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> [Hertz SPL Show Series Bundle User Manual: ST 25A NEO Compression Tweeters & SV 165 NEO 6.5" Midrange Drivers](#)

HERTZ HertzBDL210910-06

Hertz SPL Show Series Bundle User Manual: ST 25A NEO Compression Tweeters & SV 165 NEO 6.5" Midrange Drivers

Model: HertzBDL210910-06

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Hertz SPL Show Series Bundle, which includes one pair of ST 25A NEO Compression Tweeters and one pair of SV 165 NEO 6.5" Midrange Drivers. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to maximize the performance and longevity of your audio components.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is highly recommended. Incorrect installation can lead to damage to the product, vehicle, or personal injury.
- **Power Disconnection:** Before any installation or wiring, disconnect the vehicle's battery to prevent electrical shorts and damage.
- **Wiring:** Ensure all wiring is correctly routed and secured to prevent pinching, chafing, or short circuits. Use appropriate gauge wire for power and speaker connections.
- **Ventilation:** Ensure adequate ventilation around the speakers to prevent overheating, especially during prolonged high-power operation.

- **Volume Levels:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Operate your audio system responsibly.
- **Environmental Conditions:** While these components feature waterproofing and anti-UV treatment, avoid direct exposure to extreme elements where possible to extend product life.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- One Pair (2x) Hertz SPL Show Series ST 25A NEO 1" High Efficiency Compression Tweeters
- One Pair (2x) Hertz SPL Show Series SV 165 NEO 6.5" 4-Ohm SPL Midrange Speaker Drivers
- Installation Accessories (e.g., mounting hardware, wiring terminals - specific items may vary)
- User Manual (this document)



Image 3.1: Contents of the Hertz SPL Show Series Bundle, including two midrange drivers, two compression tweeters, a pry tool kit, and a cozy.

4. PRODUCT OVERVIEW

4.1. Hertz SPL Show Series ST 25A NEO Compression Tweeters

The ST 25A NEO tweeters are designed for high-efficiency sound reproduction, featuring a powerful Neodymium magnet and a compact size. They are built for robust performance in demanding audio environments.

- **Neodymium Magnet:** Provides high performance in a compact form factor.
- **FEM Optimized:** Phase-plug and loading horn are optimized using Finite Element Method for acoustic precision.
- **CCAR Voice Coil:** Copper Clad Aluminium Ribbon voice coil offers high thermal and mechanical capability, with an easy replacement body kit.
- **Aluminium Membrane:** Extra-light design to maximize Sound Pressure Level (SPL).
- **Durability:** Features body waterproofing and anti-UV treatment for outdoor use without discoloration.



Image 4.1: A pair of Hertz SPL Show Series ST 25A NEO Compression Tweeters. These compact, black tweeters feature a horn-loaded design for high-frequency output.



Image 4.2: An angled view of a single Hertz SPL Show Series ST 25A NEO Compression Tweeter, highlighting its robust construction and horn design.

4.2. Hertz SPL Show Series SV 165 NEO 6.5" Midrange Drivers

The SV 165 NEO midrange drivers are engineered for powerful mid-frequency reproduction, utilizing Neodymium magnets for excellent performance in a compact and lightweight design. They are also built for durability in various environments.

- **Compact & Lightweight:** Achieved through the use of Neodymium N38 H motor units, preserving performance.
- **Waterproofing & Anti-UV:** Cones are treated to allow safe outdoor use without discoloration.
- **Oxidation Prevention:** Motor units are treated with cathoporesis, and lead-wires are insulated.
- **Compatibility:** Terminals and mounting holes are designed for installation on Harley-Davidson

motorbikes, indicating versatile mounting options.

- **Cone Material:** Water-Repellent Pressed Paper.



Image 4.3: A pair of Hertz SPL Show Series SV 165 NEO 6.5-inch Midrange Drivers. These black speakers feature a central "SPL Show" logo and a durable cone.



Image 4.4: An angled view of a single Hertz SPL Show Series SV 165 NEO 6.5-inch Midrange Driver, showing the cone texture and mounting points.

5. SETUP & INSTALLATION

Proper installation is crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified professional.

