

OPERATOR'S MANUAL

DieHard®

Portable Power 950

Jump Starter and DC Power Source

Model No.
200.71987



CAUTION:

Read all Safety Rules and Operating Instructions,
and follow them with each use of this product.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

00-99-000864/0808

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DIEHARD ONE-YEAR FULL WARRANTY

When operated and maintained according to all supplied instructions, if this DieHard product fails due to a defect in material or workmanship within one year from the date of purchase, return it to any Sears store or other DieHard outlet in the United States for free replacement.

This warranty does not include light bulbs, which are expendable parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Hoffman Estates, IL 60179

FOR CUSTOMER ASSISTANCE OR REPLACEMENT PARTS,
CALL TOLL-FREE BETWEEN 7 AM TO 4:30 PM CT
MONDAY THROUGH FRIDAY: 1-800-SEARS-64 (1-800-732-7764)



CONTAINS SEALED NON-SPILLABLE LEAD-ACID BATTERY. MUST BE DISPOSED OF PROPERLY.

WARNING: Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.

IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE

IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

1. IMPORTANT SAFETY INSTRUCTIONS

- 1.1 Charge the 950 internal battery immediately upon purchase, every 30 days and after every use.
- 1.2 Use in a well ventilated space.
- 1.3 Contains a sealed, non-spillable lead-acid battery. Must be disposed of properly.
- 1.4 **WARNING:** Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.
- 1.5 **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.
- 1.6 **WARNING:** Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use. Always wear safety glasses to protect your eyes during use.

2. DIEHARD PORTABLE POWER 950 JUMP-STARTER/DC POWER SOURCE FEATURES



1. JUMP START ON/OFF Switch. Turn on to activate clamps and USB.
2. Digital Display percentage of charge
3. Plastic lens cover
4. Two, Light bulbs
5. Two, 12V DC power outlets
6. Rear charger plug (not shown)
7. Clamps and Cables
8. USB Port
9. Power Switch (LIGHTS, OFF, and DISPLAY). This power switch turns on the light or the internal battery status digital display.
10. Wall charger

3. CHARGING THE INTERNAL BATTERY

IMPORTANT:

- **CHARGE IMMEDIATELY AFTER PURCHASE**
- **KEEP FULLY CHARGED.**

This Portable Power 950 comes with a sealed, non-spillable DieHard maintenance-free lead-acid battery. This internal battery is specifically designed to deliver high power jump-starting as well as repetitive deep cycling performance.

To charge the Portable Power 950 internal battery:

- 3.1 Check the internal battery's charge level by pressing the switch marked DISPLAY. The Digital Display will show the battery's percentage. Charge if under 100%

NOTE: Internal battery's percentage is most accurate when the Portable Power 950 has been disconnected from all devices and charging sources for 1 - 24 hours.

- 3.2 To charge, plug the (external) wall charger cord into the socket on the back of the 950. Then, plug the wall charger into a 120V AC source.

CAUTION: Operating the Portable Power 950 while the internal battery is being charged may cause permanent damage to the unit.

- 3.3 While the 950 is charging, the battery's percentage of charge will be displayed. When the internal battery is fully charged, the display will show 100. Complete charging may take up to 48 hours. The 950 is then ready to use.
- 3.4 Once the battery is fully charged, the internal charging circuitry automatically switches to float-mode monitoring, which keeps the battery fully charged without overcharging.

The internal battery may also be charged while you drive using the male-to-male accessory cable (available separately, see "Accessories and Replacement Parts" section of this manual). Insert one end of the accessory cable into the 12V DC power outlet and the other end into the vehicle's accessory outlet (lighter socket). Completely disconnect the accessory cable when the engine is not running.

4. JUMP-STARTING A VEHICLE ENGINE

Use in a well-ventilated area. Keep hands, hair, clothing and jewelry clear of fan blades, belts, pulleys and other parts that may cause injury.

- 4.1 Turn ignition off before making cable connections.
- 4.2 Place the 950 on a flat, stable surface near the vehicle battery and away from moving engine parts.
- 4.3 Connect the red clamp to the positive (+) terminal of the vehicle battery.

NOTE: In the rare case of jump-starting a vehicle that has a positive-grounded vehicle electrical system, connect the black clamp to the negative terminal of the vehicle battery. Then connect the red clamp to an unpainted and unmoving part of the vehicle chassis or engine block. If you are unsure of the nature of the vehicle's electrical grounding system, check the owner's manual of the vehicle or call the Customer Technical Assistance number: 1-800-SEARS-64.

- 4.4 Connect the black clamp to an unpainted and unmoving part of the vehicle chassis or engine block. Do not connect to the carburetor, fuel lines or sheet-metal body parts. The Digital Display displays the vehicle's voltage.

CAUTION: If you have connected the clamps backwards, an audio alarm will sound. DO NOT turn the ON/OFF switch to the ON position. This could cause serious damage. Reverse the connections and the audio alarm will stop.

- 4.5 Turn ON the JUMP START ON/OFF switch and then turn key and crank the engine. If the engine does not start within 5-8 seconds, stop cranking and wait at least 1 minute before attempting to start vehicle again. This permits the battery to cool down.
- 4.6 After the engine starts, make sure to turn OFF the Jump Start switch. Then disconnect the black clamp (-) and then the red clamp (+) in that order.
- 4.7 Recharge the 950 as soon as possible after use.

CAUTION: To prevent sparking while the 950 jump start switch is in the ON position, NEVER allow the clamps to touch together or to contact the same piece of metal. Never attempt to charge a frozen battery.

