XS Power XP750-CK

XS Power XP750-CK XP FLEX 4 AWG Installation Kit and XP750 Battery Combo User Manual

Model: **XP750-CK** | Brand: **XS Power**

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your XS Power XP750-CK XP FLEX 4 AWG Installation Kit and XP750 Battery Combo. Please read this manual thoroughly before installation and retain it for future reference.

2. Product Overview

The XS Power XP750-CK kit is designed to provide high-performance power delivery for automotive audio systems, supporting 1000W to 1500W applications. It includes an XP750 12V AGM battery and XP Flex 4 AWG power cable, known for its flexibility and adherence to CEA-2015 cabling standards.

Key Features:

- **12V AGM Battery:** Advanced Glass Mat technology for reliable power.
- **Max Amps 750A:** High current delivery capability.
- **XP Flex 4 AWG Cable:** 10% Oxygen Free Copper Clad Aluminum (CCA) with 5,250 strand count, exceeding CEA-2015 standards.
- **Flexible Design:** Easy installation in various automotive setups.



Figure 1: XS Power XP750-CK XP FLEX 4 AWG Installation Kit and XP750 Battery Combo. This image shows the main components of the kit, including the battery and cabling.

3. Safety Information

Always prioritize safety during installation and operation. Failure to follow these guidelines can result in serious injury or damage to your vehicle and equipment.

- **Disconnect Power:** Always disconnect the vehicle's main battery before performing any electrical work.
- **Eye Protection:** Wear appropriate eye protection to prevent injury from sparks or battery acid.
- **Proper Ventilation:** Ensure adequate ventilation when working with batteries.
- **Avoid Short Circuits:** Do not allow tools or metal objects to bridge battery terminals or other electrical components.
- **Correct Polarity:** Connect positive (+) to positive and negative (-) to negative. Incorrect polarity can cause severe damage.
- **Fuse Protection:** Always use appropriate fuse holders and fuses as specified in the installation instructions to protect against overcurrent.
- **Secure Connections:** Ensure all electrical connections are tight and secure to prevent arcing and overheating.
- **Professional Installation:** If you are unsure about any part of the installation process, seek assistance from a qualified professional.

4. Setup and Installation

This section outlines the general steps for installing the XP750-CK kit. Refer to the wiring diagram for visual guidance.

4.1 Components Included:

- (1) XS Power XP750 12V AGM Battery
- XP Flex 4 AWG Power Cable

- Fuse Holders
- Associated hardware for installation

4.2 Pre-Installation Checks:

- Verify all components are present and undamaged.
- Ensure you have the necessary tools (wire cutters, crimpers, wrenches, multimeter, etc.).
- Confirm the vehicle's electrical system can support the additional load.
- Note: The kit includes terminal rings designed for post batteries. If your XP750 battery uses screw mounts, you may need to acquire compatible terminals separately.

4.3 Wiring Diagram:



Figure 2: XP750-CK Wiring Diagram. This diagram illustrates the typical installation of the power and ground wires, including fuse holders, connecting the battery to the vehicle's electrical system. Note that the "BIG 3 KIT" components (PN-BIG3XS, PN-BIG3XP) are not included with this specific kit but are shown for reference in a complete system upgrade.

4.4 Installation Steps:

1. **Mount the Battery:** Securely mount the XP750 battery in a suitable location, typically in the trunk or near the amplifier, ensuring it is stable and protected from physical damage.
2. **Run Power Wire:** Route the XP Flex 4 AWG power wire from the XP750 battery to the amplifier. Ensure the cable is protected from sharp edges and heat sources.
3. **Install Fuse Holders:** Integrate the provided fuse holders into the power wire as close as possible to the battery terminals (both the main vehicle battery and the XP750 battery if used as an auxiliary). This protects the system from short circuits and overloads.
4. **Connect Ground Wire:** Connect the ground wire from the amplifier to a solid, clean chassis ground point. Ensure the connection is free of paint, rust, or dirt for optimal conductivity.
5. **Connect to Amplifier:** Connect the power and ground wires to your amplifier according to the amplifier's instructions.
6. **Final Checks:** Double-check all connections for tightness and correct polarity. Ensure all cables are properly secured and insulated.
7. **Reconnect Main Battery:** Once all connections are verified, reconnect the vehicle's main battery.

5. Operating Instructions

The XP750-CK kit is designed to seamlessly integrate with your vehicle's electrical system to provide stable power for your audio components. Once installed correctly, the system operates automatically with your vehicle.

- **System Activation:** The battery will charge and discharge as needed by your audio system and vehicle's alternator.
- **Monitoring:** While not strictly required, monitoring your vehicle's voltage with a voltmeter can help ensure optimal performance, especially under heavy load.
- **Normal Operation:** The XP750 AGM battery is maintenance-free under normal operating conditions.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your XP750-CK system.

- **Terminal Inspection:** Periodically inspect battery terminals and cable connections for corrosion, looseness, or damage. Clean any corrosion with a wire brush and baking soda solution, then rinse with water and dry thoroughly.
- **Cable Integrity:** Check the XP Flex cables for any signs of wear, fraying, or damage to the insulation. Replace damaged

cables immediately.

- **Fuse Check:** Ensure fuse holders are secure and fuses are intact. Replace blown fuses with ones of the correct amperage rating.
- **Battery Cleaning:** Keep the battery clean and free of dirt and debris.
- **Charging:** If the vehicle is stored for extended periods, consider using a smart charger designed for AGM batteries to maintain optimal charge.

7. Troubleshooting

This section addresses common issues you might encounter with your XP750-CK system.

Problem	Possible Cause	Solution
Dimming lights or weak audio output	Insufficient power delivery, loose connections, or undersized wiring.	◦ Check all power and ground connections for tightness. ◦ Verify the main vehicle battery and alternator are functioning correctly. ◦ Ensure the XP Flex 4 AWG cable is properly routed and undamaged. ◦ Consider upgrading the "Big 3" wiring (alternator positive to battery positive, battery negative to chassis, engine block to chassis) if not already done, using a kit like PN-BIG3XS or PN-BIG3XP (not included).
No power to amplifier	Blown fuse, disconnected power wire, or faulty amplifier.	◦ Check all fuse holders and replace any blown fuses with the correct amperage. ◦ Inspect the power wire for breaks or disconnections. ◦ Verify the remote turn-on wire (if applicable) is connected and receiving signal. ◦ Test the amplifier separately if possible.
Battery not charging	Faulty alternator, loose charging connections, or internal battery issue.	◦ Have your vehicle's alternator tested by a professional. ◦ Check all connections between the battery and the vehicle's charging system. ◦ If issues persist, consult XS Power support.

8. Specifications

Feature	Detail
Brand	XS Power
Model Number	XP750-CK
Battery Type	12V AGM (Absorbed Glass Mat)
Max Amps	750A
Number of Cells	6
Power Cable Gauge	4 AWG (American Wire Gauge)
Cable Composition	10% Oxygen Free Copper Clad Aluminum (CCA)
Cable Strand Count	5,250
Product Dimensions	14 x 11 x 4 inches (35.56 x 28.956 x 10.922 cm)
Item Weight	12.24 pounds (5.55 kg)

Feature	Detail
Automotive Fit Type	Universal Fit
UPC	692209051114

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact XS Power directly. Refer to the official XS Power website or your purchase documentation for the most current contact details and warranty terms.
XS Power Website: www.xspowerbatteries.com

© 2024 XS Power. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question