

KICKER KPX500.1

KICKER KPX500.1 Weather-Resistant Mono Amplifier System User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your KICKER KPX500.1 Weather-Resistant Mono Amplifier System. This system includes the KPX500.1 amplifier, a dual bass remote control, and a comprehensive wiring install kit. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.



Figure 1.1: The Kicker KPX500.1 Weather-Resistant Mono Amplifier, Dual Bass Remote, and Wiring Install Kit. This image displays all components included in the product bundle, providing a visual overview of the system.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits.
- Do not mount the amplifier in locations where it may be exposed to excessive heat, moisture, or vibration beyond its weather-resistant capabilities.
- Use appropriate gauge wiring as specified in this manual and the wiring kit.
- If you are unsure about any installation steps, consult a professional installer.
- Avoid listening to audio at extremely high volumes for extended periods, as this can cause hearing damage.

3. PACKAGE CONTENTS

Your KICKER KPX500.1 Weather-Resistant Mono Amplifier System includes the following components:

3.1. KICKER KPX500.1 Mono Amplifier

- Weather-resistant design
- Compact form factor

3.2. Dual Bass Remote Control

- Single knob with metal finish
- Designed for KICKER mono amplifiers and powered subwoofers

3.3. Wiring Install Kit

- 17 ft 4 AWG Blue Power Wire
- 4 ft 4 AWG Gray Ground Wire
- Self-tapping bolt and washer
- FHS Fuse Holder with 100 Amp Fuse (L=3.06, W=1.33, H=1.32)
- 17 ft 16 Gauge Remote Wire
- 16.4 ft KI RCAs (Interconnects)
- 12 ft Q Series 12 AWG Speaker Wire
- 6x Zip Ties
- 4 AWG Firewall Grommet
- 1x 18-22 AWG Butt Connector
- 4x 12 AWG Fork Terminals
- 2x Blue Fork Terminal Boots
- 2x Black Fork Terminal Boots



Figure 3.1: Components of the Kicker Amplifier Wiring Install Kit. This image displays the various wires, connectors, and accessories included for amplifier installation.

4. PRODUCT OVERVIEW

4.1. KICKER KPX500.1 Mono Amplifier

The KPX500.1 is a weather-resistant mono amplifier designed for robust audio performance, particularly suitable for motorcycles where it can fit under fairings. It delivers dynamic power and features advanced audio controls.

- **Dynamic Power:** 750 Watts
- **RMS Power Output:** 150W x 1 Mono (4 Ohm), 300W x 1 Mono (2 Ohm), 500W x 1 Mono (1 Ohm)
- **Signal-to-Noise Ratio:** 90dB
- **Frequency Response:** 10Hz – 160kHz
- **KickEQ Bass Boost:** Selectable bass boost for enhanced low-frequency response.
- **Electronic Crossover:** Adjustable for precise sound tuning.
- **Subsonic Filter:** Protects subwoofers from damaging ultra-low frequencies.
- **Input Signal Compatibility:** Accepts signals from 125 millivolts to 40 volts, ensuring compatibility with both

factory and aftermarket radios.



Figure 4.1: The Kicker KPX500.1 Weather-Resistant Mono Amplifier. This image shows the compact and durable design of the amplifier unit.

4.2. Dual Bass Remote Control

The included dual bass remote control allows for convenient adjustment of bass levels. It is compatible with all KICKER mono amplifiers (or amps with mono channels) and powered subwoofers that utilize a 3.5mm level controller input. The single knob design provides intuitive control over one or two mono-channel amplifiers.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this system installed by a qualified professional if you are not experienced with car audio wiring.

5.1. General Wiring Guidelines

1. **Disconnect Battery:** Always disconnect the negative terminal of your vehicle's battery before starting any wiring.

2. **Mounting Location:** Choose a secure, dry, and well-ventilated location for the amplifier. For motorcycle applications, ensure it fits securely within the fairing.
3. **Wire Routing:** Route power, ground, and signal cables separately to minimize noise interference. Avoid sharp edges and moving parts.
4. **Fusing:** Install the provided 100 Amp fuse holder within 18 inches of the battery's positive terminal.

