

XP750-CK | Installation

Thank You For Purchasing This XS Power Product!

We take great pride in our quality, value and performance and believe that this product will offer you trouble free operation throughout its lifetime providing you take care to follow the simple instructions.

This kit is designed to help you correctly and safely install your new XS Power or other aftermarket Powercell. The kit was designed with the installer in mind, and can be completed with very few tools and requires no wire crimping if the directions are followed correctly. Please see the steps below that will help to facilitate a fast, safe and easy installation of your new battery and cables.

Step 1 Locate a safe and secure place to mount both the front and rear fuse holders. Do not mount to, or penetrate the battery housing. Do not install the fuses until the last step. Fuses should be installed within 12" to 18" of the battery for best results.

Step 2 Before making any cuts to the positive cable, find a safe and secure place to run the cable through the firewall and to the rear of the vehicle, using the supplied grommets.

Step 3 Before making any connections, ensure the positive cable will reach from the positive battery terminal in the front, past the location of the fuse holder under the hood, through the vehicle, past the fuse holder in the rear, and finally to the positive battery terminal on the secondary battery.

Step 4 Now that the positive cable is in position, cut the wire where it intersects with each fuse holder. By making a single cut, you can strip and insert each side of your cut into the fuse holder receptacle. At this point, you should have cable connected to both ends of each fuse holder with no other connections made.

Step 5 Secure the positive cable along the length of the vehicle with the supplied cable clamps and ties. Pay special attention to stay clear of moving parts, extreme heat items, and avoid drilling near the gas tank area.

Step 6 Connect the two pre-terminated battery cables to the positive terminals of your front and rear batteries. If your front battery has standard automotive posts, you may use the supplied battery terminal clamps for easy connection.

Step 7 Locate a suitable ground connection near the battery in the rear of the vehicle. A direct chassis ground is ideal, and taking the time to sand away debris or paint before making the ground connection will give the best results.

Step 8 Connect the pre-terminated ground cable to the negative terminal of the rear battery and secure it in place with the supplied clamps and ties.

Step 9 Install the front and rear fuses and secure the fuse holder covers.

Please Use Precaution During Installation

⚠ Pay special attention to avoid drilling into or penetrating the gas tank area.

⚠ Avoid drilling into hoses, vents and other cables.

⚠ Keep cables clear of moving parts like suspension parts and the drivetrain.

⚠ Keep cables and components away from extreme heat areas like the exhaust or manifold.

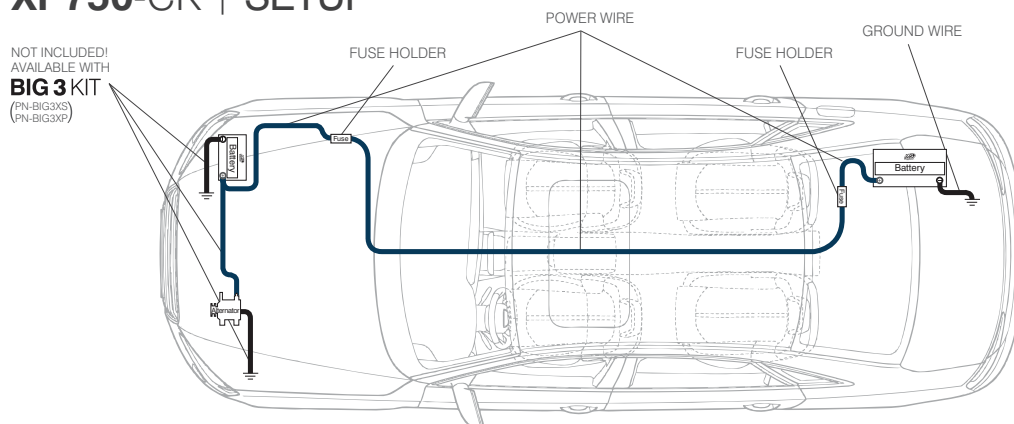
🧤 Always shield eyes, explosive gases can cause injury and blindness.

🚫 No spark, flame or smoking during installation.

🧤 Sulfuric Acid can cause severe burns and blindness.

