

S2 SPEAKERS

ACTIVE COMPONENT SPEAKER SYSTEM

USER MANUAL



S2-W6.2 / S2-T25.2

Thank you for choosing AI-SONIC!



FINNISH
DESIGN



HIGH
EFFICIENCY



CLEAN
SOUND



HIGH
QUALITY

IMPORTANT SAFETY INSTRUCTIONS



READ FIRST

Please read all warnings in this manual. They inform you of the potential danger of personal injury or damage to property.



HEARING DAMAGE

Continuous, excessive exposure to sound pressure levels above 85 dB can cause a loss of hearing.



VOLUME AND DRIVER AWARENESS

Use of sound components can impair your ability to hear necessary traffic sounds and may constitute a hazard while driving.



WORKING ON AUTOMOBILE

Disconnect the negative (-) terminal from the battery before starting installation. Check for cables and lines before drilling or cutting.



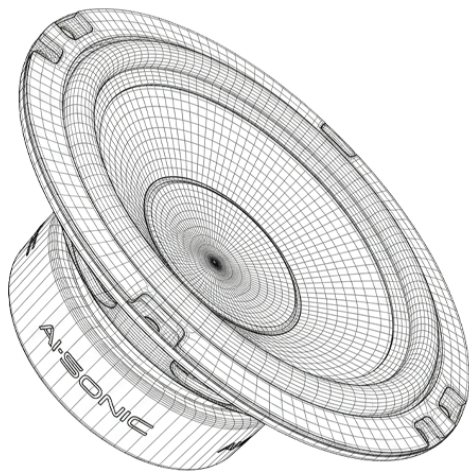
SHOCK HAZARD

Do not touch the connectors when the system is running!



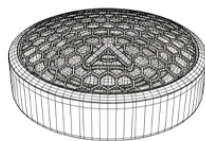
AI-SONIC accepts no liability for hearing loss, bodily injury or property damage as a result of use or misuse of this product.

PRODUCT OVERVIEW



S2-W6.2 MIDWOOFER

- 6.5" (165 mm)
- Black aluminium cone
- Rubber surround
- Steel basket
- 1.0" ASV voice coil
- 4 Ω impedance



S2-T25.2 TWEETER

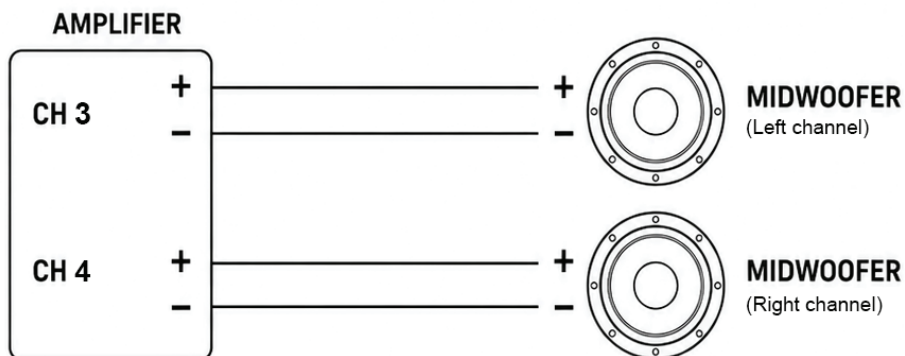
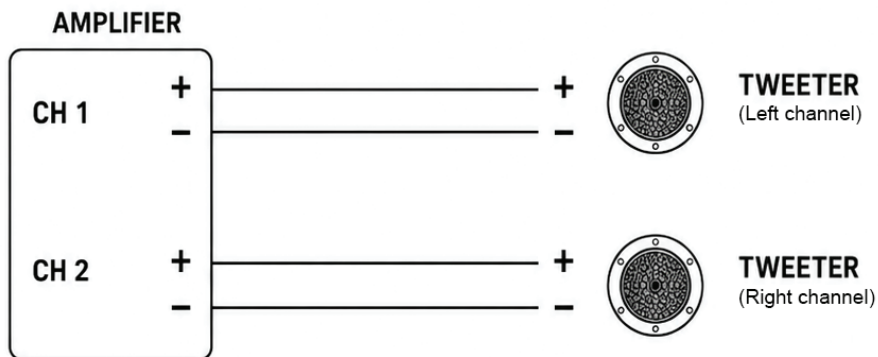
- 25 mm (1")
- Silk dome
- Neodymium magnet
- High efficiency

