

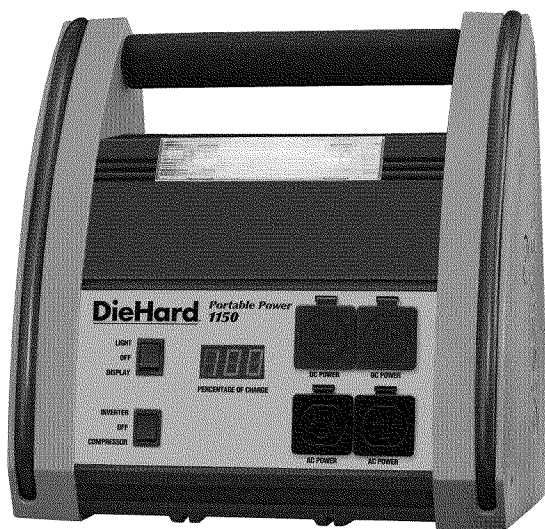
OWNER'S MANUAL

DieHard®

Portable Power 1150

Jump Starter/DC Power Source
Air Compressor, Inflator and AC Power

Model No.
200.71488



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.

00-99-000525/1205

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Please read this Owner's Manual before using your Portable Power 1150.

For information about troubleshooting, call toll-free from anywhere in the U.S.A. 7 am to 4:30 pm Central Time Monday through Friday. **1-800-SEARS-64 (1-800-732-7764).**

WARRANTY

One-Year Full Warranty on DieHard Portable Power 1150 (excluding bulbs)

If this Portable Power 1150 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 the 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., Dept. 817WA, Hoffman Estates, IL 60179

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

CHARGE THE 1150 BEFORE THE FIRST USE AND AFTER EVERY USE THEREAFTER.

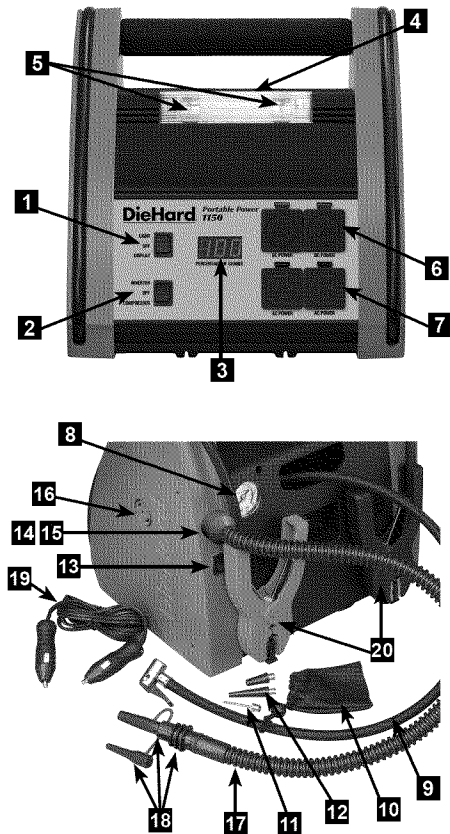
USE IN A WELL-VENTILATED SPACE.

**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.

WARNING: Handling the cord on this product or cords associated with accessories sold with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

DIEHARD PORTABLE POWER 1150 JUMP-STARTER/DC POWER SOURCE AIR COMPRESSOR, INFLATOR AND AC POWER



1. Light/Display switch. This switch turns on the light or the internal battery status digital display.
2. Inverter/Compressor switch. This switch turns the inverter and air compressor on and off.
3. Digital Display – indicates internal and vehicle's battery percentage of charge and displays a code when improperly connected to battery.
4. Plastic lens cover
5. Two, light bulbs
6. Two, 12V DC power outlets
7. Two, 110V AC household power outlets
8. Air compressor gauge
9. Air compressor hose
10. Air compressor accessory bag
11. Air compressor ball inflation adapter
12. Two, air compressor miscellaneous inflation adapters
13. ON/OFF inflator/deflator switch
14. High-flow inflator outlet
15. Inflator/deflator hose end adapter
16. High-flow deflator outlet
17. Inflator/deflator hose
18. Three, Inflator/deflator hose device adapters
19. Male-to-male 12V charging connector
20. Two, cables with clamps

OPERATING INSTRUCTIONS

WARNING: Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use. Always shield eyes during use and wear safety glasses.

JUMP-STARTING A VEHICLE ENGINE

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

1. Turn ignition off before making cable connections.
2. Rest the 1150 on a flat, stable surface near the vehicle battery and away from moving engine parts.
3. Connect the red clamp to the positive terminal of the vehicle battery.
4. Connect the black clamp to an unpainted and unmoving part of the vehicle chassis or engine block.

