



...is all you need



MX T10 D2

MX T12 D2

MX T15 D2

MX T12 D1

MX T15 D1

MX T18 D1

MX T 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 SUBWOOFER FEATURE

Kraft Pulp Cone with Carbon Fibers in Matrix : The cone and its choice of material effect almost everything in regard to the Performance Quality of the sub. While the cone must remain expectionally stable under the stress of high sound pressure levels a well balanced formula of maximum stiffness at minimum weight is the prior target to go ahead. We at EXCURSION have set our focus at this keypoint of and for success, which is the single goal for our MAXTREME Bitches. We have designed a very light kraft pulp sandwich cone technology with carbon fibers 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.

3D EXCURSION Dustcap Design: The impressiv and agressiv looking of our dustcap is only the welcome side effect of a very carefully research of its technolgy. We are confident that we have designed the lightest dustcap at this grade of stiffness on the market. Most this is simply statical caused in our Logo design with the stiffened pair of 3D outer Circles. Of course we took care for the most stable formula of Polypropylen material.

12 Spoke oversized Cast Basket: The symmetrical 12 Spokes Cast Design made our basket to the most successful Subwoofer part in industry. It effects into wastings to design only to be different, if the only goal of SPL performance is affordable to go with a proven Design. We set our focus on those parts which are really in trouble at those awaited strokes for record sound pressure levels and are going with our Rubatek Foam Surrounds and progressiv spiders in various combinations in order to controle the madness

3" Voice Coils: The exclusive heart of our EXCURSION MAXTREME Bitches are our outstanding 8 layered Aluminium 3" Voice Coil. A Formula maximum lightless at maximum load-bearing capacity on reliable aluminium formers is ready to rock the lane.

750 once Motor Structure: The motor structure of a Subwoofer drives the cone. Just like an engine of a car our oversized tripple stacked monster engines allow your MXT Bitch transfer incredible Power. This demanded for this single moment which simply counts to achieve those sound pressure record results get honoured world wide in the hall of competition madness.

We state clearly. MXT is nothing you ever need.
If you feel appointed than it is a MUST TO DO.

Pre-Installation Instructions:

It is recommend 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 recommend. While tuning the system you can find the best sounding length by shortening the port in aprox 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 recommend 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 SHX 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.

10" + 18" TSP DATAS & ENCLOSURE RECOMMENDATION**MXT-10D2**

VC: 2x 1,4 ohm
Test: 2,8 ohms
Fs: 63,357 Hz
Vas: 10,34 Liter
Qms: 2,809
Qes: 0,382
Qts: 0,337
Mms: 94,405
BL™: 16,589
SD: 330,06 sqCM
Cms: 0,066 mm/N
Le: 0,7 mH
No: 0,73%
Splo: 90,2 dB
Xmax: 23 / 45 mm

MXT-18D1

VC: 2x 0,7 ohm
Test: 1,47 ohms
Fs: 45,023 Hz
Vas: 91,701 Liter
Qms: 4,155
Qes: 0,452
Qts: 0,408
Mms: 305,57 g
BL™: 16,760
SD: 1256,64 sqCM
Cms: 0,041 mm/N
Le: 0,9 mH
No: 1,785 %
Splo: 94,5 dB
Xmax: 23 / 45 mm

Ported 10" 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 18" SPL Box :

Internal Volume: 170 Liter
VB nett Volume: 130 Liter
Port Height: 450 mm
Port Wide: 200 mm
Port Length: 300 mm
F3: 51 Hz - FB: 62 Hz

12" TSP DATAS & ENCLOSURE RECOMMENDATION

MXT-12D2

VC: 2x 1,4 ohm
Test: 2,8 ohms
Fs: 49,14 Hz
Vas: 27,08 Liter
Qms: 3,722
Qes: 0,449
Qts: 0,401
Mms: 132,536
BL™: 16,202
SD: 490,87 sqCM
Cms: 0,079 mm/N
Le: 0,87 mH
No: 0,69%
Splo: 90,4 dB
Xmax: 23 / 45 mm

MXT-12D1

VC: 2x 0,7 ohm
Test: 1,52 ohms
Fs: 49,197 Hz
Vas: 18,893 Liter
Qms: 3,006
Qes: 0,305
Qts: 0,277
Mms: 189,533
BL™: 17,086
SD: 490,87 sqCM
Cms: 0,055 mm/N
Le: 0,89 mH
No: 0,71%
Splo: 90,6 dB
Xmax: 23 / 45 mm

