



## OWNERS MANUAL

Models: XP400, XP500, XP750C

INSTANT POWER™

Jump Starter and DC Power Source



XP400



XP500



XP750C

**PLEASE SAVE THIS OWNER'S MANUAL AND READ BEFORE EACH USE.**

This manual will explain how to use the Instant Power safely and effectively.  
Please read and follow these instructions and precautions carefully.

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## IMPORTANT SAFETY INSTRUCTIONS

### WARNING – RISK OF EXPLOSIVE GASES

WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE INSTANT POWER.

**To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of a battery. Review cautionary marking on these products and on the engine.**

**WARNING:** Pursuant to California Proposition 65, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

- Keep out of reach of children.
- Do not disassemble the Instant Power. Take it to a qualified service professional if service or repair is required. Incorrect assembly may result in fire or electrical shock.
- Do not use the Instant Power to jump a vehicle while charging the internal battery.
- Do not recharge the Instant Power with a damaged extension cord.
- The Instant Power gets hot during charging and must have proper ventilation.
- Do not set the Instant Power on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
- Place the Instant Power as far away from the battery being jumped as the cables will permit.
- Do not expose the Instant Power to rain or snow.
- Never place the Instant Power directly above battery being jumped.
- To prevent arcing, never allow the clamps to touch together or to contact the same piece of metal.
- Use of an attachment not recommended or sold by Schumacher® Electric Corporation may result in damage to the unit or personal injury.
- Never operate the Instant Power if it is damaged.
- If someone else uses the Instant Power, ensure they are well informed on how to use it safely, and have read and understood the operating instructions.
- The Instant Power is NOT designed to be installed as a replacement for a vehicle battery.
- Use ONLY on vehicles, boats and garden tractors powered with a 12V DC battery system.
- If the engine fails to start after the recommended number of attempts, disconnect the unit and look for other problems that may need to be corrected.
- Use the Instant Power for jump starting lead-acid batteries ONLY. Do not use for dry cell batteries that are commonly used with home appliances.

### PERSONAL SAFETY PRECAUTIONS

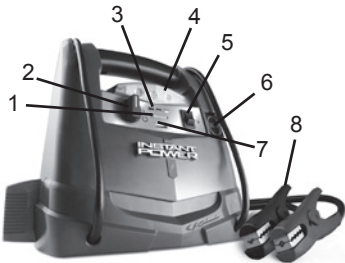
- Wear complete eye and clothing protection when working near lead-acid batteries. Always have someone nearby for help.
- Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin, or clothing. Wash immediately with soap and water and seek medical attention.
- If battery acid comes in contact with eyes, flush eyes immediately for a minimum 10 minutes and get medical attention.
- Neutralize any acid spills thoroughly with baking soda before attempting to clean up.
- Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.

## FEATURES



### XP400

1. Battery status button
2. Battery status indicators
3. Built-in work light
4. Worklight ON/OFF switch
5. 12V DC power outlet
6. Battery clips



### XP500

1. Battery status button
2. Rotary switch for USB and jump starter
3. Battery status indicators
4. Built-in work light
5. Worklight ON/OFF switch
6. 12V DC power outlet
7. USB port
8. Battery clips



### XP750C

1. USB port
2. Battery status button
3. Rotary switch for USB and jump starter
4. Battery status indicators
5. Built-in work light
6. 12V DC power outlet
7. Worklight ON/OFF switch
8. Battery clips
9. Air compressor hose
10. Air compressor gauge
11. Air compressor ON/OFF switch
12. Internal battery charger plug
13. Air compressor hose wrap cleats
14. Air compressor adapters and storage bag



## CHARGING THE INTERNAL BATTERY OF THE INSTANT POWER

**IMPORTANT!** CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 30 DAYS, TO KEEP THE INSTANT POWER'S INTERNAL BATTERY FULLY CHARGED AND PROLONG BATTERY LIFE.

### CHECKING THE LEVEL OF THE INTERNAL BATTERY

Press the **Battery Status** button on the front of the unit. The LED lights will indicate the current charge level as follows:

**RED** – 50% or lower charge; immediately charge the unit.

**YELLOW** – 50% and higher charge.

**GREEN** – The battery is fully charged.

### CHARGING THE INTERNAL BATTERY

Charge the internal battery for the Instant Power using an extension cord (not included).

