Length: 275 mm
 F3: 50 Hz - FB: 60 Hz

Ported 15" SQPL Box :

Internal Volume: 120 Liter
 VB nett Volume: 100 Liter
 Port Height: 300 mm
 Port Wide: 150 mm
 Port Length: 300 mm
 F3: 45 Hz - FB: 54 Hz

MXT 15-D2 SPECIFICATIONS

Overall Dimensions	395*305	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	92.9	SPLO
Frequency Response	46-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	27.8	kg
Electrical Data		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 2	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	24.4	N.A
T-S Parameters		
Suspension Compliance	Cms	0.031
Mechanical Q Factor	Qms	5.81
Electrical Q Factor	Qes	0.78
Total Q Factor	Qts	0.68
Moving Mass	Mms	412
Eq.Cas Air Load (liters)	VAS	27.2
Resonant Frequency	Fs	47
Effective Piston Area	SD	829.5

NOTE: TS Measurement Connection: Series

Ported 15" SPL Box :

Internal Volume: 90 Liter
 VB nett Volume: 75 Liter
 Port Height: 300 mm
 Port Wide: 125 mm
 Port Length: 275 mm
 F3: 50 Hz - FB: 60 Hz

Ported 15" SQPL Box :

Internal Volume: 120 Liter
 VB nett Volume: 100 Liter
 Port Height: 300 mm
 Port Wide: 150 mm
 Port Length: 300 mm
 F3: 45 Hz - FB: 54 Hz

MXT 18-D1 SPECIFICATIONS

Overall Dimensions	465*343	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	94.8	SPLO
Frequency Response	40-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	28.4	kg
Electrical Data		
Nominal Impedance	Dual 1	Ohm
DC Resistance	Dual 1	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	18.35	N.A
T-S Parameters		
Suspension Compliance	Cms	0.034
Mechanical Q Factor	Qms	5.33
Electrical Q Factor	Qes	0.69
Total Q Factor	Qts	0.61
Moving Mass	Mms	472
Eq.Cas Air Load(liters)	VAS	66.37
Resonant Frequency	Fs	39
Effective Piston Area	SD	1164.1
		cm ²

NOTE:TS Measurement Connection: Series

MXT 18-D2 SPECIFICATIONS

Overall Dimensions	465*343	mm
Nominal Power Handling	2500	W/RMS
Transient Power 10ms	7500	W/MAX
Sensitivity	94.8	SPLO
Frequency Response	40-300	Hz
Cone Material	Pulp in Matrix	
Net Weight	28.4	kg
Electrical Data		
Nominal Impedance	Dual 2	Ohm
DC Resistance	Dual 2	Ohm
Voice Coil and Magnet Parameters		
Voice Coil Diameter	76.5	mm
Voice Coil Height	60	mm
HE Magnetic Gap Height	23	mm
Max.Linear Excursion	20 / 40	mm
Voice Coil bobbin	Black Aluminium	
Voice Coil Wire	CCAR	
Number Of Layers	4	layers
Magnet System Type	High Flux Ferrite	
BL Product	25.29	N.A
T-S Parameters		
Suspension Compliance	Cms	0.034
Mechanical Q Factor	Qms	5.41
Electrical Q Factor	Qes	0.71
Total Q Factor	Qts	0.63
Moving Mass	Mms	462
Eq.Cas Air Load(liters)	VAS	67.2
Resonant Frequency	Fs	39
Effective Piston Area	SD	1164.1
		cm ²

NOTE:TS Measurement Connection: Series

SPECIFICATIONS FOR EXCURSION MXT SUBWOOFER SERIES

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

Model	Size	Nominal Impedance	Power RMS/PEAK	Sensitivity 1W/1m	Motor Size	Mounting Depth	Inner Dia. Cut out	Outer Dia.	Kg
MXT-12 D1	12"/30cm	2x1Ohm	2500 / 7500 W	90.6 dB	800 oz.	242mm	287mm	279mm	26,4
MXT-15 D1	15"/38cm	2x1Ohm	2500 / 7500 W	93.3 dB	800 oz.	275mm	362mm	318mm	27,8
MXT-18 D1	18"/46cm	2x1Ohm	2500 / 7500 W	94.8 dB	800 oz.	302mm	428mm	394mm	28,4
MXT-12 D2	12"/30cm	2x2Ohm	2500 / 7500 W	90.6 dB	800 oz.	242mm	287mm	318mm	26,4
MXT-15 D2	15"/38cm	2x2Ohm	2500 / 7500 W	93.3 dB	800 oz.	275mm	362mm	394mm	27,8
MXT-18 D2	18"/46cm	2x2Ohm	2500 / 7500 W	94.8 dB	800 oz.	302mm	428mm	470mm	28,4

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



...is all you need



EXCURSION - A Division of CHPW

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Friedrich-Ebert-Str. 42 - D-92637 Weiden / Germany
Tel: (+49) 961-416 04 20 - Fax: (+49) 961-46 04 41

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