PACKAGE INCLUDES

- 2 $\times$ Midwoofer (S2-W6.2)
- 2 $\times$ Tweeter (S2-T25.2)
- Mounting accessories
- User manual

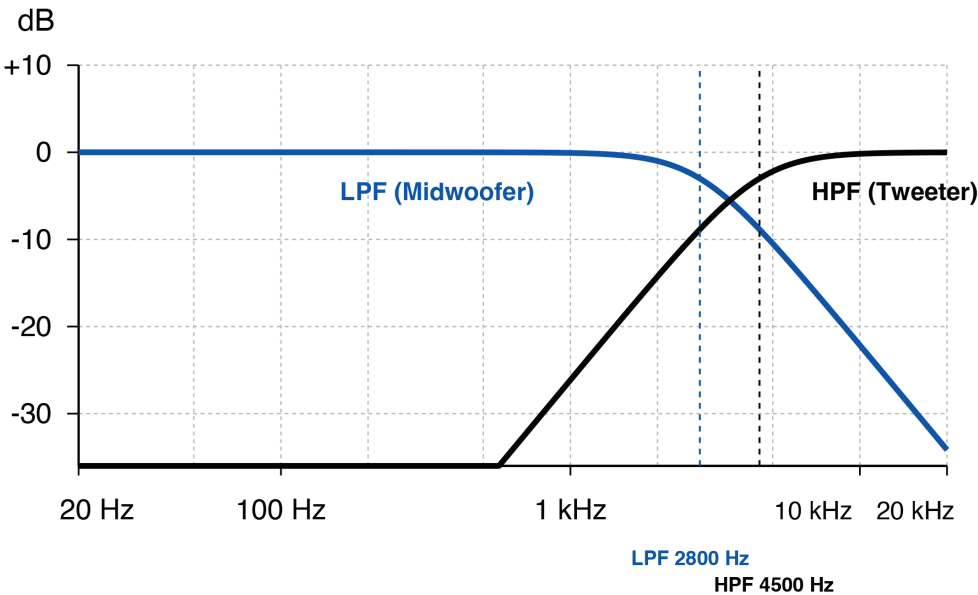
WIRING EXAMPLES

ACTIVE COMPONENT SYSTEM



Optional S2-XO.2 passive crossovers can be used with this product. Please see the instructions included with the passive crossover for connection details.

CROSSOVER / DSP RECOMMENDATIONS



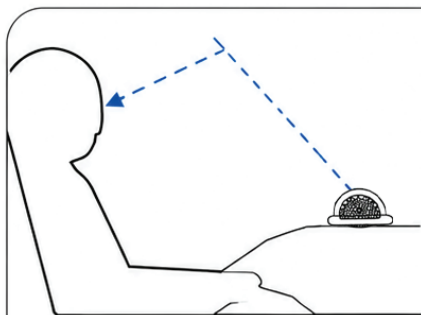
Recommended crossover points and slopes with AI-SONIC amplifiers / DSP.

Driver	Filter	Frequency	Slope
S2-W6.2 MIDWOOFER	Low Pass (LPF)	2800 Hz	12 dB / oct
S2-T25.2 TWEETER	High Pass (HPF)	4500 Hz	12 dB / oct



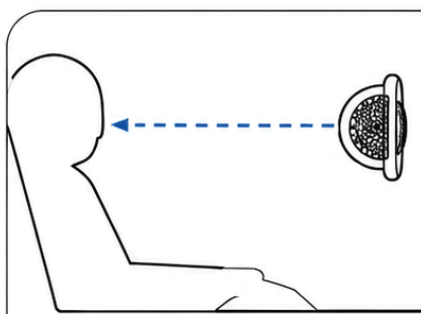
These settings are recommendations.
Fine tune by ear for best performance.