CAUTION: If you have connected the clamps backwards, an audible alarm will sound. Reverse the connections and the audible alarm will stop.

NOTE: If after following steps 1-4 the display remains blank, check for a good connection on both jaws of the clamps. If the display still doesn't light, hold down the display switch for 5 seconds. If the display doesn't blink, the external battery voltage is too low to be detected by the 1150. This means your battery power is less than a half-a-volt (or 0.5V) and needs to be charged for the 1150 to jump start it.

5. Digital Display: The charge percentage of the vehicle's battery will be displayed for 5 seconds. The display will blink to indicate proper connection and will then show the charge percentage of both batteries combined (1150 and vehicle). If the combined percentage is below 35%, the 1150 needs charging. If the combined percentage is above 35%, proceed to #6.

6. Turn the key and crank the engine. The display will count down from 10 seconds. If the engine does not start, wait at least 1 minute before attempting to crank the vehicle again. This permits the battery and relay to cool down. Only attempt to crank the engine when the display is blinking (relays are engaged).
7. Once the engine starts, the 1150 will automatically shut off 10 seconds after the engine starts. This eliminates the problem of sparking when removing the clamps. Remove and store the clamps on the ears located on the back of the case.
8. Charge the 1150 as soon as possible after jump-starting.

CAUTION: To prevent sparking, NEVER allow the clamps to touch together or to contact the same piece of metal. And, never attempt to charge a frozen 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.

POWERING A 12V DC DEVICE

The Portable Power 1150 is a power source for all 12 volt DC accessories that are equipped with a 12V accessory plug. Use no more than 15 amps per outlet. If an overload occurs, the fuse will blow. To replace, contact a qualified service technician.

NOTE: When powering two-12 volt DC accessories, the combined amps should not exceed 30 amps.

To operate a 12V DC device:

1. Open the protective cover of the DC power outlet on the front panel of the Portable Power 1150.
2. Plug the 12V DC device into the DC power outlet, and turn on the 12V DC device (if required).
3. If both 12V DC devices combined draw more than 30 amps, the fuse will

blow. To replace, contact a qualified service technician.

4. Charge the Portable Power 1150 as soon as possible after each use.

Because 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.

12V DC ELECTRICAL DEVICE EXAMPLE RUN-TIME CHART

<u>Appliance Type</u>	<u>Estimated Wattage</u>	<u>Estimated Time*</u>
Fluorescent Lights, Cellular Phones	4 Watts	50 Hours
Radios, Depth Finders, Fans	9 Watts	25 Hours
Camcorders, DVD Players, Spotlights	15 Watts	13 Hours
Electrical Tools, Bilge Pumps	24 Watts	7.3 Hours
Electric Coolers	48 Watts	4.5 Hours
Air Compressors, Car Vacuums	80 Watts	2 Hours

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

AIR COMPRESSOR, INFLATOR AND DEFLATOR

USING THE AIR COMPRESSOR

CAUTION: Read instructions of the product being inflated before using the compressor. Avoid over inflation, do not exceed the manufacturer's recommended pressures. Do not leave the air compressor unattended during use.

1. Remove the air compressor hose from the storage compartment in the back of the Portable Power 1150.
2. Attach the air compressor hose to the product or accessory to be inflated by flipping down the lever.
3. Push the air compressor switch to the ON position and inflate product.
4. When the product is inflated to the proper air pressure, push the compressor switch to the OFF position and remove the hose.
5. Do not run for more than 10 minutes maximum at a time. If you do, allow the 1150 to cool down for 10 minutes before using again.

NOTE: If the compressor overheats, the built-in thermal protection will turn the unit off. Wait a few minutes and it will automatically restart.

NOTE: The air compressor is rated for 150 PSI.

ESTIMATED TIME FOR INFLATING

Vehicle Tires 13" to 16"	6 to 24 minutes
Bike Tire	1 to 3 minutes
Sports Balls	30 seconds

Use the air compressor gauge to ensure the proper pressure has been reached. Do not over inflate.

USING THE INFLATOR

CAUTION: Read instructions of the product being inflated before using the inflator. Avoid over inflation, do not exceed the manufacturer's recommended pressures. Do not leave the inflator unattended during use.

1. Attach the corrugated hose with end adapter to the high-flow inflator outlet located directly above the inflator ON / OFF switch on the back of the 1150.
2. The main accessory nozzle attached to the corrugated hose accommodates up to 4 sizes. If another size is needed an additional nozzle can be attached to the end of the main accessory nozzle.
3. Insert the nozzle into the product to be inflated.
4. Push the inflator switch to the ON position and inflate product.
5. When product is inflated to the desired level, push the inflator switch to the OFF position and remove the nozzle.

