
PRODUCT CATALOG 2014
md.lab
Car Audio Systems



md.lab

Car Audio Systems

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History

The MD.Lab is a subsidiary of the South Korean company CNSLink, which is a well–known developer and manufacturer of telecommunications and navigation equipment under the brand name MyDean. The purpose of this commercial project is the development and production of premium car audio systems that can satisfy the most sophisticated consumer. To achieve this goal, the company hired leading experts in car audio.

Ideology

We are not reinventing the wheel, just making it better!

Using the latest developments in the field of Car Audio, our company strives to offer a modern, high–quality product at competitive prices, often surpassing parameters of more famous and expensive brands.

Our competitive advantage stems from continuous communication with the end consumer, professional installers, installation studios and professionals participating in car audio competitions. Together we rejoice in every victory, every successful test in the specialized press! We are constantly learning and we want to be the best!

We hope that you will like MD.Lab products and they will let you enjoy your favorite music for many years!

Regards,
General Manager of MD.Lab
Andrey Vakhtin

We are proud to introduce our new product – sound field processor MD.Lab DSP8





With a wide range of audio processing capabilities, DSP8 will ensure maximum sound quality of any system!
The basic component of the DSP8 is a 32–bit digital signal processor Cirrus Logic CS47048C–DQZ

Time correction and crossover

Time correction allows achieving optimal soundstage due to the fact that the sound from all the speakers reaches your ears at the same time. It is possible to adjust simultaneously up to 8 channels within 0–16 ms in increments of 0.05. Digital low–pass and high–pass filters allow setting the slope characteristics within 0–48 dB per octave in increments of 1 Hz.



Equalizer features

Paragraphic equalizer operates in 31 bands for the front channels, 11 bands for the rear and 11 bands for the subwoofer output. Quality of each band can be changed in a broad range from 0.5 to 9, and the gain within – 18 to 12 dB.

Improvement of the regular system

For those who wish to keep OEM head unit, DSP8 offers a great way to upgrade the system and supplement it with new sources and improved sound quality. With the help of four high level inputs, you can plug in the head unit or other components that are not equipped with a line output. Thus, you do not need Individual converters of high–level output audio signal. Also, autosum function is available – it is useful for systems where the output signal from the amplifier is processed by LP and HP filters

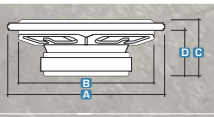
Connect the computer to DSP8 with a USB cable and adjust the sound settings in an attractive and user friendly graphical interface. You can save 10 different settings in the device memory and unlimited number of them on your computer for further selection or use in different cars.

A–series

Hi–End level A–series speakers are the pinnacle of the company's lineup. The speakers are assembled using a cast aluminum frame and, a diffuser is made from a proprietary three–layer material, which is much lighter than traditional paper, but has better rigidity. In the center there is a phase–leveling copper–plated stationary bullet. The magnets cover also has copper coating. Tweeters have 28 mm* soft dome with full corrugation in suspension. Front flange is at the same time a short horn, which provides better interaction between the membrane and the environment in the bottom of the range. To protect domes, the mesh with hexagonal holes of a bigger size is used, which does not obstruct the sound. Crossovers are assembled from top–notch components (capacitors SOLEN, Benink, resistors of Danish company Danotherm), which are hand–selected and have minimal variation of parameters. Crossover architecture allows you to use Bi–Wiring or Bi–Amping connection type.

*The model SP–A17.2 has 25mm dome tweeter

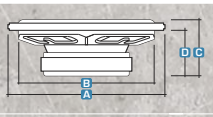
MD.Lab SP–A17.3S



	A	B	C	D
6,5" midbass	166,2	142	77	69
Tweeter	60	51	34	20,5
3" midrange	100	84	75	57



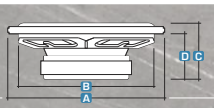
MD.Lab SP–A17.3D



	A	B	C	D
6,5" midbass	166,2	142	77	69
Tweeter	60	51	34	20,5
3" midrange	88.5	73,5	41	35



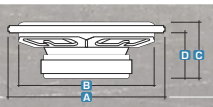
MD.Lab SP–A17.2C



	A	B	C	D
6,5" midbass	166,2	142	77	69
Tweeter	60	51	34	20,5



MD.Lab SP–A17.2



	A	B	C	D
6,5" midbass	166,2	142	77	69
Tweeter	69,5	43	39,5	24



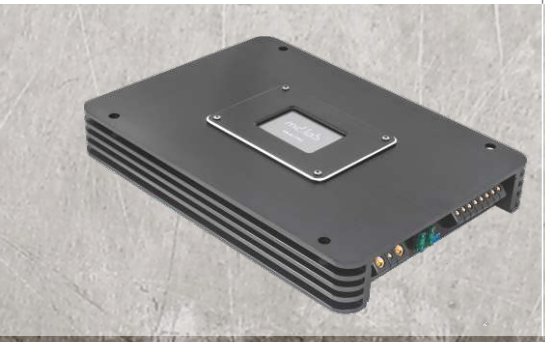
	SP–A17.3S	SP–A17.3D	SP–A17.2C	SP–A17.2
Type:	component	component	component	component
Impedance:	4 Ohm	4 Ohm	4 Ohm	4 Ohm
RMS Power:	90 W	90 W	90 W	90 W
Sensitivity:	91 dB	91 dB	91 dB	91 dB
Frequency Response:	50 Hz – 25 kHz	50 Hz – 25 kHz	50 Hz – 25 kHz	50 Hz – 22 kHz

