

AXTON ATC-S • TEST REPORT CAR&HIFI 3/2023

Axton ATC-S - Four entry-level component speaker systems on test



Budget component speaker systems

At Axton right now there is a whole slew of new speakers. The budget friendly ATC/ATX series of component and coaxial speaker systems is now at the dealers having been completely renewed. Here we test the four component speakers for DIN slots from 100 to 200 mm.

The entry-level component speakers from Axton have been a safe bet: the previous generation and the one before that have already proved themselves excellently in our tests. The 2023 generation is now called ATC-S and has been completely renewed. The component speakers are all well made

and delight with a very gratifying feel of quality – especially at the attractive prices. As before, the tweeter is constructed as a 25 mm woven fabric dome and may be mounted flush, or come in a housing for mounting on a surface or in a sloping dashboard, as desired. For the price class that is a comparative luxury: often there is only a 19 mm dome or something out of plastic – both



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as special version for trucks.

Measurements and Sound

The lab walkthrough showed that Axton

relies on proven quality. No test meas-

urement stands out, which is a good

sign for speakers. The ATC-S units rely

on impedances of 3 ohms (almost in

the 4-ohm region), which also presents

no problems at all for the car radio.

The Q-factors lie around 0.8, quite ac-

ceptable for installation in a car door

while not impairing the bass reproduc-

tion. The efficiencies or characteristic sound pressure levels look ok for the

two small systems. The 165 and 200

mm speakers at 89 dB (1W, 1m) are in

fact pretty good on account of the larg-

er cone areas. All the systems again re-

ceive a recommendation for operation

without an extra amplifier - important

cost-cutting
measures
that you don't
find at Axton. That
is save for the fact that
all component speakers
come with the same tweeter
crossover – naturally the simplest, though common practice. The crossover includes
small electrolytic capacitor as a
ter and a level resistor, selectab

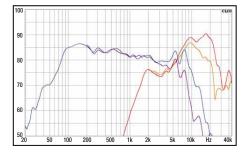
tice. The crossover includes a small electrolytic capacitor as a 6 dB filter and a level resistor, selectable by a switch. The woofer branch of the crossover is attached directly to the woofer so that the crossover housing is still easy to install and the ATC-S are wired up with minimal effort. Woofer crossovers consist of a coil that also filters at 6 dB. The coil is attached to the woofer. basket that for the ATC-S is now made of plastic. This makes a very good impression and is more pleasing than the standard metal basket in the cheaper version that are often found with entrylevel systems. The drivers of all ATC-S units are well made, individually dimensioned for every chassis. With pole plates that are cleanly stamped and no lack of magnetic material they have no need to fear comparison. Equally so for the Nomex centering spiders and poly-

in this price class. Also the new form of polypropylene cones which, by the way, are of new design. Alongside our component speaker systems, there are also coaxial versions in the sizes 10 to 16 cm and a 13 cm speaker with a dual voice coil

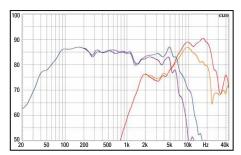
The 25 mm woven fabric dome tweeter can be installed in various ways

The crossover branches of the mid/woofers consist of a cored coil that is directly glued to the basket

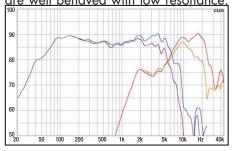
All ATC-S woofers are equipped with stable plastic baskets and have individually dimensioned drivers



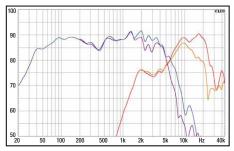
The ATC100S delivers 85 dB in the bass and fundamental. The mids are subdued relative to the highs – the classic "bath tub"



The ATC1305 delivers a balanced amplitude response; the small resonance at 4 kHz is well damped and harmless are well behaved with low resonance



The ATC165S in fact runs perfectly: as for all of them the remains of the fundamental resonance at 2 kHz can still be seen in the tweeter.



It is pleasing to see the ATC200S amplitude response extending to the low frequencies. The cone resonances of the large cone are spread over a range from 1.5 to 5 kHz



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The tweeter does its job up to 20 kHz, which is perfectly in order. As regards distortion the ATC-S units lie in the green zone, the smallest system ATC100S performing best in this test, followed by the ATC165S.