5.2. Amplifier Wiring Steps

1. **Power Connection:** Connect the 17 ft 4 AWG blue power wire from the fuse holder (connected to the battery's positive terminal) to the amplifier's +12V terminal.
2. **Ground Connection:** Connect the 4 ft 4 AWG gray ground wire from the amplifier's GND terminal to a clean, bare metal chassis point on the vehicle. Use the self-tapping bolt and washer to ensure a secure connection.
3. **Remote Turn-On:** Connect the 17 ft 16 gauge remote wire from your head unit's remote output to the amplifier's REM terminal. This wire turns the amplifier on and off with your head unit.
4. **Signal Input:** Use the 16.4 ft KI RCAs to connect the head unit's RCA outputs to the amplifier's RCA inputs. If your head unit does not have RCA outputs, the amplifier's high-level input can be used (refer to the amplifier's specific wiring diagram for high-level input).
5. **Speaker Output:** Connect your subwoofer(s) to the amplifier's speaker output terminals using the 12 ft Q Series 12 AWG speaker wire. Ensure correct polarity (+ to + and - to -).

5.3. Dual Bass Remote Installation

Mount the dual bass remote in a convenient location within reach of the driver. Connect the remote to the amplifier's remote input jack (typically a 3.5mm input) using the provided cable. This remote allows for real-time adjustment of bass levels.

6. OPERATING INSTRUCTIONS

6.1. Initial Power-Up

After completing all wiring and double-checking connections, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on automatically via the remote turn-on wire.

6.2. Adjusting Amplifier Settings

The KPX500.1 amplifier features several adjustable controls to fine-tune your audio system:

- **Gain Control:** Adjust the gain to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly.
- **Crossover:** Set the low-pass filter (LPF) to the recommended frequency for your subwoofer(s). This ensures only low frequencies are sent to the subwoofer.
- **Subsonic Filter:** Adjust the subsonic filter to protect your subwoofer from playing frequencies below its resonant frequency, which can cause damage.
- **KickEQ Bass Boost:** Use this control to add a boost to specific bass frequencies if desired. Use sparingly to avoid distortion.

6.3. Using the Dual Bass Remote

The dual bass remote allows you to conveniently adjust the output level of your connected mono amplifier(s) or powered subwoofer(s) from your listening position. Rotate the knob clockwise to increase bass output and counter-clockwise to decrease it.

7. MAINTENANCE

The KICKER KPX500.1 amplifier is designed for durability and weather resistance, requiring minimal maintenance.

- **Cleaning:** Periodically wipe the amplifier and remote with a soft, dry cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections for tightness and signs of corrosion or damage. Ensure the fuse holder is secure and the fuse is intact.
- **Ventilation:** Ensure the amplifier's cooling fins are free from obstructions to allow for proper heat dissipation.

8. TROUBLESHOOTING

If you experience issues with your KICKER KPX500.1 system, refer to the following common problems and solutions:

8.1. No Power/Amplifier Not Turning On

- **Check Fuse:** Verify the 100 Amp fuse in the fuse holder is not blown. Replace if necessary.
- **Power/Ground Connections:** Ensure the +12V power and GND wires are securely connected and have good contact.
- **Remote Turn-On:** Check that the remote wire is connected to a switched 12V source from your head unit and is receiving power when the head unit is on.
- **Battery Voltage:** Ensure your vehicle's battery has sufficient charge.

8.2. No Sound Output

- **RCA/Signal Input:** Verify RCA cables are securely connected at both the head unit and amplifier. Test with another audio source if possible.
- **Speaker Connections:** Check speaker wire connections at both the amplifier and subwoofer for correct polarity and secure contact.
- **Head Unit Settings:** Ensure the head unit's volume is up and the correct audio source is selected.
- **Amplifier Gain:** Ensure the amplifier's gain is not set to minimum.

8.3. Distorted Sound

- **Gain Setting:** Reduce the amplifier's gain. If the gain is set too high, it can cause distortion.
- **Crossover/Subsonic Filter:** Adjust these settings to ensure the subwoofer is only playing appropriate frequencies.
- **Speaker Impedance:** Verify that the connected subwoofer's impedance is within the amplifier's supported range (1-4 Ohm).
- **Power Supply:** Ensure the amplifier is receiving stable power. Low voltage can cause distortion.

8.4. Bass Remote Not Functioning

- **Cable Connection:** Ensure the remote cable is securely plugged into both the remote and the amplifier's input jack.
- **Compatibility:** Confirm the amplifier supports the 3.5mm remote input.

