



mobile audio systems





■ ■ ■ a/d/s/



introduction

For 30 years, **a/d/s/**® has pursued a single goal: producing audio components that attain the highest possible level of performance. Over that remarkable span of time, hundreds of unique, innovative products have been brought to market bearing the **a/d/s/** brand... products that combined timeless industrial design with consistent sonic purity. They include truly noteworthy models such as the 200-series mini loudspeaker, the PowerPlate™ P100 amplifier with its revolutionary switching power supply, the definitive 320i component speaker system, and the px-series component speakers and digital amplifier that redefined the limits of high-definition mobile audio. These, and the many other fine **a/d/s/** products that have graced our catalogs and our dealers' showrooms since 1974 have all had an immeasurable impact on the mobile audio industry. Whether winning awards, defining new limits of perfection in sonic achievement, or by influencing generations of designers, **a/d/s/** has attained legendary status.

But legends based solely on achievements of the past are doomed to fade over time and pass from our consciousness. So, it is with great pride that we announce the introduction of a new generation of **a/d/s/** mobile component speaker systems. Every part and assembly designed from scratch, these exceptional speakers are destined to become reference models for a whole new generation of mobile audio enthusiasts, while staying true to the legacy of acoustic performance that has enchanted **a/d/s/** owners in years past. Whether you're a longtime **a/d/s/** dealer, dedicated mobile audiophile, or just looking for high-value, timeless speaker systems and subwoofers that sound even better than they look, you're in luck: **a/d/s/** has never sounded better. Stick around, the next 30 years are going to be even more legendary...



3-series component systems

The all-new 3-series components use only the finest materials and individual components to achieve stunning realism and accuracy. Spun aluminum cones, synthetic rubber surrounds, and an all-new tweeter design ensure maximum clarity of signal while maintaining that elusive quality of smooth, pleasing sound that has become an *a/d/s/* trademark. The attention to detail is nowhere more evident than in the audiophile-grade crossovers, with exceptionally configurable circuit designs and high end components set into cast aluminum housings. Whether you're simply looking for the finest component speakers available to upgrade the audio system of your vehicle, or are a serious sound quality competitor looking for your ticket to the winner's circle, *a/d/s/* 3-series systems deliver.

346cs

The flagship of the 2004 *a/d/s/* component speaker line, the 346cs features a new, stiffer injection-molded basket design with integrated AngleLock™ terminals. This 6.5" component system has been designed to fit equally well in luxury performance cars or high end sport utility vehicles while producing an exceptionally flat response curve over the widest possible bandwidth. The extremely flexible crossover design ensures correct in-vehicle performance regardless of system architecture, perfectly meshing the responses of the aluminum coned drivers and polymer-damped silk dome tweeters.

345cs

For achieving the highest possible acoustic performance in more space-limited applications, the all-new 345cs system features a 100% Euro-compatible (130mm) frame and a compact neodymium tweeter that offers vastly improved off-axis response and two different low-profile mounting options. Using the same materials and audiophile crossover design as the 346cs system, the 345cs proudly continues the legacy of world-class 5.25" component speaker systems started over 20 years ago by the legendary *a/d/s/* 320i.



2-series component systems

a/d/s! 2-series components have for many years been the perfect solution to everyday, high fidelity mobile audio applications. The all-new 2-series design for 2004 features the same incredibly smooth tweeters as the top of the line 3-series. Combined with drivers featuring mineral enhanced copolymer cones and compact external crossovers, these speakers deliver exceptionally smooth, accurate response in a wide variety of applications. Shipped as component systems with low profile flush and surface mount housings, they can also be converted to an even more compact point source design by mounting the tweeter into the main driver housing.



246ix

This versatile 6.5" component speaker system combines the traditional *a/d/s!* sonic virtues with the flexibility of three different mounting configurations. The compact, high performance neodymium tweeters can be flush or surface mounted, or assembled into the mid drivers to create an integrally mounted coaxial solution. Either way, the compact but full-featured crossovers ensure that a perfect mesh between driver and tweeter is achieved.



246ix
configured
as coaxial



245ix

Like its big brother, the 5.25" 245ix component system can be used in conventional 2-way applications with the tweeter mounted separately, or converted to create a high-performance coaxial solution. Its light, rigid copolymer cone assures smooth accurate frequency response even at relatively high output levels. The exceptional off-axis response of the 25mm tweeter allows it to be equally effective in either separate or integrated mounting applications.



245ix
configured
as coaxial

3-series subwoofers

With new model designations for 2004, the 3-series continues a legacy of exceptional sound quality performance created by the celebrated RS and more recent R-series subwoofers. Like the 3-series component speakers, these extremely linear high performance subwoofers utilize aluminum cones for ultimate rigidity in demanding applications. Capable of handling 500 watts continuous power, they feature die-cast aluminum frames supporting double-stacked motor assemblies, resulting in designs that work effectively in small sealed enclosures. Gold-plated spring-loaded terminals accept large gauge cable for superior signal transfer.



