Rally 7471

Rally Portable 8-in-1 Jump Starter and Power Source Unit (Model 7471) Instruction Manual

Your comprehensive guide to safe and effective operation.

1. Introduction

The Rally 8-in-1 Portable Jump Starter and Power Source Unit is a versatile device designed for roadside emergencies, power outages, camping, and various outdoor activities. This unit combines multiple essential functions into a single, portable device, ensuring you have power when and where you need it. Please read this manual thoroughly before operating the unit to ensure safe and proper use.

2. Important Safety Information

Always observe the following safety precautions to prevent personal injury or damage to the unit or vehicle:

- Wear eye protection and protective clothing when working with batteries.
- Do not smoke or allow sparks or flames near the battery or engine.
- Ensure the work area is well-ventilated.
- Never touch battery terminals or clamps together.
- Keep the unit away from children.
- Do not expose the unit to rain or wet conditions.
- Always refer to your vehicle's owner's manual for specific jump-starting procedures.
- This is a Hazmat non-returnable item. Handle with care.

3. Package Contents

Verify that all items are present in your package:

- Rally 8-in-1 Portable Jump Starter and Power Source Unit
- AC Charging Adapter
- DC Charging Adapter (12V)
- Air Compressor Nozzle Adapters (Small Inflatable Stem, Ball Stem, Large Inflatable Stem)
- User Manual

4. Component Identification

Familiarize yourself with the main components of your Rally 8-in-1 unit:



Figure 1: Front Panel Overview
This image displays the front panel of the Rally 8-in-1 unit, highlighting the various controls, outlets, and indicators. Key features visible include the battery status indicator, charging port, inverter/USB switch, AC outlet, USB port, and LED work light switch.



Figure 2: Back Panel with Jump Cables

The back panel of the unit is shown, featuring the integrated red (positive) and black (negative) jump starter cables neatly stored in their compartments. This design ensures the cables are always accessible and organized.



Figure 3: Hand Generator Operation

This image illustrates the hand generator in operation, with a hand pulling the handle to manually charge the unit's internal battery. The hand generator is a crucial feature for recharging the unit when no other power source is available.



Figure 4: LED Work Light in Use
The LED work light on the Rally 8-in-1 unit is shown illuminated, providing bright light into a car's engine bay. This feature is essential for visibility during nighttime repairs or in dimly lit environments.



Figure 5: Air Compressor in Action
This image demonstrates the air compressor function, with the hose connected to a car tire valve for inflation. The built-in pressure gauge allows for accurate monitoring of tire pressure during the inflation process.



Figure 6: Jump Starting a Vehicle
The Rally 8-in-1 unit is depicted actively jump starting a vehicle. The red and black clamps are correctly attached to the corresponding positive and negative terminals of the car battery, illustrating a typical jump-start scenario.

5. Initial Setup and Charging

5.1 Charging the Internal Battery

Before first use, fully charge the unit's internal battery. The unit may arrive partially charged from the manufacturer. It is recommended to fully charge the device immediately after purchasing and before using it for the first time. Charging via AC current will take several hours. Always unplug the unit once the battery status indicator turns green to prevent overcharging.

1. **Using the AC Charging Adapter:**

   

   Connect the AC charging adapter to the unit's charging jack and then plug it into a standard wall outlet. The charging indicator will show the charging status. Unplug when fully charged.

2. **Using the DC Charging Adapter (12V):**

   

   Connect the DC charging adapter to the unit's charging jack and then plug it into your vehicle's 12V DC outlet. This allows for convenient charging while on the go. Unplug when fully charged.

3. **Using the Emergency Hand Generator:**



In situations where no external power source is available, the integrated hand generator can be used to charge the internal battery. Pull the handle firmly and allow it to retract completely before pulling again. Do not exceed the maximum cord length of 30 inches. Check the battery indicator periodically while hand-cranking.

Caution: Do not overcharge the unit. Wait at least 1 hour after use before recharging.

6. Operating Instructions

6.1 Jump Starting a Vehicle

Use the jump starter to start any 12-volt battery quickly and safely.

1. Ensure the unit is fully charged.
2. Turn off the vehicle's ignition and all accessories.
3. Connect the red (positive) clamp to the positive (+) terminal of the vehicle's battery.
4. Connect the black (negative) clamp to a non-moving metal part of the vehicle's chassis, away from the battery and fuel lines.
5. Turn the unit's jump starter switch to the 'ON' position. The polarity indicator will confirm correct connection (green light). If the red light illuminates, disconnect immediately and recheck connections.
6. Attempt to start the vehicle. If it does not start within 5 seconds, wait at least 3 minutes before trying again.
7. Once the vehicle starts, immediately disconnect the black clamp, then the red clamp.