5.1. Pre-Installation Checks

- **Vehicle Compatibility:** Ensure the mounting locations in your vehicle can accommodate the dimensions of the SV 165 NEO (6.5") midrange drivers and ST 25A NEO tweeters.
- **Power Requirements:** Confirm your amplifier can safely power these components. Refer to the specifications section for power handling.
- **Tools:** Gather all necessary tools, including screwdrivers, wire strippers, crimpers, drill, and safety equipment.

5.2. Mounting

Midrange Drivers (SV 165 NEO):

1. Carefully remove existing speakers or prepare the mounting location.

2. Ensure the mounting surface is flat and free of obstructions.
3. Position the SV 165 NEO driver and mark the screw holes. Drill pilot holes if necessary, ensuring not to damage any vehicle wiring or components behind the panel.
4. Secure the driver using the provided mounting screws. Do not overtighten.

Tweeters (ST 25A NEO):

1. Choose a mounting location that allows for optimal sound dispersion and imaging, typically at ear level or slightly above.
2. These tweeters can be flush-mounted or surface-mounted depending on the included accessories and desired aesthetic.
3. Follow the specific instructions provided with the tweeter mounting hardware for precise installation.

5.3. Wiring

General Wiring Guidelines:

- Always ensure the vehicle's battery is disconnected before making any electrical connections.
- Connect the positive (+) terminal of the speaker to the positive (+) output of the amplifier/crossover, and the negative (-) terminal to the negative (-) output.
- Use high-quality speaker wire of appropriate gauge to minimize power loss and ensure clear signal transmission.
- For the ST 25A NEO tweeters, a high-pass filter is required to protect them from low frequencies. The specifications indicate "Hi-pass filtered @ 5 kHz - 12 dB Oct." This means a crossover should be set to filter out frequencies below 5 kHz with a 12 dB per octave slope. Failure to use a proper high-pass filter will damage the tweeters.
- For the SV 165 NEO midrange drivers, a band-pass filter is typically used, allowing frequencies within their operational range (e.g., 150 Hz to 5 kHz) to pass through.
- Secure all wiring to prevent movement, chafing, and potential short circuits.

Warning: Incorrect wiring can damage the speakers and/or amplifier. Consult a professional if unsure.

6. OPERATING INSTRUCTIONS

Once installed, follow these guidelines for optimal operation:

- **Initial Power-Up:** After installation, reconnect the vehicle battery. Turn on your audio system at a low volume level.
- **System Tuning:** Adjust your amplifier's gain settings, crossover points, and equalization (EQ) to achieve balanced sound. Pay close attention to the crossover settings for the tweeters (high-pass at 5 kHz, 12 dB/oct) and midrange drivers.
- **Break-In Period:** Allow a break-in period of several hours of normal listening before operating the speakers at high volumes. This allows the speaker components to loosen and perform optimally.
- **Volume Control:** Avoid operating the system at excessively high volumes for extended periods, as this can lead to speaker damage and hearing loss. If you hear distortion, reduce the volume immediately.

7. MAINTENANCE

These Hertz SPL Show Series components are designed for durability and require minimal maintenance:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust or dirt from the speaker cones and grilles. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker connections for tightness and ensure no wires are frayed or exposed. Inspect mounting hardware for security.
- **Environmental Protection:** While treated for UV and water resistance, protecting the speakers from prolonged direct sunlight and extreme moisture will extend their lifespan and maintain aesthetic appearance.

8. TROUBLESHOOTING

If you experience issues with your Hertz SPL Show Series components, refer to the following common problems and solutions:

8.1. No Sound from Speakers

- **Check Connections:** Ensure all speaker wires are securely connected to both the speakers and the amplifier/head unit. Verify correct polarity (+ to + and - to -).
- **Amplifier Status:** Check if the amplifier is powered on and not in protection mode.
- **Source Unit:** Confirm the head unit or source is powered on and playing audio.
- **Fuses:** Check fuses in the amplifier and vehicle's fuse box.

8.2. Distorted or Unclear Sound

- **Volume Level:** Reduce the volume. Distortion often occurs when the amplifier or speakers are overdriven.
- **Gain Settings:** Adjust the amplifier's gain settings. Too high a gain can cause clipping and distortion.
- **Crossover Settings:** Verify that the crossover frequencies are correctly set for both tweeters and midrange drivers as per specifications. Incorrect crossover settings can lead to distortion or damage.
- **Wiring:** Check for loose or shorted speaker wires.
- **Speaker Damage:** Inspect speaker cones and surrounds for any visible damage.