TWEETER SETUP (for active system)



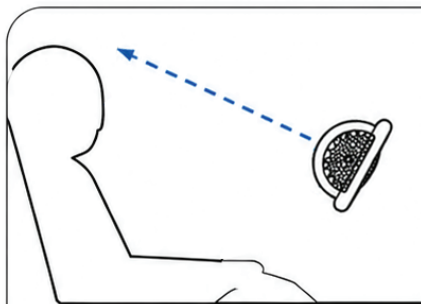
DASH MOUNT (off axis)

Tweeter may get window reflection.
In many cases use inverted polarity.
Try both ways and choose the best for your system.



ON AXIS (towards listener)

Phase 0°



OFF AXIS (towards center of vehicle)

Phase 180°



These values are recommendations based on our experience.
Every car and setup is different.

TECHNICAL SPECIFICATIONS

S2-W6.2 MIDWOOFER

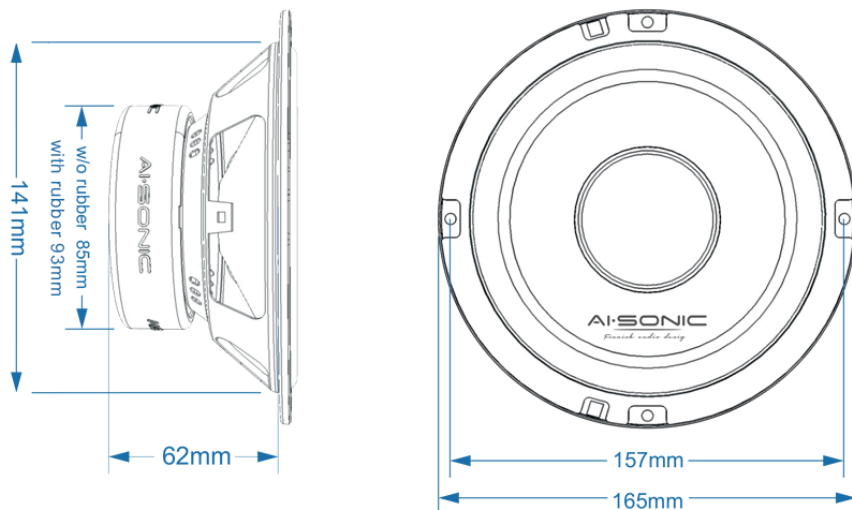
Nominal Diameter	165 mm (6.5")
Impedance	4 Ω
Frequency Response	40 Hz – 4.5 kHz
Sensitivity (SPL)	88 dB (1W / 1m)
Power Handling (RMS)	20 – 150 W
Fs	64 Hz
Vas	9.75 L
Qts	0,76
Xmax	$\pm$ 4.0 mm

S2-T25.2 TWEETER

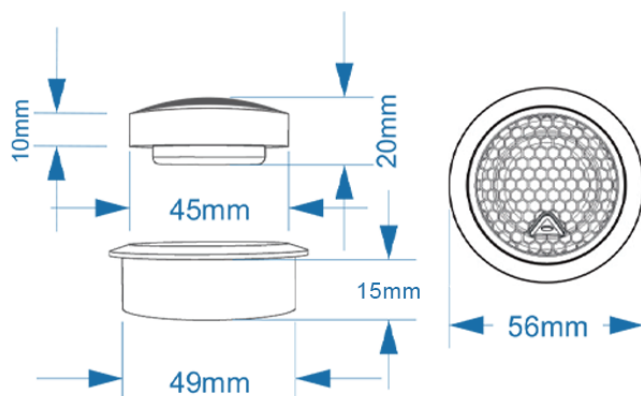
Nominal Diameter	25 mm (1")
Impedance	4 Ω
Frequency Response	1.5 kHz – 20 kHz
Sensitivity (SPL)	93 dB (1W / 1m)
Power Handling (RMS)	20 – 100 W

