

Eton UG VW28 T6.1 + VAG 14
- Sound Upgrade for VW Bus T6

VW- Speakers

► Eton has an entire series of retrofit solutions available in its Upgrade line developed specially for certain vehicle types. We have the new set for the T6 on test in our office.



The injection molded basket of the mid/woofer is widened at the top to enable a touch more cone area

Audio upgrade at Eton refers to the category of vehicle-specific audio retrofits. Origin and centerpiece are the solutions for Volkswagen, Seat, Skoda and Audi, of which there are now many. And precisely here there is a whole lot going on. An outward sign of this is that our test kit for the VW Bus T6 did not arrive in one big box but in two separate packages for woofers and tweeters. Behind UG VW28 T6.1 is a pair of tweeters and the woofers are called VAG 14. Both are the beginning of a modular system that is gradually being extended until in the end any Volkswagen vehicle can be upgraded. Our VAG 14 speakers are, for example, the 14 cm woofers; we expect at least 20 cm and 17 cm variants will be

added. In the case of the tweeters there will be large 28 mm domes and more compact 25 mm ones in order to cover all mounting positions. Both chassis boast „Made in Germany“ as is usual for Eton – the company remains faithful to manufacturing its modular system in Germany. Accordingly we also get what we would expect: cleanly made speakers. The 14 cm speaker basket is made of fiber reinforced plastic and ideally exploits the available space to maximize cone surface area. Eton allows itself the luxury of a genuine 14 cm, that was specially developed for the VW application, where other manufacturers simply reach for a 13 cm speaker already available. The chassis is superbly ventilated out to the rear

and we find a ferrite driver that is no way weak. At the front we recognize the typical Eton cone of glass fiber reinforced paper, that is also successfully deployed in the universal speakers. The tweeter is also a new design and belongs to the class of 28 mm woven fabric domes. Every millimeter of cone surface area has also been fought for here: as much as 25 % more than with a 25 mm dome, since in this case the 28 mm speaker fits easily into the original mount in the T6.1. Woofer and tweeter have their crossovers in the connecting harness, which fits straight into the VW connectors. For the 14 cm woofer a coil is sufficient as low pass filter; the tweeter gets a 12 dB high-pass crossover with a level resistor.

Measurements and Sound

Especially in the case of vehicle speak-



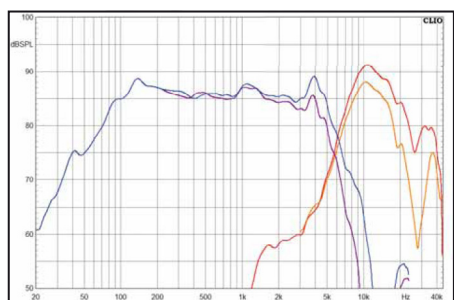
The Eton speaker is perfectly made right down to the moss rubber seal

the harmonics blend in superbly. In the bass the 14 cm speaker prefers to play precisely rather than ultra low, a compromise with which we are very content.

ers that happily run on the original radio it is useful to have the little trick that Eton also has on the VAG 14. The impedance of 3 instead of 4 ohms helps to tease out a bit more power from the little radio amplifier without overtaxing it. That results in a characteristic sound pressure level of 87 dB at 2 volts – not bad for a 14 cm speaker. In front of the microphone the woofer shows its class with a wonderful frequency response with no disturbing resonances; even below the corner it still gives a lot of level for its installation position low down in the door. The tweeter gets going above 5 kHz, while at the top end the big dome just makes 20 kHz only with difficulty – you cannot have everything. Sonically the Eton UG two-some delivers a very nicely balanced and mature performance. The mid-range with voices and instruments appears to us coherently harmonious and the highs are there in full. However, as the dome is careful with the music there is no sharpness in the sound and

Summary

The Eton set UG VAG 14 + UG VW T6.1 is a perfectly fitting upgrade option that brings a huge gain in sound quality.



Especially the 14 cm woofer runs fantastically far into the mid-range, delivering a robust 87 dB at 2 V, 1m

Separate crossovers are accommodated in the leads with VW connectors

SOUND-TIP
VW-Loudspeaker
CAR&HiFi 5/2022

Eton UG VW28 T6.1 + VAG 14

Price	about 300 Euro
Distributor	ACR, CH-5330 Zurzach
Hotline	info@acr.eu
Internet	www.eton-gmbh.com

Summary

▶ Sound quality	55 %	1,2	■■■■■
Bass	11 %	1,5	■■■■■
Neutrality	11 %	1,0	■■■■■
Transparency	11 %	1,0	■■■■■
Soundstaging	11 %	1,0	■■■■■
Dynamics	11 %	1,5	■■■■■
▶ Lab	30 %	1,3	■■■■■
Frequency response	10 %	1,0	■■■■■
max. volume	10 %	1,0	■■■■■
Distortion	10 %	2,0	■■■■■
▶ Practice	15 %	1,3	■■■■■
Installation	5 %	1,0	■■■■■
Crossover	5 %	2,0	■■■■■
Workmanship	5 %	1,0	■■■■■

Technical Data

Diameter TT	140 mm
Mounting depth TT	34 mm
Magnet diameter TT	85 mm
Tweeter dome diameter	28 mm
Tweeter housing diameter	42 mm
Slope	6/12 dB
Tweeter protection	–
Tweeter volume adjustment	–
Fits in here *	T6 front
other	–
Nominal impedance	3 ohms
DC resistance Rdc	2,83 ohms
Coil inductivity Le	0,23 mH
Coil diameter	25 mm
Cone surface Sd	119 cm ²
Resonance frequency Fs	84 Hz
Mechanical quality Qms	4,41
Electrical quality Qes	0,83
Total quality Qts	0,70
Equivalent volume Vas	5,5 l
Moving mass Mms	12,7 g
Rms	1,53 kg/s
Cms	0,28 mm/N
B*I	4,41 Tm
Pressure 2 V, 1 m	87 dB
Power handling	20 – 80 W

Eton UG VW28 T6.1 + VAG 14

VW-loudspeaker 1,2

CAR&HiFi 5/22

Price/performance: very good

"Great sounding quality speakers."