**NOTE:** Use of an improper extension cord could result in a risk of fire and electric shock.

1. Flip the AC connector on the back of the unit up and plug in an 18 AWG or larger extension cord.
2. Plug the extension cord into a 120V AC electrical wall outlet.
3. The **RED LED** will light, indicating charging.
4. The **GREEN LED** will light when the battery is fully charged. This could take up to 72 hours. The charger will automatically go into maintain mode and maintain the battery at full charge without damaging it.

5. When charging is complete, unplug the extension cord from the wall outlet and the back of the unit.

### CHARGING THE INTERNAL BATTERY WHILE DRIVING

You may also charge the internal battery while driving, using a male-to-male charger cable (part number 94500109 – not included).

**IMPORTANT:** DO NOT CHARGE INTERNAL BATTERY FOR MORE THAN 30 MINUTES OR LEAVE THE BATTERY UNATTENDED. IT COULD EXPLODE, CAUSING PROPERTY DAMAGE OR PERSONAL INJURY.

1. Make sure the car is running.
2. Insert one end of the accessory cable into the 12V DC power outlet.
3. Insert the other end of the accessory cable into the vehicle's accessory outlet (lighter socket).

**NOTE:** The **RED** and the **GREEN LEDs** do not operate during this method of charging. Using this method to charge the battery overrides the maintain mode and the battery can be overcharged.

4. Monitor the progress of the charge by pressing the **Battery Status** button on the front of the unit. When the battery is fully charged, disconnect the accessory cable from the Instant Power, then from the lighter socket of the vehicle.

**NOTE:** Completely disconnect the charger cable when the engine is not running.

## USING THE INSTANT POWER

**IMPORTANT:** Using the Engine Start feature without a battery installed in the vehicle will damage the vehicle's electrical system.

1. Turn the ignition OFF.
2. Lay the DC cables away from any fan blades, belts, pulleys and other moving parts.
3. For a negative-ground vehicle (as in most vehicles), connect the Instant Power's POSITIVE (RED) clamp to the POSITIVE (POS, P, +) battery post. Next, connect the NEGATIVE (BLACK) clamp to the vehicle chassis or engine block, away from the battery.
4. For a positive-ground vehicle, connect the Instant Power's NEGATIVE (BLACK) clamp to the NEGATIVE (NEG, N, -) battery post. Next, connect the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery.
5. Turn the switch to the ON position (does not apply to the XP400). Crank the engine for no more than 8 seconds. If the engine does not start, wait 2 minutes before cranking again.
6. After the engine starts, turn the switch to the OFF position and remove the Instant Power from the battery.
7. Charge the Instant Power.

## USING THE USB PORT (Models XP500 and XP750C)

The USB port provides up to 500mA at 5V DC.

1. Ensure the battery clamps are securely clipped on the storage holders.
2. Turn the Instant Power ON.
3. Plug your device into the USB port.
4. When finished using the USB port, turn the switch to the OFF position.
5. Charge the Instant Power.

## USING THE WORK LIGHT

The work light is controlled by a sliding ON/OFF switch located on the front of the Instant Power. Make sure the lamp is turned OFF when the unit is being recharged or stored.

Position the Instant Power on a flat, stable surface near the intended work area.

Ensure the battery clamps are securely clipped on the storage holders.

## POWERING A 12V DC DEVICE

The Instant Power is a power source for all 12V DC accessories that are equipped with a 12V accessory plug. Use it for power outages and on fishing or camping trips.

**NOTE:** Do not power a 12V device with the Instant Power while charging the internal battery.

1. Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC accessory outlet.
2. Open the protective cover of the DC power outlet on the Instant Power.
3. Plug the 12V DC device into the DC power outlet and turn on the 12V DC device (if required).
4. When finished, turn off the DC device (if required) and unplug from the DC power outlet.

**CAUTION:** Do not use the Instant Power to run appliances that draw more than 15A DC.

**NOTE:** Extended operation of a 12V DC device may result in excessive battery drain. Recharge the Instant Power immediately after unplugging the 12V DC device.