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Video 1: Jump Starting a Car with a Portable Unit

This video demonstrates the process of connecting a portable jump starter to a car battery and successfully starting the vehicle. It highlights the correct placement of positive and negative clamps and the activation of the jump starter function.

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Video 2: Tyrell Chenergy HH744 Car Jump Starter Demonstration

A detailed overview of the Tyrell Chenergy HH744 car jump starter, showcasing its features and how to use it for jump-starting a vehicle. This video provides visual guidance on the unit's operation.

6.2 Operating the Air Compressor

The 260 PSI air compressor is ideal for high-pressure inflation of tires, sports equipment, and other inflatables.

1. Uncoil the air compressor hose from its storage compartment.
2. Select the appropriate nozzle adapter for your item and securely attach it to the hose.
3. Connect the nozzle to the item to be inflated (e.g., tire valve stem).
4. Turn the air compressor switch to the 'ON' position.
5. Monitor the pressure gauge to reach the desired PSI.
6. Once desired pressure is reached, turn the air compressor switch to 'OFF'.
7. Disconnect the nozzle from the item and store the hose and adapters.

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Video 3: Acetek Jump Starter with Air Compressor Overview

This video provides an overview of the Acetek jump starter, focusing on its air compressor functionality. It demonstrates how to connect the hose and inflate various items, showcasing the unit's ease of use for tire maintenance and other inflation needs.

6.3 Using Power Outlets (AC/DC/USB)

The unit provides multiple power options for various electronic devices:

1. **140 Watt Power Inverter with AC Outlet:** Plug compatible household products directly into the AC outlet. Ensure the device's wattage does not exceed 140 watts.
2. **USB Port (5V-2.1A):** Use the USB port to operate and recharge portable electronic devices such as cell phones, digital cameras, and MP3 players.
3. **12 Volt DC Outlet:** Connect 12V DC appliances to this outlet.

6.4 Using the LED Work Light

The integrated LED work light with emergency flasher provides illumination in dark conditions.

1. Locate the light switch on the unit's front panel.
2. Press the switch once for steady work light.
3. Press again for emergency flasher mode.
4. Press a third time to turn the light off.

7. Maintenance and Storage

Proper maintenance ensures the longevity and performance of your unit:

- **Recharging:** Recharge the unit after each use. If not used, recharge every month in summer and every two months in winter to maintain battery health.
- **Cleaning:** Clean the unit with a dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the unit in a cool, dry, well-ventilated area with overhead cover. Avoid extreme temperatures (-4°F to 140°F (-20°C to 60°C)).
- **Air Compressor:** Allow the air compressor to cool down after prolonged use (e.g., 3-4 minutes of operation, allow equal rest time).

8. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Unit does not turn on	Internal battery is discharged	Recharge the unit fully.
Vehicle does not jump start	Incorrect clamp connection or severely discharged vehicle battery	Check polarity indicator (should be green). Ensure clamps are securely connected. Allow more time for charging or try again after 3 minutes.
Air compressor not inflating	Nozzle not properly attached or item is punctured	Ensure nozzle is securely attached and locked. Check item for leaks.
Unit overheats	Prolonged use of air compressor	Allow the unit to cool down for an adequate period before resuming use.

9. Specifications

Feature	Detail
Model Name	7471
Built-in Battery	8-amp hour (Ah) sealed, lead-acid, maintenance-free, spill-proof, rechargeable 12V
DC Outlet	12 Volt DC (15 Amp replaceable blade fuse)
USB Port	5 Volt(s) DC / 2.1 A(mps)
LED Light	12 Volt DC / 330 mA
Power Inverter	140 Watt(s)
Air Compressor	150 PSI (15 Amp replaceable blade fuse)
Circuit Breaker	Internal, Auto-reset (after 60 seconds)
Net Weight	10.6 lbs. (4.8 kg)
Unit Dimensions (L x W x H)	9.14" x 6.97" x 12.2" (23.2 cm x 17.7 cm x 31.0 cm)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operation Temperature	32°F to 104°F (0°C to 40°C)

10. Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please refer to the documentation included with your product or visit the official Rally website. Keep your purchase receipt as proof of purchase for any warranty claims.

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