8.3. One Speaker Not Working

- **Individual Connections:** Check the wiring for the specific non-working speaker.
- **Balance/Fader:** Ensure the balance and fader settings on your head unit are centered.
- **Amplifier Channel:** If using a multi-channel amplifier, test the output of the specific channel connected to the non-working speaker.

If problems persist after troubleshooting, contact Hertz customer support or a qualified car audio technician.

9. SPECIFICATIONS

9.1. Hertz SPL Show Series ST 25A NEO Compression Tweeters (Pair)

Feature	Specification
Size	44 mm (1.8 inches)

Feature	Specification
Power Handling - Peak	100 W (Hi-pass filtered @ 5 kHz - 12 dB Oct.)
Impedance	4 Ω
Frequency Response	3 kHz ÷ 20 kHz
Sensitivity	107 dB SPL
Voice Coil \emptyset	25 mm (1 inch)
Magnet Material	Neodymium
Cone Material	Aluminum
Voice Coil Material	CCAR (Copper Clad Aluminium Ribbon)
Special Features	FEM optimized phase-plug and loading horn, Body waterproofing and anti-UV treatment

9.2. Hertz SPL Show Series SV 165 NEO 6.5" Midrange Speaker Drivers (Pair)

Feature	Specification
Size	165 mm (6.5 inches)
Impedance	4 Ω
Magnet Material	Neodymium N38 H
Cone Material	Water-Repellent Pressed Paper
Special Features	Cones waterproofing and anti-UV treatment, Motor units treated with cataphoresis, Insulated lead-wires, Compatible for Harley-Davidson motorbikes installation

9.3. General Product Specifications

Feature	Specification
Item Weight	3 pounds
Package Dimensions	19 x 15 x 9 inches
Model Number	HertzBDL210910-06
ASIN	B09G79LN28
Manufacturer	Hertz
Date First Available	September 14, 2021

10. WARRANTY & SUPPORT

Warranty Information:

This Hertz SPL Show Series Bundle is covered by a **1-Year Manufacturer Warranty**. This warranty typically covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Hertz customer support directly. Refer to the official Hertz website or your purchase documentation for contact details.

Online Resources:

Additional information, FAQs, and product registration may be available on the official [Hertz Brand Store](#) or their corporate website.

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Related Documents - HertzBDL210910-06

	<p>Hertz SPL Show Series Car Audio Speakers - Owner's Manual and Specifications</p> <p>Comprehensive owner's manual and technical specifications for the Hertz SPL Show series car audio speakers and drivers. Includes installation guides, safety information, warranty details, dimensions, wiring diagrams, and electro-acoustic parameters for models like ST 25K Neo, SV 165.1, SX 690 Neo, and more.</p>
	<p>Hertz SPL Show Series Owner's Manual - Car Audio Installation and Specifications</p> <p>Comprehensive owner's manual for Hertz SPL Show Series car audio components, including installation guides, safety information, technical specifications, and warranty details. Covers models like SX 690 Neo, SV series, and ST series.</p>



[Hertz Mille PRO Owner's Manual - Car Audio Speaker Installation and Specifications](#)

Comprehensive owner's manual for Hertz Mille PRO car audio speakers. Includes installation guidelines, safety instructions, technical specifications, wiring diagrams, and warranty information.



[Hertz Mille LEGEND Owner's Manual: Car Audio Installation & Specifications](#)

Comprehensive owner's manual for Hertz Mille LEGEND car audio components, detailing installation, usage, technical specifications, and enclosure design for subwoofers and speakers.



[Hertz SP 4.500 SPL Show User's Manual](#)

User's manual for the Hertz SP 4.500 SPL Show D-Class Mono Amplifier, detailing installation, connections, technical specifications, and safety precautions.



[Hertz UNO Series Car Speakers Owner's Manual](#)

This owner's manual provides installation and usage instructions for Hertz UNO series car speakers, including models X 130, X 165, X 170, X 690, K 130, K 165, and K 170. It details technical specifications and safety guidelines.