A-series

Top A-series amplifiers are a typical representative of the Hi-End car audio! Amplifiers are equipped with HP/LP filters that can be disabled turning hardware into pure amplifiers. Undoubtedly, fans of uncompromising sound and sound processors users will be pleased by such an opportunity. To create these amplifiers we used only audiophile components – MOSFET by FAIRCHILD (USA) and Toshiba, chips by JRC (Japan) and capacitors by Nippon ChemiCon. Amplifiers have an extended frequency response (the upper limit of 80 kHz*), which has a positive impact on the sound quality. Due to a great resolution and very careful attitude to the musical material, these amps will be a real pearl in systems of competitive and premium level. Black cases of amplifiers look simple and elegant. For convenient installation all A-series devices are made in the same size.

*Except the amplifier AM-DC1000.1

MD.Lab AM-AC150.4



MD.Lab AM-AC180.2



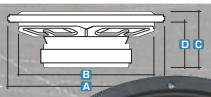
MD.Lab AM-DC1000.1



	AM-AC150.4	AM-AC180.2	AM-DC1000.1
Power 4 Ohm / 2 Ohm:	150 W x 4 / 250 W x 4	180 W x 4 / 330 W x 4	1000 W / 2000 W
Power, bridged:	500 W x 2 / 700 W x 2	600 W x 2 / 900 W x 2	
Input sensitivity:	0,15 – 5 V	0,15 – 5 V	0,25 – 5 V
Filters type:	LP / HP	LP / HP / Subsonic	LP / HP / Subsonic
Slope:	12 dB	12 dB	12 dB
High-level input:	–	+	–
Remote control:	–	+	–
Signal / noise ratio:	> 95 dB	> 95 dB	> 95 dB
Frequency response:	5 Hz – 80 kHz	5 Hz – 80 kHz	10 Hz – 300 kHz
Dimensions:	350 x 250 x 50	350 x 250 x 50	350 x 250 x 50

Subwoofers in this series are designed for uncompromisingly accurate and loud bass! The original sandwich-cone, reinforced suspension, powerful magnet system and a 3-inch dual voice coil yielded clean and deep bass, fast and accurate work in transient processes, high sensitivity and great power.

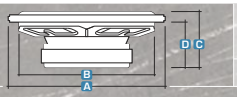
MD.Lab SW-A15



	A	B	C	D
15" sub	400	362	270	235
Power max / rated	1500 W / 800 W			



MD.Lab SW-A12



	A	B	C	D
12" sub	315	283	232	203
Power max / rated	1200 W / 600 W			

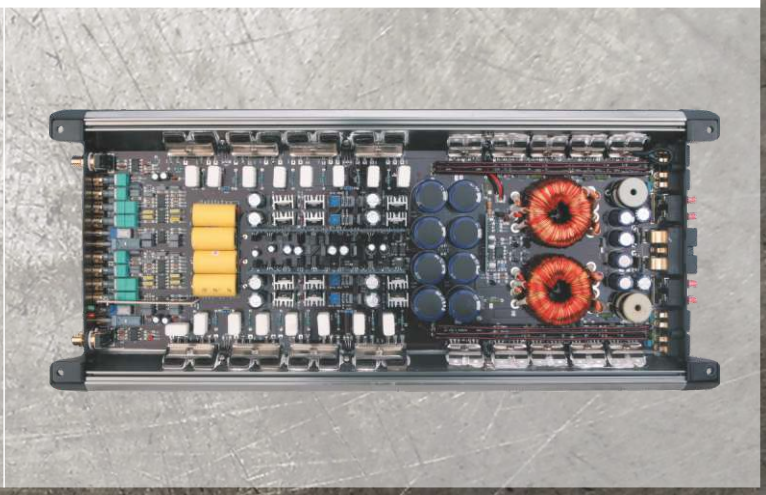


Limited SQ–series

Especially for car audio fans and professionals, MD.Lab company released a limited series of SQ amplifiers. This is the pinnacle of MD.Lab amplifiers for today, in which we have used the best audio components, such as Burr Brown operational amplifiers, matching pairs of output transistors, sound ceramic capacitors and powerful built–in power supply units with large capacity of capacitors and hand–reeled toroidal transformers. The result is car audio amplifiers with the highest possible sound quality.