🧴 Flush eyes immediately with water and get medical help immediately.

XP750-CK | SETUP



CAUTION! PLEASE READ!



Proper Charging is Crucial! Charge before initial use!

Be sure to read the XP Series Instruction Sheet for full instructions.

Proper Charging is crucial to the life of your XS Power battery. It is very important that the temperature of the battery remains cool with respect to the charge voltage. The chart below will help ensure proper charge voltage with different ranges of temperature.

TEMPERATURE SPECIFICATIONS

Nominal Operating Temp.	77°F (25°C)
Charge Temp. Range	14°F - 140°F (-10°C - 60°C)
Discharge Temp. Range	-4°F - 140°F (-20°C - 60°C)

CHARGE VOLTAGE REFERENCE CHART

Temperature	32°F (0°C)	50°F (10°C)	68°F (20°C)	77°F (25°C)	86°F (30°C)	104°F (40°C)
Charge Voltage	15.20	15.00	14.80	14.70	14.50	14.30
Float Voltage	14.25	14.20	13.75	13.65	13.50	13.25



Do Not Over-tighten Battery Terminals!

Whether using the automotive post adaptors, bolts or screws, the tightening torque should never exceed 8 ft-lbs max on any XS Power Battery!

Installation

- Securely fasten the battery to the vehicle. XS Power 12-volt AGM Performance batteries are designed to bolt into most automotive, truck and marine application.
- Connect the battery. Observe polarity carefully.
- If you are running a dual battery set-up, make sure that the batteries are hooked up in parallel(positive to positive and negative to negative). Parallel doubles the amperage and reserve capacities whereas series(positive to negative) would double the voltage output.

When voltage is lower than 12.6V or storage time is longer than 6 months, the battery must be recharged as described in the **Care of XS Power 12-V AGM Battery** on the instruction sheet. (see figure 1.0)

When voltage is higher than 12.6V, the battery may be installed on the vehicle without any refresh charge.

Technical Assistance

Our Customer Service Department is eager to help you with any questions or issues you may have and are available from 8:30AM to 5:30PM, Monday thru Friday at 865-688-5953. In addition, technical support is available via FAX at 865-281-9844 or by email at tech@xspowerbatteries.com

Be sure to check out our web site for additional technical and product information.

www.xspowerbatteries.com

888-4XS-POWER

International: 865-688-5953



REAL POWER UNREAL PERFORMANCE

! Proper Charging Is Crucial! Charge Before Initial use!

• It is very important that proper charging techniques be used when charging AGM batteries. AGM batteries are designed for use with AGM battery chargers with a MAXIMUM output voltage of 2.4 volts per cell (14.4v for 12v batteries and 19.2v for 16v batteries). AT NO TIME during charging should the battery be subjected to more than 2.4 volts per cell. Voltage above this will cause the battery to "gas" and once oxygen is vented it cannot be restored.

• Under-charging AGM batteries is equally damaging to the life of the battery. Take special care to ensure that the battery is properly charged before the initial use by verifying the open circuit voltage is above 2.1 volts per cell (12.6v for 12v batteries, 14.7v for 14v batteries, and 16.8v for 16v batteries). Improper charging can cause damage that is permanent and WILL VOID THE WARRANTY. If you are unsure if your charger is AGM compatible, please contact **XS Power Tech Support Department** at 865-688-5953, or email us at tech@xspowerbatteries.com for more details.

XS Power 12-Volt AGM Batteries

• The XS Power 12-Volt AGM Performance battery is a six cell, sealed-valve regulated, lead-acid battery. Sealed-valve regulated, lead-acid (VRLA) batteries are manufactured in two types, gel-cell and AGM (Absorbent Glass Mat). The key difference is how the electrolyte is suspended between the lead plates. AGM batteries such as the XS Power 12-Volt AGM Performance Batteries, use a fibrous material to suspend all liquid electrolyte against the plates. Even if the case were ruptured, no acid would leak. In contrast, gel-cell batteries suspend the electrolyte in a gel form and are not necessarily leakproof.