310rs/4

Like its big brother, the 310rs/4 features dual 4 ohm voice coils. Its low Q design and 500 watt power handling combined with aluminum cone and linear suspension components make it a great choice for smooth extended bass response in space-limited applications.

312rs/4

The 312rs/4 features dual 2.5 inch diameter 4 ohm voice coils on a Kapton former. Optimized to deliver smooth extended low frequency response in small sealed enclosures as small as 0.75 cu ft, it is the perfect complement to the new 3-series component speakers in an audiophile-grade sound quality application.



2-series subwoofers

Replacing the respected A-series subwoofers, *a/d/s/* 2-series subwoofers borrow many of the same design cues from the more powerful 3-series subs, including die-cast frames and medium wide nitrile butyl rubber surrounds. With smaller single stack motors and copolymer cones, they are able to deliver accurate, dynamic low frequency material while driven at up to 250 watts continuous power. Their single 4 ohm design is optimized for use in small sealed, vented, or bandpass enclosure types.



212a/4

This 12" single voice coil driver delivers stunning accuracy and extended low frequency response in systems ranging up to 250 watts continuous (bass) power. Featuring low-resonance mineral-filled copolymer cones, it is the perfect match for the new 2-series components, or as a supplement to high performance OEM systems.



210a/4

With the same tough, rigid copolymer cone and robust die-cast frame as its larger relatives, the 210a/4 is equally capable of serving as the foundation for a premium sound system. Its specifications include a durable wrap gasket for front or rear mount applications, and gold-plated spring-loaded terminals for reliable signal transfer.

3-series component speaker systems

model	cone material	power handling	woofer diameter	woofer cutout	woofer depth	nominal impedance (Z)	frequency response	tweeter dia./type	tweeter cutout	tweeter depth	Fs	Qts	Vas	Xmax
346cs	aluminum	20-125 watts	6.5" 165mm	5" 125mm	2.44" 63mm	4 ohm (4)	70Hz - 20kHz	25mm polymer-damped silk	2" 51mm	.75" 19mm	65.4 Hz	0.68	0.28 cu ft	3.5mm
345cs	aluminum	20-100 watts	5.25" 130mm	4.6" 118mm	2.38" 60mm	4 ohm (4)	70Hz - 20kHz	25mm polymer-damped silk	2" 51mm	.75" 19mm	73.0 Hz	0.53	0.18 cu ft	2.5mm

2-series component speaker systems

model	cone material	power handling	woofer diameter	woofer cutout	woofer depth	nominal impedance (Z)	frequency response	tweeter dia./type	tweeter cutout	tweeter depth	Fs	Qts	Vas	Xmax
246ix	copolymer	20-125 watts	6.5" 165mm	5" 125mm	2.44" 63mm	4 ohm (4)	70Hz - 20kHz	25mm polymer-damped silk	2" 51mm	.75" 19mm	80 Hz	0.73	0.20 cu ft	3.0mm
245ix	copolymer	20-80 watts	5.25" 130mm	4.6" 118mm	2.38" 60mm	4 ohm (4)	70Hz - 20kHz	25mm polymer-damped silk	2" 51mm	.75" 19mm	73 Hz	0.56	0.22 cu ft	2.5mm

3-series subwoofers

model	cone material	power handling	woofer diameter	woofer cutout	woofer depth	nominal impedance (Z)	frequency response	Sd	Qes	Qms	Re (ohm)	Fs	Qts	Vas	Xmax
312rs/4	aluminum	500W/1000W peak	12" 305mm	11.25" 286mm	5.5" 140mm	dual 4 ohm (8)	30Hz - 2500Hz	456 sq. cm.	0.65	5.43	6.90	30.16	0.58	1.4 cu ft	15.8mm
310rs/4	aluminum	500W/1000W peak	10" 254mm	9.25" 235mm	5.25" 133mm	dual 4 ohm (8)	40Hz - 2500Hz	326 sq. cm.	0.73	4.97	6.90	38.41	0.64	0.5 cu ft	15.8mm

2-series subwoofers

model	cone material	power handling	woofer diameter	woofer cutout	woofer depth	nominal impedance (Z)	frequency response	Sd	Qes	Qms	Re (ohm)	Fs	Qts	Vas	Xmax
212a/4	copolymer	250W/500W peak	12" 305mm	11.25" 286mm	5.5" 140mm	4 ohm (4)	30Hz - 2500Hz	456 sq. cm.	0.63	5.60	3.33	30.9 Hz	0.56	1.9 cu ft	10.2mm
210a/4	copolymer	250W/500W peak	10" 254mm	9.25" 235mm	5.25" 133mm	4 ohm (4)	40Hz - 2500Hz	326 sq. cm.	0.64	5.76	3.65	34.3 Hz	0.58	0.9 cu ft	10.2mm

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