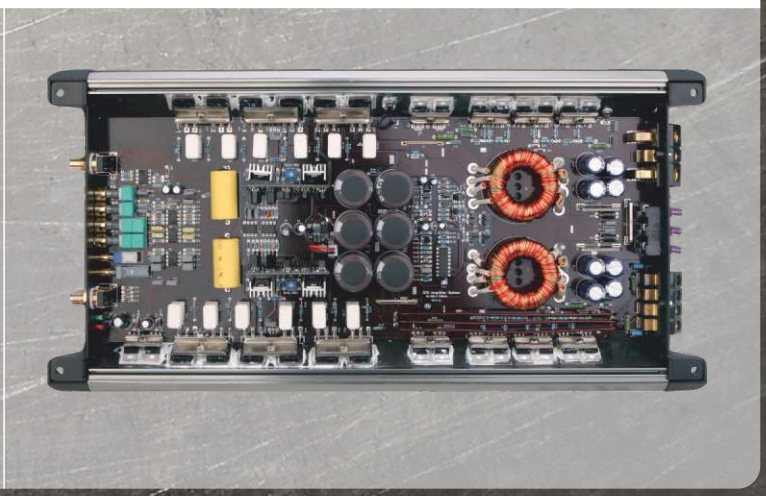
MD.Lab AM–SQ 150.4





MD.Lab AM–SQ 200.2





	AM–SQ 150.4	AM–SQ 200.2
Power 4 Ohm / 2 Ohm:	150 W x 4 / 275 W x 4	200 W x 2 / 300 W x 2
Power, bridged:	400 W x 2	600 W x 1
Input sensitivity:	0,2 – 5 V	0,2 – 5 V
Filters type:	LP / HP / BP	LP / HP
Slope:	12 dB	12 dB
Signal / noise ratio:	> 104 dB	> 104 dB
Frequency response:	10 Hz – 50 kHz	10 Hz – 50 kHz
Dimensions:	470 x 213 x 55	400 x 213 x 55

DSP–series amplifiers

DSP–series amplifiers are devices with an integrated sound field processor that operate in class AB. The DSP processor`s features are unique – filters with variable slope of HP/LP/BP and type selection (Bessel, Butterworth, Linkwitz–Riley), time–corrector, 1/3 octave (31–band) paragraphic EQ for each channel. The sound processor can be set up by PC or a special module MD.Lab AM–CONT. Users can save five different settings, which are memorized both by the amplifier and the PC. In other words, the saved settings can be replicated on an unlimited number of amplifiers. In the first place, this function can be useful for car dealers, as the features of the amplifiers of this series enhance the sound quality of even OEM speakers! Due to its compact size, this amplifier can be installed in almost any vehicle.

MD.Lab AM–100.4DSP



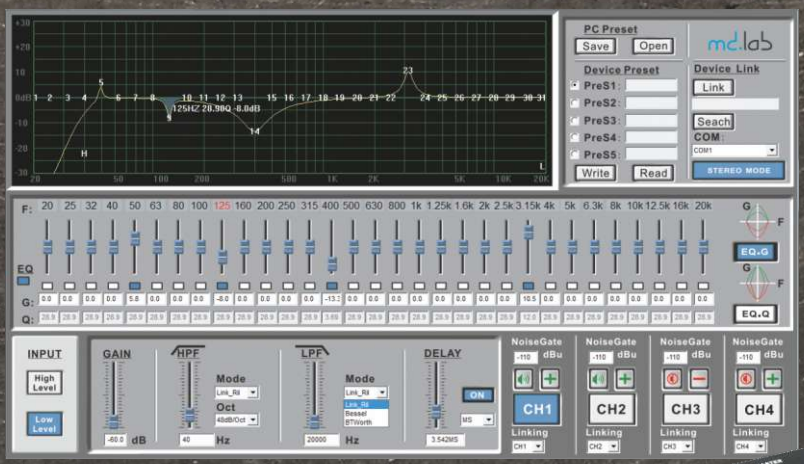
MD.Lab AM–80.4DSP



MD.Lab AM–1000.1DSP



	AM–100.4DSP	AM–80.4DSP	AM–1000.1DSP
Power 4 Ohm / 2 Ohm:	100 W x 4 / 150 W x 4	80 W x 4 / 120 W x 4	800 W (2 Ohm) / 1000 W (1 Ohm)
Power, bridged:	300 W x 2	240 W x 2	–
Input sensitivity:	0,2 – 6 V	0,2 – 6 V	0,2 – 6 V
Filters type:	LP / HP / BP	LP / HP / BP	LP / HP / BP
Slope:	12 – 48 dB	12 – 48 dB	12 – 48 dB
High–level input:	–	–	–
Remote control:	optional	optional	+
Signal / noise ratio:	> 84 dB	> 84 dB	> 84 dB
Frequency response:	10 Hz – 22 kHz	10 Hz – 22 kHz	10 Hz – 22 kHz
Dimensions:	250 x 210 x 48	230 x 210 x 48	270 x 210 x 48



Configuration module AM–CONT is used to set up DSP car amplifiers when there is no PC at hand. Performed in an elegant black case, AM–CONT, due to its display and function keys, can replace the computer at the stage of the sound setup.

AM–CONT

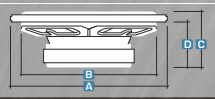


B-series

B-series speakers were designed taking into account opinions of numerous consumers, who place high demands on sound quality, but are not willing to pay for the top-end A series. Using the senior line technology, we tried to considerably cut the cost of components. In addition, we offer a 13-cm version that can operate inside a very compact box – it is primarily useful for powerful audio systems for motorcycles.