AGM batteries are similar in chemical function to flooded and maintenance free batteries in that they convert electrical energy into chemical reactions on the lead plates. AGM batteries differ in the amount of electrolyte used. AGM batteries have substantially less electrolyte than a typical flooded or maintenance free battery. Operating with less acid is possible in an AGM battery because each cell in the battery operates on a slight positive air pressure. This air pressure allows for the water produced during discharge to condensate and therefore recycle inside the battery. Hence almost no gasses escape the battery under proper charging conditions. If the battery were to be overcharged, the small amount of electrolytes could be "gassed" and vented by means of the safety valves from the battery. This is the main cause of premature AGM battery failure and therefore should be avoided. The cells are compressed before insertion into the case, which increases performance and makes the battery extremely vibration resistant. The reduced acid content of the battery allows for additional plates and therefore additional performance in an AGM design. XS Power is using this unsurpassed technology to bring high performance to the 12-Volt audio, motorcycle, marine, commercial and automotive markets.

XS Power Cell Specifications	Model Number	Weight lbs.	Weight kgs.	Dimensions: inch			MAX Amps	RC	Ah C/20
				Length	Width	*Height			
	XP750	14.5	6.5	7.13	3.03	6.57	750A	28	22Ah
	XP950	24.5	11.1	7.68	5.12	6.61	950A	50	35Ah
	XP2000	52	23.6	10.2	6.54	8.46	2000A	150	80Ah
	XP2500	66	30	12	6.65	8.46	2500A	185	100Ah
	XP3000	73	33	13	6.8	8.65	3000A	240	120Ah

*excluding terminals

TEMPERATURE SPECIFICATIONS

Nominal Operating Temp.	77°F (25°C)
Charge Temp. Range	14°F - 140°F (-10°C - 60°C)
Discharge Temp. Range	-4°F - 140°F (-20°C - 60°C)

Proper Charging is crucial to the life of your XS Power battery. It is very important that the temperature of the battery remains cool with respect to the charge voltage. The chart below will help ensure proper charge voltage with different ranges of temperature.

CHARGE VOLTAGE REFERENCE CHART

Temperature	32°F (0°C)	50°F (10°C)	68°F (20°C)	77°F (25°C)	86°F (30°C)	104°F (40°C)
Charge Voltage	15.20	15.00	14.80	14.70	14.50	14.30
Float Voltage	14.25	14.20	13.75	13.65	13.50	13.25

! DO NOT OPEN VENT VALVES!



WARNING/SAFETY Precautions

Warning: Lead-acid batteries of all designs produce explosive gasses. Sparks of any kind could cause a battery to explode.

Therefore:

- Never smoke when around a battery.
- Never weld or otherwise produce sparks around a battery.
- Do not allow tools or other metal objects to fall across the battery terminals- this will short circuit the battery.
- Always wear protective clothing and eye wear when servicing a battery.
- Sulfuric acid can cause severe burns. If acid comes into contact with your skin flush with water immediately. If acid comes in contact with your eyes, flush immediately with water for fifteen minutes and seek medical help promptly.
- Neutralize acid spills with baking soda and water.
- Keep all batteries out of reach of children.
- California Proposition 65 Warning: Batteries, battery posts, terminals, and related accessories contain lead and lead compounds, and other chemicals known to the State of California to cause cancer, birth defects, and reproductive harm. **Wash hands after handling!**

Caution:



Do not overcharge this battery. Use only a voltage limited automatic battery charger set at 14.4VDC ± .3VDC maximum.



This is a sealed battery. Do not attempt to remove the vent caps under the top label.



Recycle used batteries in accordance with local, state, and federal law at an authorized recycling center.



Battery must be recycled!

Care of XS Power 12-V AGM Battery

- Charge voltage is not to exceed 14.4V total for extended periods of time.(5min. max)*

- The charger used MUST HAVE and automatic shut-off.