DIMENSIONS

S2-W6.2 MIDWOOFER

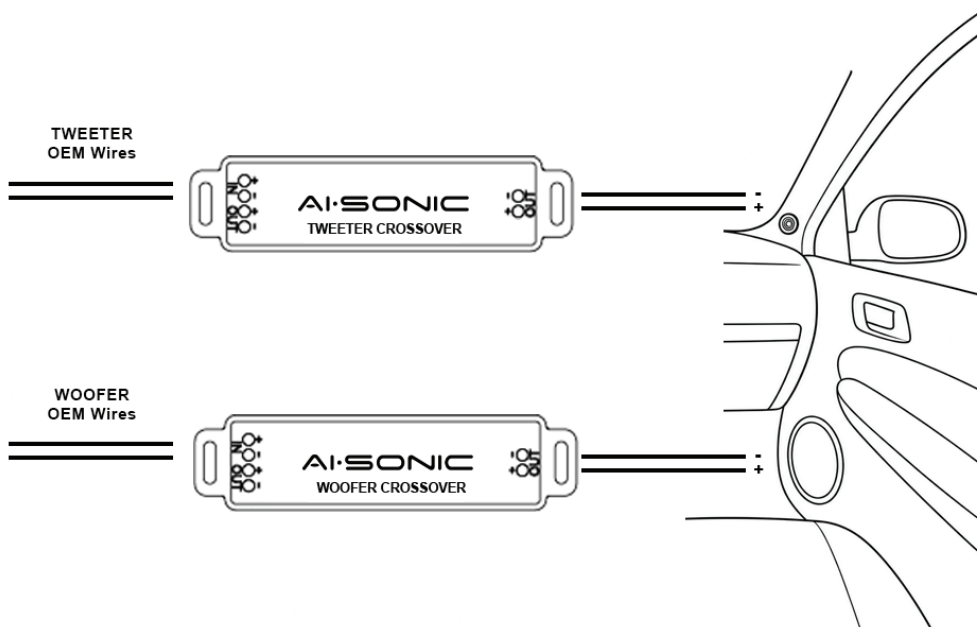


S2-T25.2 TWEETER



WIRING EXAMPLES

PASSIVE COMPONENT SYSTEM



**Ex. Use this connection method if you are using
the car's original speaker wires**

WIRING EXAMPLES

PASSIVE COMPONENT SYSTEM

(crossovers sold separately)

OPTION 1



OPTION 2

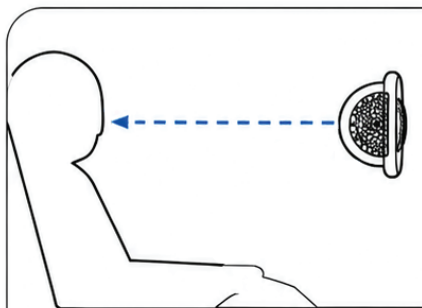


OPTION 3



Ex. You can use the amplifier's front channels for the tweeters and the rear channels for the mid-bass drivers, which gives you more amplifier power.
(option 3)

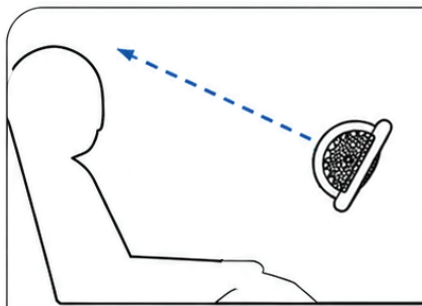
TWEETER SETUP (for passive crossover)



ON AXIS (towards listener)

Tweeter level adjustment

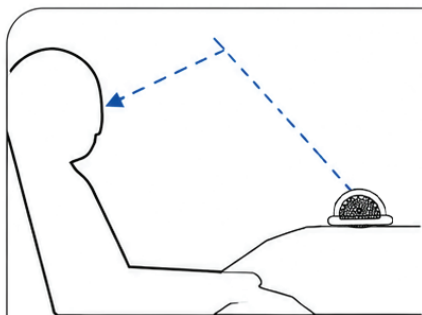
-3 dB



OFF AXIS (towards center of vehicle)

Tweeter level adjustment

0 dB



DASH MOUNT (off axis)

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