MD.Lab SP-B17.2

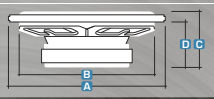




	A	B	C	D
6" midbass	166,2	142	75	68
Tweeter	60	51	28	18

MD.Lab SP-B13.2





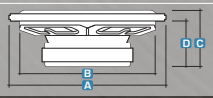
	A	B	C	D
6" midbass	130	122	67	59
Tweeter	60	51	28	18

	SP-B17.2	SP-B13.2
Type:	component	component
Impedance:	4 Ohm	4 Ohm
RMS Power:	90 W	80 W
Sensitivity:	91 dB	90 dB
Frequency Response:	50 Hz – 25 kHz	60 Hz – 25 kHz

B-series subwoofers are speakers with exceptional features! They successfully operate in classical acoustic configurations , such as closed box and vented enclosure box, as well as in free-air or baffle configurations. These subwoofers were used in all championship cars of MD.Lab Team in the 2013/2014 season. Simplicity of design, exceptional sound quality and unpretentiousness determined the choice of many consumers!

MD.Lab SW-B12F

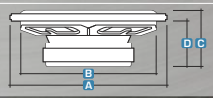




	A	B	C	D
12" sub	310	286	171	159
Power max/nom	900 W / 300 W			

MD.Lab SW-B10F

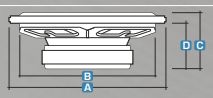




	A	B	C	D
10" sub	256	230	156	141
Power max/nom	750 W / 250 W			

MD.Lab SW-B12E

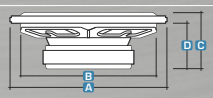




	A	B	C	D
12" sub	310	279	150	138
Power max/nom	600 W / 200 W			

MD.Lab SW-B10E





	A	B	C	D
10" sub	258	229	135	123
Power max/nom	450 W / 150 W			

B–series

A distinctive feature of MD–series amplifiers is impressive power, despite its modest size. It is achieved by using D–class circuitry. Any MD amplifier does not exceed the size of a sheet of A4 paper, but these "kids" produce more nominal power than many of their larger competitors. Apart from standard HP/LP filters, five–channel amplifiers are also characterized by a band–pass mode of operation. Thus, the per–channel amplification of the dual band front and the subwoofer is not a problem anymore and does not require additional passive crossovers that reduce amplifiers efficiency.

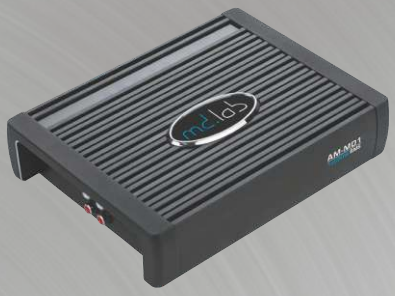
MD.Lab AM–MD5



MD.Lab AM–MD4



MD.Lab AM–MD1



	AM–MD5	AM–MD4	AM–MD1
Power 4 Ohm / 2 Ohm / 1 Ohm:	80 W x 4 + 200 W x 1 / 160 W x 4 + 350 W x 1	95 W x 4 / 190 W x 4	250 W / 400 W / 600 W
Power, bridged:	250 W x 2	380 W x 2	–
Input sensitivity:	0,2 – 6 V	0,2 – 6 V	0,2 – 6 V
Filters type:	LP / HP / BP	LP / HP	LP / HP
Slope:	12 dB	12 dB	12 dB
Remote control:	+	–	+
Signal / noise ratio:	> 100 dB	> 100 dB	> 95 dB
Frequency response:	10 Hz – 50 kHz	10 Hz – 50 kHz	10 Hz – 250 Hz
Dimensions:	310 x 170 x 50	224 x 170 x 50	220 x 170 x 50

Compact power amplifiers of MB–series have modest dimensions (268x136x45 mm), but possess a very solid output index: 4 channels with 75 watts at 4 Ohms, with a monoblock that can deliver 500 watts at 2 Ohm – and all this in AB music class! A feature that deserves close attention and respect. No doubt, there is something to appreciate here: amplifiers feature high–level inputs for integration into OEM car audio systems, tunable LP/HP filters and ports for bass remote control. All amplifiers of MB–series have cases of the same size, which allow installation of amplifiers on top of each other.

MD.Lab AM–MB4



MD.Lab AM–MB1



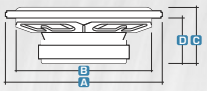
	AM–MB4	AM–MB1
Power 4 Ohm / 2 Ohm:	75 W x 4 / 120 W x 4	300 W / 500 W
Power, bridged:	175 W x 2	
Input sensitivity:	0,2 – 6 V	0,2 – 6 V
Filters type:	LP / Full / HP / BP	LP / Full / HP
Slope:	12 dB	12 dB
High–level input:	+	+
Remote control:	optional	+
Signal / noise ratio:	> 100 dB	> 100 dB
Frequency response:	10 Hz – 50 kHz	10 Hz – 50 kHz
Dimensions:	268 x 136 x 45	268 x 136 x 45

Real bestseller!

Middle–priced speakers. Traditionally, MD.Lab used solutions applicable to the top series: copper–plated phase leveling bullet in mid–basses, acoustically transparent grille with large hexagonal holes. A very interesting solution has been applied to the woofers design: use of molded plastic in supporting basket. This eliminates harmful resonances in the dynamic head and can significantly reduce the weight of the speaker. The base of midbass cone is cellulose with «Foamed Glass» coating manufactured using a licensed technology. Tweeters have 25 mm silk dome. From this year onwards, C–series will be extended due to a 3–way component system. Midrange speaker was developed on the basis of legendary SP–M3D.