ESTIMATED TIME FOR INFLATING*

24" Beach Ball	1 to 3 minutes
Pool Raft	4 to 6 minutes
Queen-size air mattress	4 to 8 minutes
2-Person Boat	8 to 10 minutes

*Times may vary depending on size and product features.

USING THE DEFLATOR

1. Attach the corrugated hose with the end adapter to the high-flow deflator outlet which is located on the right side of the 1150.
2. The main accessory nozzle attached to the corrugated hose accommodates up to 4 sizes. If another size is needed an additional nozzle can be attached to the end of the main accessory nozzle.
3. Insert the nozzle into the item to be deflated.
4. Push the inflator switch to the ON position and deflate item.
5. When product is deflated to the desired level, push the inflator switch to the OFF position and remove the nozzle.

USING THE BUILT-IN LIGHT

1. Position the 1150 on a flat, stable surface near the intended work area.
2. Push the Light/Display switch to the LIGHT position. The light will turn on and illuminate your work area.
3. Push the Light/Display switch to the OFF position when work is completed.
4. Charge the 1150 as soon as possible after using the built-in light.

NOTE: With a fully charged internal battery, the built-in light should provide 18 to 26 hours of continuous useful light, depending on ambient conditions.

BEFORE USING THE INVERTER

Important Safety Instructions:

- Keep the 1150 inverter well ventilated in order to properly disperse heat generated while it is in use. Make sure there are several inches of clearance around the top and sides and do not block the vents on the back of the 1150.
- Make sure the 1150 is not close to any potential source of flammable fumes, gases or clothing.
- Keep the 1150 dry.
- DO NOT allow the 1150 to come into contact with rain or moisture.
- DO NOT operate the 1150 if you, the 1150, the device being operated or any other surfaces that may come in contact with any power source are wet. Water and many other liquids can conduct electricity, which may lead to serious injury.
- Do not place the 1150 on or near heating vents, radiators or other sources of heat.
- Do not place the 1150 in direct sunlight. The ideal air temperature for operation is between 50° and 80°F.
- Do not use inverter near open engine compartment.
- Do not modify the AC receptacles in any way.

USING THE INVERTER

It is important to know the continuous wattage of the device you plan to use with the inverter. The Portable Power 1150 must be used with devices drawing 400 watts or less. If the wattage is not marked on the device, an estimate can be made by multiplying the AC input current (Amps) by the AC voltage (110V).

Devices like TVs, fans or electric motors require additional power to start (commonly known as the “starting or peak power”). The Portable Power 1150 can supply a momentary surge in wattage; however even devices rated less than the maximum 400 watts can exceed the inverters surge capability and cause an automatic overload shutdown.

Make sure the device you are using is compatible with a modified sine wave inverter.

CAUTION: Always run a test to establish whether the inverter will operate a particular piece of equipment or device.

NOTE: In the event of a power overload, the inverter is designed to automatically shut down. This safety feature prevents damaging the inverter while testing devices and equipment with the 400-watt range.

NOTE: When powering two-AC accessories, the combined watts should not exceed 400 watts.

POWERING A 110V AC DEVICE

To operate a 110V AC device:

1. Open the protective cover of the AC power outlet on the front panel of the Portable Power 1150.
2. Plug the 110V AC device into the AC power outlet, and push the inverter switch to ON.
3. Turn on the 110V AC device (if required).
4. If a device will not operate properly when first connected to the inverter, push the inverter rocker switch ON (I), OFF (O), and ON (I) again in quick succession. If this procedure is not

successful, it is likely that the 1150 inverter does not have the required capacity to operate the device in question.

5. Charge the Portable Power 1150 as soon as possible after each use.

CAUTION: Incorrect operation of your inverter may result in damage and personal injury. Electrical current on a 120-volt circuit can be very dangerous.

TROUBLESHOOTING:

The digital display will flash *Err* and the inverter will automatically turn itself off when:

1. The input voltage from the battery drops to approximately 10.5 volts. (When the power input drops to approximately 11 volts an alarm will sound for an extended period).
2. The continuous load demand from the equipment or device being operated exceeds 400 watts.
3. The 1150 inverter temperature exceeds 145° F.

NOTE: The 1150 is fitted with a cooling fan that runs continuously for loads drawing 25 watts or higher. If the cooling fan is unable to maintain a cool enough temperature for safe operation, the inverter will automatically shut down. If the inverter automatically shuts down or a continuous audible alarm is heard:

1. Push the inverter/compressor switch to the OFF position.
2. Determine the source of the problem, and resolve it before reusing the inverter.