Sonically you will also rediscover yourself immediately. The way the systems play is very pleasant and balanced, with no distortion or hiss. It's not just because of the prices, the sets sound

mature with appealing colors and a load of bass, though this is not unpleasantly excessive. This is where the big 200 mm unit scores: though the level delivered is hardly more than the ATC165S, it does play markedly deeper. In the high range the common tweeter plays with a good level of detail and spatiality. Altogether the ATC165S is well balanced, delivering punchy bass, faithful reproduction in the midrange, and enough energy to make for fun. But the two small units also do a great job and earn big recommendations for smart buyers.

Summary

Subwoofers

Price

The new ATC-S series does not do any experiments here and that is a good thing. The chassis have been upgraded with very nice plastic baskets, and the

Axton

ATC100S

about 100 Euro

Price/performance: very good

Price/performance: excellent

"Budget-priced component speakers offering the best value for money."

Price/performance: excellent

Axton

ATC130S

about 110 Euro

parts most important for the sound have been reengineered to make the series fit for the next few years.

BEST PRODUCT	BEST PRODUCT	SOUND TIP
Middle-Class	Middle-Class	Middle-Class
CAR _{&} HiFi 3/2023	CAR _{&} HiFi 3/2023	CAR _{&} HiFi 3/2023

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ATC165S

about 120 Euro

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ATC200S

about 150 Euro

	CAR, HIFI 3/23	CAR HIFI 3/23	Middle-Class 1,2 CAR HIFI 3/23 Price/parformance excellent	Upper-Class 1, CAR HIFI 3
	Middle-Class 1,3	Middle-Class 1,2		
Power handling	25 – 60 W	25 – 60 W	20 – 80 W	20 – 80 W
Pressure 1 W, 1 m	85 dB	86 dB	89 dB	89 dB
B*I	3,41 Tm	3,52 Tm	4,21 Tm	4,99 Tm
Cms	0,47 mm/N	0,65 mm/N	0,46 mm/N	0,41 mm/N
Rms	0,67 kg/s	0,97 kg/s	1,01 kg/s	1,19 kg/s
Equivalent volume Vas Moving mass Mms	1,8 l 6,5 g	6,8 I 8,7 g	11,0 l 13 g	26,2 l 24 g
Total quality Qts	0,82	0,73	0,80	0,84
Electrical quality Qes	0,96	0,91	0,94	0,96
Mechanical quality Qms	5,54	3,80	5,31	6,42
Resonance frequency fs	91 Hz	67 Hz	66 Hz	51 Hz
Cone surface Sd	53 cm ²	87 cm ²	133 cm ²	214 cm ²
Coil diameter	25 mm	25 mm	25 mm	25 mm
Coil inductivity Le	0,38 mH	0,38 mH	0,40 mH	0,45 mH
Nominal impedance DC resistance Rdc	3 Ohm 2,98 Ohm	3 Ohm 3,07 Ohm	3 Ohm 3,08 Ohm	3 Ohm 3,13 Ohm
Other	-	-	-	-
Grill	•	•	•	•
Tweeter volume adjustment	0, -3 dB	0, -3 dB	0, -3 dB	0, -3 dB
Tweeter protection	-	-	-	-
Slope	6/6 dB	6/6 dB	6/6 dB	6/6 dB
Tweeter housing diameter	45 mm	45 mm	45 mm	45 mm
Magnet diameter Tweeter dome diameter	25 mm	25 mm	25 mm	90 mm 25 mm
Mountig depth Magnet diameter	39 mm 70 mm	43 mm 75 mm	47 mm 80 mm	90 mm
Mounting cutout Mountig depth	93 mm 39 mm	116 mm 43 mm	146 mm 47 mm	185 mm 57 mm
Chassis diameter	105 mm	133 mm	167 mm	210 mm
Technical data				
Workmannship 5 %	1,0	1,0	1,0	1,5
Crossover 10 %	1,5	1,5	1,5	2,0
Practice 15 %	1,3	1,3	1,3	1,8
Distortion 10 %	1,0	1,5	1,5	1,5
max. volume 10 %	1,5	1,5	1,5	1,5
Frequency response 10 %	1,0	1,0	1,0	1,0
Lab 30 %	1,2	1,3	1,3	1,3
Dynamics 11 %	1,5	1,5	1,5	1,5
Spatiality 11 %	1,0	1,0	1,0	1,0
Transparency 11 %	1,0	1,0	1,0	1,0
Neutrality 11 %	1,5	1,0	1,5	1,5
Sound quality 55 % Bass foundation 11 %	1,3	1,2	1,2	1,2
Summary	10	10	10	10
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Distributor	ACR, CH-Zurzach	ACR, CH-Zurzach	ACR, CH-Zurzach	ACR, CH-Zurzac
Price	about 100 Euro	about 110 Euro	about 120 Euro	about 150 Euro