MD.Lab SP–C17.2

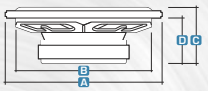




	A	B	C	D
6" midbass	166	141	75	67,5
Tweeter	50,5	46,6	31,5	22

MD.Lab SP–C172

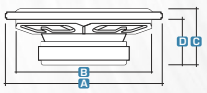




	A	B	C	D
6" coaxial	166	141	75	67,5

MD.Lab SP–C17.3





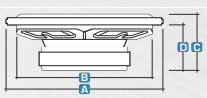
	A	B	C	D
6" midbass	166	141	75	67,5
3" midrange	88,5	73,5	41	35
Tweeter	50,5	46,6	31,5	22

	SP–C17.2	SP–C172	SP–C17.3
Type:	component	coaxial	component
Impedance:	4 Ohm	4 Ohm	4 Ohm
RMS Power:	90 W	70 W	80 W
Sensitivity:	90 dB	90 dB	90 dB
Frequency Response:	50 Hz – 22 kHz	55 Hz – 22 kHz	60 Hz – 22 kHz

To create C–series subwoofers, we used traditional technology, but we also decided to please the fans of car audio: injection–molded basket with milled edges, metal protection of the magnetic system, splendid look and traditionally high quality sound!

MD.Lab SW–C12

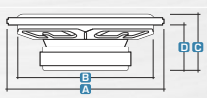




	A	B	C	D
12" sub	316	284	171	150
Power max/nom	700 W / 350 W			

MD.Lab SW–C10





	A	B	C	D
10" sub	323	278	144	126
Power max/nom	600 W / 300 W			

D–series

The new D–series has been designed to meet the latest market requirements. High power, very high sensitivity, a large amount of bass and bright youth sonic character! We recommend using these speakers both with external amplifier and with built–in amplifier in the head unit.

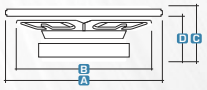
MD.Lab SP–D17.2



	A	B	C	D
6“ midbass	166,5	144	64	58
Tweeter	51	45,5	25	16

MD.Lab SP–D172

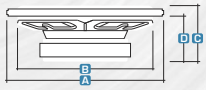




	A	B	C	D
6“ coaxial	166	145	73	67

MD.Lab SP–D13.2

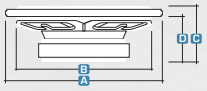




	A	B	C	D
5“ midbass	153,6	114,5	59,5	53
Tweeter	51	45,5	25	16

MD.Lab SP–D132

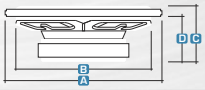




	A	B	C	D
5“ coaxial	155	117,5	71	65

MD.Lab SP–D693





	A	B	C	D
6 x 9“ coaxial	242,5 x 172	215 x 148	71	65

	SP–D17.2	SP–D13.2	SP–D693	SP–D172	SP–D132
Type:	component	component	coaxial	coaxial	coaxial
Impedance:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
RMS Power:	80 W	70 W	90 W	80 W	70 W
Sensitivity:	92 dB	90 dB	93 dB	92 dB	90 dB
Frequency Response:	60 Hz – 22 kHz	70 Hz – 22 kHz	50 Hz – 20 kHz	60 Hz – 20 kHz	70 Hz – 20 kHz

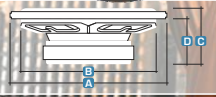
E-series

E-series speakers have a high usable sensitivity, which makes it a great alternative to OEM speakers and allows using it without an external amplifier. A great opportunity to enhance the sound of the standard audio system simply by changing speakers.

Despite the budget price, all the speakers in this series are equipped with cones made of cellulose with water-repellent imbibition and silk dome tweeters.

MD.Lab SP-E17.2

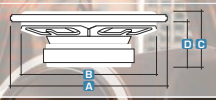




	A	B	C	D
6" midbass	166,5	144	61	55
Tweeter	51	45,5	25	16

MD.Lab SP-E13.2





	A	B	C	D
5" midbass	153,6	114,5	56,5	50
Tweeter	51	45,5	25	16

MD.Lab SP-E693



	A	B	C	D
6 x 9" coaxial	242,5 x 172	215 x 148	90	80

MD.Lab SP-E172



	A	B	C	D
6" coaxial	166	145	70	64

MD.Lab SP-E132



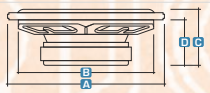
	A	B	C	D
5" coaxial	155	117,5	68	62

	SP-E17.2	SP-E13.2	SP-E693	SP-E172	SP-E132
Type:	component	component	coaxial	coaxial	coaxial
Impedance:	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
RMS Power:	70 W	60 W	70 W	60 W	50 W
Sensitivity:	88 dB	87 dB	89 dB	88 dB	87 dB
Frequency Response:	60 Hz – 22 kHz	70 Hz – 22 kHz	50 Hz – 20 kHz	60 Hz – 20 kHz	70 Hz – 20 kHz

Modern cars impose a number of restrictions on the placement of subwoofers, so MD.Lab developed a couple of 10 and 12-inch subwoofers with plane baskets. Their mounting depth is only 78 and 83mm! These subwoofers can be successfully used not only in the traditional location, but, as an example, behind the back seats of pickup trucks.