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

15" TSP DATAS & ENCLOSURE RECOMMENDATION**MXT-15D2**

VC: 2x 1,4 ohm
Test: 2,94 ohms
Fs: 43,73 Hz
Vas: 63,06 Liter
Qms: 3,077
Qes: 0,475
Qts: 0,412
Mms: 218,157
BL™: 19,258
SD: 855,3 sqCM
Cms: 0,061 mm/N
Le: 0,83 mH
No: 1,071%
Splo: 92,3 dB
Xmax: 23 / 45 mm

MXT-15D1

VC: 2x 0,7 ohm
Test: 1,58 ohms
Fs: 46,802 Hz
Vas: 41,528 Liter
Qms: 4,836
Qes: 0,307
Qts: 0,288
Mms: 289,262
BL™: 20,940
SD: 855,3 sqCM
Cms: 0,04 mm/N
Le: 0,88 mH
No: 1,337%
Splo: 93,3 dB
Xmax: 23 / 45 mm

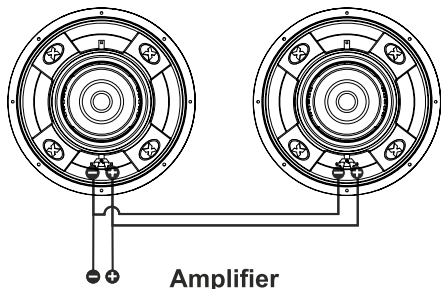
Ported 15" SPL Box :

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

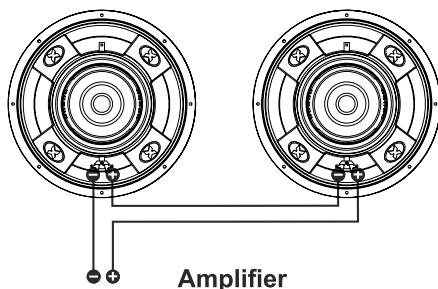
Ported 15" SQPL Box :

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

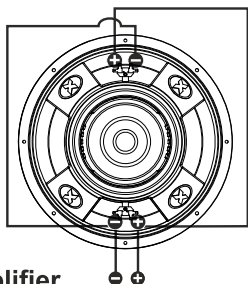
WIRING DIAGRAM



Parallel 2x Single 4 ohm subs = **2 ohm**

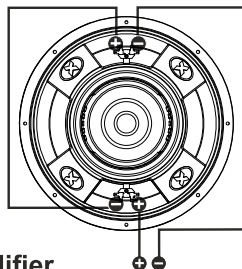


Series 2x Single 4 ohm subs = **8 ohm**



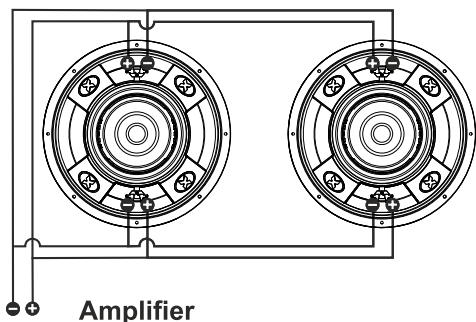
Amplifier

Parallel 1x Dual 4 ohm sub = **2 ohm**



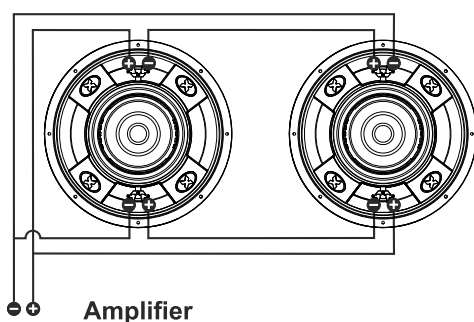
Amplifier

Series 1x Dual 4 ohm sub = **8 ohm**



Amplifier

Parallel-Parallel 2x Dual 4 ohm subs = **1 ohm**



Amplifier

Series-Parallel 2x Dual 4 ohm sub = **4 ohm**

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-10 D2	10"/25cm	2x1.4Ohm	1500 / 5000 W	90.2dB	750 oz.	184mm	239mm	279mm	25,8
MXT-12 D2	12"/30cm	2x1.4Ohm	1500 / 5000 W	90.4dB	750 oz.	203mm	286mm	318mm	26,4
MXT-15 D2	15"/38cm	2x1.4Ohm	1500 / 5000 W	92.3dB	750 oz.	229mm	356mm	394mm	27,8
MXT-12 D1	12"/30cm	2x0.7Ohm	1500 / 5000 W	90.6dB	750 oz.	203mm	286mm	318mm	26,4
MXT-15 D1	15"/38cm	2x0.7Ohm	1500 / 5000 W	93.3dB	750 oz.	229mm	356mm	394mm	27,8
MXT-18 D1	18"/46cm	2x0.7Ohm	1500 / 5000 W	94.5dB	750 oz.	273mm	430mm	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



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EXCURSION - A Division of CHPW

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