*Some AGM chargers may climb to a maximum voltage of 15.5VDC for a short period of time(usually less than 5min.) but will resume charging at or near 14.4VDC ± .3VDC for the duration of the charge cycle. If you are unsure of your chargers capabilities, contact the manufacturer of the charger

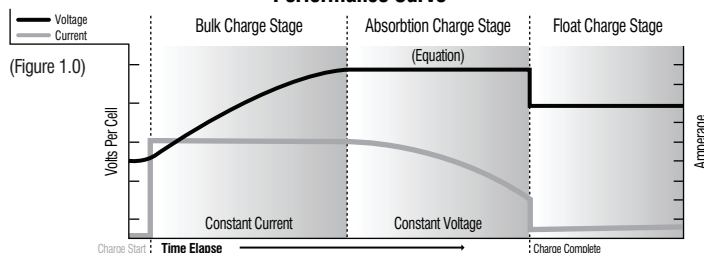
Exceeding 14.4VDC ± .3VDC will cause the battery to "gas" and once the oxygen is released from the battery there is no way to restore it. The results will be reduced capacity and battery life and those results are permanent. This type of damage will cause the battery to show a proper open circuit voltage yet will not accept a charge and will become excessively hot during charging. Damage of this nature will void the warranty. Therefore ensure that your battery charger will not exceed 14.4VDC ± .3VDC at any time during the charging cycle. For ease of use, we recommend recharging the battery with an XS Power IntelliCHARGER p/n 1005, as it is a totally automatic 3 stage microprocessor controlled battery charger with float charging capability. This battery charger prevents overcharging, maintains proper performance and can be left on the battery indefinitely during non-use periods.

It is very important to **NEVER USE** a charger designed for flooded 12V batteries, not even once with a **XS Power 12V AGM battery**. Furthermore, we recommend that the battery be disconnected from the rest of the vehicle's electrical system during charging.

"Off Season" Maintenance

All lead-acid batteries, both flooded and AGM designs are subject to self-discharging and this self-discharge rate is very much affected by ambient temperature in which the batteries are stored. Higher ambient temperatures will discharge the battery faster. Cool storage for batteries is the best. When voltage is lower than 12.6V or storing time is longer than 6 months, the battery must be recharged as described in the Performance Curve diagram to the left.

Performance Curve



WARRANTY 2-YR



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Thank you for purchasing this XS Power product!

We take great pride in our quality, value and performance and believe that this product will offer you trouble free operation throughout it's lifetime providing you take care to follow the simple instructions.

If you experience any problems with your product the warranty details are listed below.

LIMITED WARRANTY

a) XS Power provides a two year warranty from the date of purchase, to the original purchaser. This warranty covers manufacturing defects in material and workmanship only.

b) XS Power does not cover damage or failure caused by abuse, misuse, faulty installation, improper maintenance, or any repairs not carried out by XS Power.

c) There will be no obligations or liability on the part of XS Power for consequential damages arising from the use of the product or any indirect damages with respect to loss of property, revenue, or costs for removal, installation, or re-installation.

d) For warranty service, the product must be reported to XS Power to receive a unique RGA number (return goods authorization) and at that time you will be advised of where to send the faulty product.

e) All shipping charges for returns should be prepaid. If the requested repairs or service are within the terms of this warranty then the item will be returned to you on completion without any charge. The unit must be in its original packaging with any original accessories. XS Power will not be responsible or accept any liabilities for any loss or damage to addition items which are sent with returned product.

f) Provide a copy of receipt.

g) If the product is not covered under the terms of this warranty. XS Power will advise you of the costs to carry out any repairs necessary and the unit will be shipped to you on receipt of payment for the work including the return freight charges.

h) Under normal circumstance, we try to ensure we carry out warranty repairs within 5 working days; nevertheless, please allow 2 to 4 weeks for return of your product. We cannot be held responsible for delays in shipping.

Please take the time to complete your details below and return via Fax or Mail.

(cut here)

Title (ex. Mr/Miss) First Name M. Initial Last Name

Address (house name/number & street)

Apt./Flat #

City

State

or Providence

Country

Zip or Postal Code

Telephone # (inc. area code)

E-mail

Battery Model #

Battery Serial #

Date of Purchase

Place of Purchase

What brand charger do you use?

Model No.

Where do you compete?

Sanctioning Body

Class