MD.Lab SW-ES12

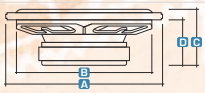




	A	B	C	D
15" sub	317	283	102	83
Power max / nom			400 W / 200 W	

MD.Lab SW-ES10





	A	B	C	D
15" sub	260	230	90	78
Power max / nom			300 W/ 150 W	

E-series

Entry level amplifiers of this series can become a major component of the whole audio system, even in high-end sets! Luxury case with "piano black" coating, high-power supply, excellent equipment (from high level inputs to remote bass control*) can achieve excellent results! Cozy, comfortable sound of the musical AB Class circuitry.

* Except AM-EL4.80

MD.Lab AM-EL4.110



MD.Lab AM-EL4.80



MD.Lab AM-EL2.110



	AM-EL4.110	AM-EL4.80	AM-EL2.110
Power 4 Ohm / 2 Ohm:	85 W x 4 / 110 W x 4	60 W x 4 / 80 W x 4	75 W x 2 / 110 W x 2
Power, bridged:	250 W x 2	180 W x 2	250 W
Input sensitivity:	0,2 – 6 V	0,2 – 6 V	0,2 – 6 V
Filters type:	LP / HP	LP / HP	LP / HP
Slope:	12 dB	12 dB	12 dB
High-level input:	+	–	+
Remote control:	+	–	+
Signal / noise ratio:	> 98 dB	> 98 dB	> 98 dB
Frequency response:	10 Hz – 50 kHz	10 Hz – 50 kHz	10 Hz– 50 kHz
Dimensions:	360/404 x 223 x 50	320/364 x 223 x 50	250/294 x 223 x 50

Subwoofer boxes

Perhaps the easiest way to improve the sound of the car audio system is to install a ready kit subwoofer+case. For this purpose we propose to use our subwoofers with built–in power amplifiers. Just decide on a size depending on the trunk geometry of your car.

MD.Lab SW–10AM

Active subwoofer box



Dimensions:	551 x 435 x 320
Size:	10"
Impedance:	4 Ohm
Power (RMS):	150 W
Power, max:	300 W
Input:	High / Low

MD.Lab SW–12AM

Active subwoofer box



Dimensions:	390 x 315 x 345
Size:	12"
Impedance:	4 Ohm
Power (RMS):	200 W
Power, max:	400 W
Input:	High / Low

MD.Lab SW–12SB



Subwoofer box

If you already have an amplifier, then pay attention to the model SW–12SB, which has obvious advantages – a flat box, on which you can put your suitcase or purchases from a supermarket! Speaker will always stay protected!

Dimensions:	630 x 200 x 350
Size:	12"
Impedance:	4 Ohm
Power (RMS):	200 W
Power, max:	400 W

MD.Lab AM–DCI–200.1



If you already have a subwoofer box, but you have not yet purchased an amplifier for it, we strongly recommend our built–in model AM–DCI–200.1. This is a simple and elegant solution – just cut a mounting hole in the subwoofer's case and install the amplifier board! Despite its very modest size, this device has all the necessary settings: from bass remote control to smooth phase–leveling. If there are no RCA outputs in your head unit, you can use high level inputs.

Power 4 Ohm / 2 Ohm:	200 W / 330 W
Input sensitivity:	0,15 – 5 V
Filters type:	LP
Slope:	12 dB
High–level input:	+
Remote control:	+
Signal / noise ratio:	> 85 dB
Frequency response:	10 Hz – 300 Hz
Dimensions:	170 x 130 x 75

J–series

J–series products are designed for those who make their first steps into the world of car audio. SW–J12KIT set is all–in–one: case subwoofer, bass amp and a set of wires to connect. Amplifier AM–J4.100 will significantly improve the sound quality of front and rear speakers.

MD.Lab SW–J12KIT



MD.Lab AM–J4.100



	SW–J12KIT
Sub dimensions:	445 x 160 / 240 x 365
Amp dimensions	220 x 210 x 45
dimension:	12"
Impedance:	4 Ohm
Power (RMS):	200 W
Power, max:	400 W

	AM–J4.100
Power 4 Ohm / 2 Ohm:	50 W x 4 / 80 W x 4
Power, bridged:	120 W x 2
Input sensitivity:	0,2 – 5 V
Filters type:	LP / HP
Slope:	12 dB
Signal / noise ratio:	> 85 dB
Frequency response:	20 Hz – 20 kHz
Dimensions:	300 x 210 x 45

Accessories

MD.Lab SQ5 and SQ6 audio converters are designed to convert a high–level car audio output signal into a low–level signal. Transducers have three pairs of line outputs: Front, Rear and Sub. An important feature of these devices is automatic switching when a high level signal appears at the input and amplifiers switching control. This feature is useful for vehicles equipped with CAN bus. In this case you do not have to bear additional costs to acquire a CAN adapter. We also propose to use these devices in cars, where it is not possible to use RCA interconnects due to strong interference from the onboard electronics. Devices are assembled using chips of JRC (Japan), which allows reaching a very high quality sound, often surpassing the signal received from the RCA output!