110V AC ELECTRICAL DEVICE EXAMPLE RUN-TIME CHART

<u>Appliance Type</u>	<u>Estimated Wattage</u>	<u>Estimated Time*</u>
Spotlights, Sump Pumps, DVD Players	100 Watts	1.5 Hours
Faxes, TVs, Small Power Tools	150 Watts	1.25 Hours
Computer Printer, Medium Power Tools, Blenders	200 Watts	55 Minutes

The maximum continuous load is 400 watts.

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

DIGITAL DISPLAY FUNCTIONS

1. Portable Power 1150 – To check the internal battery's status, press the display switch on the front of the 1150. The display will show the charge percentage of the internal battery.
2. Vehicle – For the first 5 seconds, the display shows the vehicle's battery power level in a percentage.
3. Vehicle and Portable Power 1150 – After 5 seconds, the display blinks and switches to show the combined total starting power of the vehicle and 1150 batteries.
You have 10 seconds to attempt to start your vehicle from the time you turn your key. You can crank as many times as necessary during these 10 seconds. After that time, the clamps will shut off and there will be no power available for one minute. The display will first show a 10-second countdown, then a 60-second countdown. This cycle will repeat itself until there is no power left in the Portable Power battery. See Page 4 for further starting details.
4. AC Power – When using the 1150 inverter, the display shows the 1150's battery percentage of charge. When the 1150 is clamped to an external battery and the inverter is on, the display blinks and shows the combined power level of the 1150 battery and the external battery.

CHARGING INTERNAL BATTERY

This Portable Power 1150 comes with a sealed, non-spillable 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 1150 internal battery:

1. Check the internal battery's charge level by pressing the switch marked DISPLAY. The Digital Display will show the battery's percentage of charge.

NOTE: Internal battery's status Display is most accurate when the Portable Power 1150 has been disconnected from all devices and charging sources for at least 30 minutes.

2. Using a proper extension cord, connect the cord to the charge plug and then plug the cord into a properly wired and live 110Vac/60Hz wall outlet.

CAUTION: Operating the Portable Power 1150 while the internal battery is being charged may cause permanent damage to the 1150.

3. While the Portable Power 1150 is charging, the battery's percentage of charge will be displayed. When the internal battery is fully charged the display will show 100. The Portable Power 1150 is then ready to use or store. Complete charging may take up to 72 hours. If there is an error while charging, *CHG ERR* will be displayed.

4. Once the battery is fully charged, the built-in charger automatically switches to float-mode monitoring, which trickle charges the battery and keeps it fully charged without over-charging so the Portable Power 1150 may be left permanently connected to the wall outlet.

The internal battery may also be charged while you drive using just the male-to-male accessory cable (included). 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.

STORAGE AND MAINTENANCE

Charge the 1150 internal battery before first use and after every use thereafter.

The internal battery will gradually self-discharge (lose power) over time, especially 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 2 to 3 months. The Portable Power 1150 may be left permanently connected to the AC wall outlet. Store in a cool dry place.

REPLACING THE BUILT-IN LIGHT

To replace the built-in light bulb:

1. Turn the light off.
2. Pop out the protective plastic lens cover.
3. Gently grasp the bulb and twist counter-clockwise one quarter-turn to unscrew the bulb.
4. Insert a replacement bulb of the same type and rating, and twist clockwise one quarter-turn to screw in the new bulb.
5. Test the light by switching the light on and off.
6. Replace the lens cover.

CUSTOMER TECHNICAL ASSISTANCE

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

SPECIFICATIONS

Internal Battery Type	Maintenance-free AGM Lead-acid
Nominal Voltage	12v DC
Capacity	22 Ah
DC Power Outlets (Max. Continuous Load)	15A per outlet
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 11.5 X 10.5 Inches
Product Weight	24.5 Lbs.

AC POWER SPECIFICATIONS

Maximum Continuous Power	400 Watts
Surge Capacity (Output Wattage)	800 Watts
No Load Current Draw	<0.4 Amps
Wave Form	Modified Sine Wave
Input Voltage Range	10.5 – 15.5V DC
AC Outlets	Two, 110V AC 3-Prong grounded

REPLACEMENT PARTS

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

**Air Compressor Accessory Kit
(3 Hose Adaptors)**

00-99-000599

**Inflator Accessory Kit
(Inflator / Deflator Hose, Unit End
and 3 Hose Adaptors)**

00-99-000598

Male-to-Male Accessory Cable

38-99-000834

Replacement Light Bulb

00-00-000722

Lens Cover

37-99-00382-0



**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.

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