## Estimated run-times

APPLIANCE TYPE	EST WATTAGE	XP400	XP500	XP750C
Cell phone	4 watts	13 hrs	19 hrs	34 hrs
Fluorescent light	4 watts	15 hrs	21 hrs	34 hrs
Radios, fans	9 watts	6.7 hrs	9.3 hrs	14 hrs
Depth finder	9 watts	6.7 hrs	9.3 hrs	14 hrs
Camcorder	15 watts	4 hrs	5.6 hrs	7 hrs
Electrical tool	24 watts	2.5 hrs	3.5 hrs	5 hrs
Electric cooler	48 watts	1.3 hrs	1.8 hrs	2 hours
Car vacuum, air compressor	80 watts	0.8 hrs	1.1 hrs	1.8 hrs

**NOTE:** Actual time may vary. Times are based on the internal battery being fully charged.

## USING THE AIR COMPRESSOR (Model XP750C)

**WARNING.** Read the instructions of the product being inflated before using the compressor. Avoid overinflation; do not exceed the manufacturer's recommended pressures. Do not leave the air compressor unattended during use.

**NOTE:** Before you use the compressor for the first time, you must install the compressor hose wrap cleats. To install: press each cleat into its corresponding mounting hole on the back of the jump starter until it clicks into place.

Wrap the compressor hose around these cleats when it is not being used.

1. Remove the air compressor hose from the storage cleats.
2. Connect the adaptor to the valve stem and close the thumb latch. If necessary, use one of the additional adaptors.
3. Turn ON the inflator power switch and inflate to the desired pressure or fullness.
4. When the desired pressure is reached, put the inflator power switch to OFF, open the thumb latch and remove the connector from the valve stem.
5. Allow unit to cool.
6. Recharge the unit before storing.

**NOTE:** The air compressor is rated for 150 PSI.

## Estimated time for inflating

Vehicle tires 13-16"	6-24 minutes
Bike tires	1-3 minutes
Sports balls	30 seconds

These times are approximate. Use the air compressor gauge to ensure the proper pressure has been reached. Do not overinflate.

## MAINTENANCE AND CARE

- Clean the clips and the case each time you are finished using it.
- Recharge the unit once a month when not in use.
- Store clips on their support posts, to ensure they do not come into contact with any metallic surface.
- Never completely discharge the internal battery.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REASON/SOLUTION
The Instant Power won't jump start my car.	<p>Clips are not making a good connection to the battery.</p> <p>Connections are reversed.</p> <p>The Instant Power's battery is not charged.</p> <p>The vehicle's battery is defective.</p> <p>Models XP500 and XP750C: the Instant Power is not turned on.</p>	<p>Check for poor connection to battery and frame. Make sure connection points are clean.</p> <p>Disconnect the Instant Power and reverse the clips.</p> <p>Press the Battery Status button on the front of the unit. The LEDs will indicate the status of charge.</p> <p>Have the battery checked.</p> <p>Turn the Instant Power ON/OFF switch to the ON position.</p>
The Instant Power won't power my 12V device.	<p>The 12V device is not turned on.</p> <p>The Instant Power's battery is not charged.</p> <p>The 12V device draws more than 15A or has a short circuit.</p>	<p>Turn on the 12V device.</p> <p>Check the battery charge status by pressing the Battery Status button.</p> <p>Disconnect the 12V device. The internal breaker will automatically reset after a minute or two. Try the 12V device again.</p>
The battery in the Instant Power won't hold a charge.	The battery is bad (will not accept a charge).	Have the battery checked.
The compressor shuts off.	The compressor is overheated.	Allow to cool for a few minutes, then try again.

## SPECIFICATIONS

### XP400

Internal battery type	Sealed, maintenance-free, AGM, lead-acid
Nominal voltage	12V DC
12V DC power outlet	15A
Booster cables	8 AWG, 18" long
Weight	7 lbs.

### XP500

Internal battery type	Sealed, maintenance-free, AGM, lead-acid
Nominal voltage	12V DC
12V DC power outlet	15A
Booster cables	8 AWG, 18" long
Weight	8.2 lbs.

### XP750C

Internal battery type	Sealed, maintenance-free, AGM, lead-acid
Nominal voltage	12V DC
12V DC power outlet	15A
Booster cables	8 AWG, 20.5" long
Weight	15.73 lbs.

## REPLACEMENT PARTS/ACCESSORIES

Male-to-male accessory cable .....94500109