MD.Lab SQ6



MD.Lab SQ5



MD.Lab CR–MB17



MD.Lab CR–M3D



MD.Lab GR–6.5



Components

SP–MB20

For loud music fans and midbass with impact punch we offer 8" woofers SP–B20 with 130W power. Assembled using the A–series platform, these speakers will fit well into the highest level system!



Frequency Response: 40 Hz – 4 kHz

SP–MB17

Woofer SP–MB17 is included in our top A–series kits.



Frequency Response: 50 Hz – 4 kHz

SP–M3D

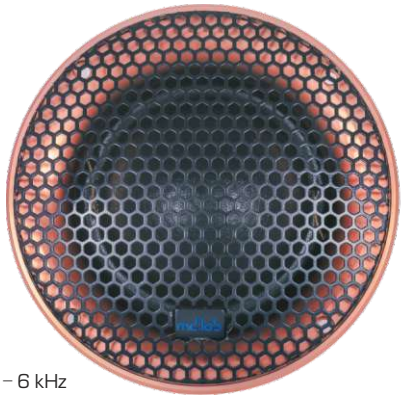
Midrange SP–M3D – is a unique product with unsurpassed characteristics and sound! They flawlessly pass numerous tests organized by our customers, compared with more famous and expensive brands!



Frequency Response: 200 Hz – 4 kHz

SP–M3S

SP–M3S – midrange with a silk dome. Are perhaps the best solution for fans of jazz, classical and vocal music. Have a cozy and natural sound. No wonder a high–profile edition – "Auto Sound" – honoured them with a reward!



Frequency Response: 700 Hz – 6 kHz

SP–T1.28

SP–T1.28 tweeters have a 28 mm silk dome, low resonant frequency and a wonderful, spacious sound! Metal shell of champagne color demonstrates elite A–series accessory.



Frequency Response: 2,5 kHz – 25 kHz

SP–T1.28B

High–frequency speaker SP–T1.28B are less expensive performance of SP–T1.28.



Frequency Response: 2,5 kHz – 25 kHz

SP–T1.25C

SP–T1.25C tweeters have a 25 mm silk dome. Such dynamics are used in C–series component systems.



Frequency Response: 3 kHz – 22 kHz

SP–T1.20

SP–T1.20 tweeters are a part of the E–series component systems and are often successfully used to upgrade onboard systems of many modern cars.



Frequency Response: 3,5 kHz – 22 kHz

Cables and accessories

It is our another little pride! We guarantee that all our cable products meets the highest standards of electrical safety, and caliber of conductors is 100% of the declared! Original insulation has a very good performance in the bending, which is extremely important for installation.

Copper power cables

MDC-PCC-0BL/G
MDC-PCC-2BL/G
MDC-PCC-4BL/G
MDC-PCC-8BL/G



For trouble-free and long-term performance of your audio system, we propose to use our power cables , made with OFC technology (OFC high purity) and TOFC (tinned copper).

Copper-plated aluminium cables

MDC-PCA-4R
MDC-PCA-4B



More budget version of the power wiring, produced with CCI technology (copper-plated aluminum conductor).

Speaker cables

MDC-SP14
MDC-SP16
MDC-SP18



MD.Lab acoustic cables are made on technology TOFC and have a neutral sound character.

Interconnect cables

MDC-RCA-C1
MDC-RCA-C5



Interconnect cables are made in the MICRO Cable configuration based on copper wire using a double screening. Placing the components in modern cars is very difficult sometimes. We have taken it into account and we use very compact RCA connectors in our interconnect cables.

Cables and accessories

If your company operates in a field different from installation and you just need to connect the audio equipment in your car, we recommend that you pay attention to the MD.Lab kits of cable products.
To ensure high–quality connectivity of the 4–channel amplifier, our recommendation is a KIT–44A.
All conductors in this set are made of high purity copper.

MDC–KIT–44A



OFC power cable 4 Ga «plus» – 5 m
OFC power cable 4 Ga «minus» – 2 m
OFC speaker cable 12 Ga – 10 m
OFC interconnect cable 2RCA–2RCA – 2 x 5 m
Remote wire – 5 m
ANL 150 A fuse with holder
Wiring accessories.

MDC–KIT–4A



OFC power cable 4 Ga «plus» – 5 m
OFC power cable 4 Ga «minus» – 2 m
OFC speaker cable 12 Ga – 10 m
OFC interconnect cable 2RCA–2RCA – 5 m
Remote wire – 5 m
ANL 100 A fuse with holder
Wiring accessories.

MDC–KIT–8A



OFC power cable 8 Ga «plus» – 5 m
OFC power cable 8 Ga «minus» – 2 m
OFC dpeaker cable 12 Ga – 10 m
OFC interconnect cable 2RCA–2RCA – 5 m
Remote wire – 5 m
AGU 60 A fuse with holder
Wiring accessories.