5. DIGITAL DISPLAY FUNCTIONS

- 5.1 To check the 950's internal battery status, push the POWER switch on the front of the 950 to the DISPLAY position. The display will show the charge percentage of the internal battery.
- 5.2 When connected to the vehicle, the display shows the vehicle's battery voltage. When connected and in the ON position, the display shows the equalized voltage between the vehicle's battery and internal battery. If the display button is pressed, the battery percentage is shown (instead of voltage).

6. POWERING A 12V DC DEVICE

The Portable Power 950 is a power source for all 12 volt DC accessories that are equipped with a 12V accessory plug. The DC accessory outlet has a 15-amp automatic overload protection circuit breaker. The breaker will automatically reset after an overload occurs.

6.1 To Operate a 12V DC Device:

- Open the protective cover of the DC power outlet on the front panel of the Portable Power 950.
- Plug the 12V DC device into the DC power outlet, and turn the 12V DC device "ON" (if required).
- If the 12V DC device draws more than 15A, the internal circuit breaker of the Portable Power 950 will momentarily disconnect power to the device. If this occurs, unplug the device and the circuit breaker will automatically reset after several seconds.
- The DC power outlet is internally wired directly to the internal battery. Extended operation of a 12V DC device may result in excessive battery drain. Recharge immediately after unplugging the device.

12V DC Electrical Device Run-Time Chart

Appliance Type	Estimated Power	Estimated Time*
Fluorescent Lights, Cellular Phones	4 Watts	40 Hours
Radios, Depth Finders, Fans	9 Watts	21 Hours
Camcorders, DVD Players, Spotlights	15 Watts	12 Hours
Electrical Tools, Bilge Pumps	24 Watts	7 Hours
Electric Coolers	48 Watts	3 Hours
Air Compressors, Car Vacuums	80 Watts	1.5 Hour

*NOTE: Estimated run-times. Actual time may vary. Times are based on the internal battery being new, fully charged and operated at room temperature.

7. USING THE USB PORT

The USB port on the 950 provides up to 500mA at 5VDC

- 7.1 Turn the JUMP START ON/OFF switch to the ON position.
- 7.2 Plug the device into the USB port on the front panel of the 950.
- 7.3 Turn USB device ON.
- 7.4 Reverse these steps when finished using the USB port.

8. USING THE BUILT-IN LIGHT

- 8.1 Position the 950 on a flat, stable surface near the intended work area.
- 8.2 Push the power switch to the LIGHT position. The light will turn on and illuminate your work area.

NOTE: With a fully charged internal battery, the built-in light should provide 18 to 30 hours of continuous, useful light.

- 8.3 Push power switch to the OFF position when work is completed.
- 8.4 Charge the 950 as soon as possible after using the built-in light.

9. INTERNAL BATTERY REPLACEMENT

The 950 is equipped with a built in door, located on the back of the unit, to make replacing the internal battery easy and efficient.

To order a replacement battery, call: 1-800-SEARS-64

- 9.1 Be sure that all switches are in the OFF position.
- 9.2 Remove clamps from storage pegs on the back of the 950.
- 9.3 Remove eight screws from the door.
- 9.4 Slide door out.

- 9.5 Remove the negative (first) and positive nuts and bolts securing the cable to the battery.
- 9.6 Push cables to the side and carefully slide battery out of the 950.
- 9.7 Reverse steps for assembly. Make sure that the nuts and bolts securing the cables are tight.

10. STORAGE AND MAINTENANCE

IMPORTANT:

- **CHARGE IMMEDIATELY AFTER PURCHASE**
- **KEEP FULLY CHARGED.**

Charge the 950 internal battery immediately upon purchase, every 30 days and after every use.

All batteries are affected by temperature. The ideal storage temperature is between 40 and 70 degrees Fahrenheit. The internal battery will gradually self-discharge (lose power) over time, and more quickly in warm environments. Leaving the battery in a discharged state may result in permanent battery damage. To ensure satisfactory performance and avoid permanent damage, charge the internal battery every month.

When the JUMP START ON/OFF switch is ON, the clamps are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always keep the clamps on the storage holders and the JUMP START ON/OFF switch in the OFF position when not using it to jump start a vehicle.

10.1 Replacing the built-in light

To replace the built-in light bulb:

1. Turn the light off.
2. Insert a standard (flat-blade) screwdriver into one of the two slots along the bottom of the plastic lens and GENTLY pop the lens out. Repeat for the other side.
3. Insert a replacement bulb of the same type and rating, and twist clockwise one quarter-turn to screw in the new bulb.
4. Replace the lens cover.
5. Test the light by switching the light on and off.

10.2 Customer Technical Assistance

Customer technical assistance is available Monday-Friday, 7 am to 4:30 pm Central Time by phoning 1-800-SEARS-64.

11. SPECIFICATIONS

Internal Battery Type	DieHard Maintenance-free AGM Lead-acid
Nominal Voltage	12v DC
Capacity	18 Ah
DC Power Outlet (Max. Continuous Load)	15A With Automatic Circuit Breaker Reset
Built-in Light Bulb (Replaceable)	5w/12v DC (Base type BA9S)
Jumper Cables	4-gauge AWG, 24 Inches
Dimensions (H x W x D)	12 H x 11 x 10.5 Inches
Product Weight	18.9 Lbs.

12. ACCESSORIES AND REPLACEMENT PARTS

Parts and customer technical assistance is available Monday-Friday, 7 am to 4:30 pm Central Time at 1-800-SEARS-64.

Male-to-Male Accessory Cable: 38-99-000834 (Use for charging Portable Power 950 from a vehicle's 12V accessory outlet.)

Replacement Light Bulb: 0000000722

Lens Cover: 3799003820

Wall Charger: 93026687

Replacement Battery Kit: 2299001765