9. SPECIFICATIONS

Technical specifications for the KICKER KPX500.1 Mono Amplifier:

Feature	Specification
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Feature	Specification
Brand	KICKER
Model	KPX500.1
Type	Mono Amplifier
Dynamic Power	750 Watts
RMS Power Output (4 Ohm)	150W x 1
RMS Power Output (2 Ohm)	300W x 1
RMS Power Output (1 Ohm)	500W x 1
Signal-to-Noise Ratio	90dB
Frequency Response	10Hz – 160kHz
Features	KickEQ Bass Boost, Electronic Crossover, Subsonic Filter
Input Signal Range	125 millivolts to 40 volts
Item Weight	4.5 Pounds
ASIN	B0DZF6PC7V
UPC	840440911548

10. WARRANTY AND SUPPORT

The KICKER KPX500.1 Mono Amplifier System is manufactured by Kicker. For detailed warranty information, product registration, and technical support, please visit the official Kicker website or contact their customer service department. Keep your proof of purchase for warranty claims.

Manufacturer: Kicker

For the most current support information, please refer to the KICKER official website: www.kicker.com

Related Documents - KPX500.1



[KICKER KXMA1500.1 Mono Amplifier Owner's Manual](#)

Comprehensive owner's manual for the KICKER KXMA1500.1 mono amplifier, detailing performance specifications, installation guides, operation instructions, gain matching, troubleshooting, and warranty information.



[KICKER WXA3600.1 Warhorse Mono Amplifier Owner's Manual](#)

Owner's manual for the KICKER WXA3600.1 Warhorse mono amplifier, detailing features, installation, wiring, operation, troubleshooting, and warranty information for car audio systems.



[KICKER HS8 Hideaway™ Powered Subwoofer Enclosure Owner's Manual](#)

Detailed guide for installing, operating, and troubleshooting the KICKER HS8 Hideaway™ powered subwoofer enclosure. Includes specifications, wiring diagrams, control explanations, and warranty information.



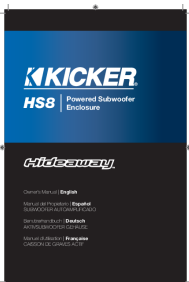
[KICKER KMC4 Media Center Owner's Manual](#)

This document provides comprehensive installation, operation, and troubleshooting information for the KICKER KMC4 (46KMC4) Media Center, detailing specifications, features, connectivity options, and user controls.



[KICKER PXIBT100.2 Stereo Integrated Amplifier Owner's Manual](#)

Comprehensive owner's manual for the KICKER PXIBT100.2 amplified controller, covering installation, operation, performance specifications, and troubleshooting for Bluetooth, AUX, and USB audio sources.



[KICKER HS8 Hideaway Powered Subwoofer Enclosure Owner's Manual](#)

This manual provides detailed instructions for the installation, wiring, operation, and troubleshooting of the KICKER HS8 Hideaway powered subwoofer enclosure. It includes specifications, control descriptions, and warranty information.

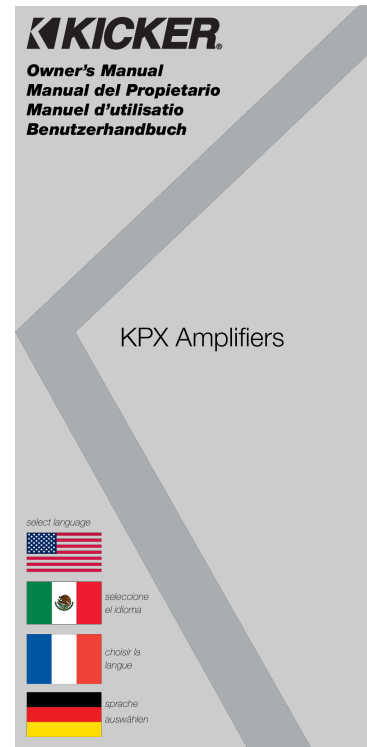


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Installation ManualKicker KPX500 1 Mono Subwoofer Amplifier 500W Compact Waterproof Motorcycle Ampkicker kpx motorcycle amplifier manualslingmods kicker manual |||

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KPX Amplifiers shop kicker English 4 Specifications Note All specifications and performance figures are subject to change Please visit for the most current information To get best from your new KICKER amplifier we recommend using genuine 51KPX files manuals |||

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