FUSE HOLDER

MDC–FH1A



ANL fuse holder

MDC–FH1M



Mini–ANL fuse holder

MDC–FH1



AGU fuse holder

POWER DISTRIBUTOR

MDC–FH4.0



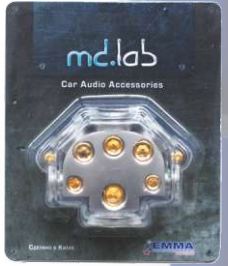
Power distributor with AGU fuse holder.
Input: 1 x 2 Ga / 2 x 4 Ga
Output: 4 x 6 Ga / 8 Ga

MDC–FH2.0



Power distributor with AGU fuse holder.
Input: 1 x 2 Ga / 2 x 4 Ga
Output: 2 x 6 Ga/8 Ga

MDC–PDB



Power distributor.
Input: 1 x 0 Ga
Output: 1 x 2 Ga / 2 x 4 Ga / 2 x 8 Ga

Cables and accessories

CIRCUIT BREAKER

MDC–PCB100
MDC–PCB150
MDC–PCB200
MDC–PCB250
MDC–PCB300



CAPACITOR

PC–E1.0

Car capacitor
MD.Lab PC–E1.0
with integrated
voltmeter.
Rated capacitance – 1 Farad.



CONNECTORS

MDC–BTP

Battery terminal (+)
for cable connections.
1 x 0 Ga
1 x 4 Ga
2 x 8 Ga



MDC–BTN

Battery terminal (–)
for cable connections.
1 x 0 Ga
1 x 4 Ga
2 x 8 Ga



MDC–RT0

Ring terminal
for 0 Ga cable,
hole diameter –
10 mm.



MDC–RT4

Ring terminal
for 4 Ga Cable,
hole diameter –
8 mm.



MDC–RT8

Ring terminal
for 8 Ga Cable,
hole diameter –
8 mm.



FUSES

ANL



ANL fuses, nominal:
100/150/200/250/300 A,
nickel plated, 2 pcs in set.

Mini–ANL



Mini–ANL fuses, nominal:
2,5/5/10/20/30/40/50/60/80/100/
150 A, nickel plated, 4 pcs in set.

AGU



AGU fuses, nominal:
30/40/50/60/80/100 A,
nickel plated, 4 pcs in set.

Specification of subwoofers

	SW-A15	SW-A12	SW-B12F	SW-B12E	SW-B10F	SW-B10E	SW-C12	SW-C10	SW-S12	SW-ES10	SW-ES12
Size	15"	12"	12"	12"	10"	10"	12"	10"	12"	10"	12"
Voice coil resistance, Ohms	2x4	2x4	4	4	4	4	4	4	4	4	4
Power, (RMS), W	800	600	300	200	250	150	350	300	250	150	200
Power, (MAX), W	1500	1200	900	600	750	450	700	600	500	300	400
Re, Ohms	1,8	1,8	3,4	3,6	3,8	3,6	3,8	3,8	3,8	3,8	3,8
Cms, m/n	109,956	106,382	0,09	0,09	0,08	0,22	227,309	256,625	125,309	291,798	226,110
SPL, dB	93	90	84,7	87,4	84,5	85,6	90	89	90	89	90
Mms, gram	268,407	242,740	150	150	122	106,9	176,231	72,553	130,191	77,957	121,278
Qms	3,171	2,129	7,2	6,54	5,33	3,92	1,565	4,017	2,468	3,215	2,017
Qts	0,597	0,455	1,29	0,65	0,98	0,52	0,203	0,355	0,43	0,645	0,646
Bl	10,998	12,197	9,3	14,5	11,3	11,4	21,32	12,804	15,327	8,772	9,625
Fs, Hz	29,296	31,320	42,8	43,6	52,1	32,8	25,146	36,885	39,404	33,370	30,393
Vas, liters	100,992	49,521	38,2	31,6	15,4	40,7	77,775	39,699	58,333	45,141	77,366
Qes	0,735	0,578	1,57	0,73	1,19	0,61	0,233	0,39	0,521	0,807	0,95
Recommended volume (sealed box),liters	38-49	24-27	28	28	19-26	от 15	23	15-21	28-30	20-27	30
Recommended volume (vented box),liters	63	38	33	31	21	25	39	27	40	28	37
Port Length, mm	580	480	310	330	200	250	520	200	260	490	360
Port Diameter, mm	2x103	103	103	103	70	70	103	70	103	103	103
Tuning Frequency, Hz	38	37	47	48	47	40	34	43	46	41	40

TEAM md.lab

Rapid climb of the young MD. Lab TEAM to the “winners podiums” of EMMA competitions became quite a surprise for car audio fans in Russia.

During the 2013 season the team out of 4 cars won 26 cups for the first place, 11 cups for the second one and 3 for the third one!

At the final of the 16th car audio Championship organized by EMMA–Russia, our team took 5 champion awards in various classes and one vice–champion of Russia!

EMMA
european mobile media association



Real spice of all the events organized by EMMA – Russia became a democar "One and a Half Giraffe" provided by LR Garage and assembled from MD.Lab components.

It is also worth mentioning that the system included regular C–series speakers and all of them flawlessly worked at maximum power for many hours!

md.lab

Car Audio Systems

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Product images are provided for reference and may differ from actual product appearance. Manufacturer reserves the right to change the appearance, specifications and component parts without prior notice.