1. Overview

The Tyrell Chenergy HH744 is a multi-function portable power device designed for automotive emergencies and general power needs. It combines a high-capacity jump starter, a tire inflator, a power bank, and an emergency light into a single unit.

Primary Functions:

- **Jump Starting:** Provides up to 1800A peak current to start 12V vehicles with gasoline or diesel engines up to 8.0L.
- **Tire Inflation:** Built-in 260 PSI air compressor for tires, air mattresses, and sports equipment.
- **Device Charging:** Features a 20000mAh battery with USB ports for charging phones and tablets, and a 12V DC port for powering other vehicle equipment.
- **Emergency Lighting:** Includes a built-in ultra-bright LED light.

2. Package Contents

- Tyrell Chenergy HH744 Jump Starter Unit
- Heavy-Duty Jump Clamps (Red/Black)
- Air Compressor Hose
- 3 x Valve Connectors/Nozzles
- AC Wall Charger
- Car Charger (12V DC)
- User Manual
- Gift Box

Note: Before first use, inspect all components for damage. Ensure all items are present.

3. Product Features & Components

3.1 Physical Specifications

- **Model:** HH744
- **Dimensions:** 7"D x 9.9"W x 11.2"H
- **Battery Type:** Sealed Lead Acid
- **Battery Capacity:** 20000mAh / 20Ah
- **Jump Start Peak Current:** 1800 Amps
- **Operating Voltage:** 12 Volts

3.2 Control Panel & Ports

Identify the following elements on the unit's housing:

- **Digital Display** / **Pressure Gauge:** Shows battery level and tire pressure when inflating.
- **Air Compressor Hose Connection Port:** For attaching the included hose.
- **12V/10A DC Output Port:** For powering devices like car refrigerators or vacuums.
- **USB Output Ports (5V/2.1A):** Two ports for charging mobile devices.
- **LED Light:** Ultra-bright light for emergency illumination.
- **Power Button:** Controls the unit's main power and mode selection.
- **Clamp Storage:** Designated area to secure the jumper clamps.

3.3 Safety Protections

The device incorporates 10 built-in safety protection technologies:

- Over-charge Protection
- Over-current Protection
- Short-circuit Protection
- Reverse-polarity Protection
- Low-temperature Protection
- High-temperature Protection
- Over-voltage Protection
- Over-load Protection
- Spark-proof Technology
- Reverse-charge Protection

4. Use Guide

4.1 Initial Charging

1. Before first use, fully charge the unit using the provided AC wall charger or 12V car charger.
2. Connect the charger to the unit's charging port. The display should indicate charging status.

3. Allow several hours for a complete charge. Refer to the display for a full battery indicator.

Maintenance Charging: To maintain battery health, recharge the device every 60 days when not in use and immediately after each use.

4.2 Jump Starting a Vehicle

WARNING: Always wear safety glasses. Ensure the jump starter and vehicle are off before connecting. Connect clamps in the correct order to avoid sparks. Do not use on a frozen battery. Keep away from flames and sparks.

1. **Position the Unit:** Place the jump starter on a stable, flat surface near the vehicle's battery, but at least 18 inches away from the battery.
2. **Power On:** Turn on the jump starter unit.
3. **Connect Clamps - CORRECT ORDER IS CRITICAL:**
    1. Connect the **RED (Positive +)** clamp to the **POSITIVE (+)** terminal of the dead vehicle battery.
    2. Connect the **BLACK (Negative -)** clamp to a clean, unpainted metal part of the vehicle's engine block or chassis (a ground point). **Do NOT connect to the negative battery terminal.**
4. **Start the Vehicle:** Get into the vehicle and start the engine. It should start within a few seconds.
5. **Disconnect Clamps - REVERSE ORDER:**
    1. Disconnect the **BLACK (Negative -)** clamp from the vehicle's ground point.
    2. Disconnect the **RED (Positive +)** clamp from the battery's positive terminal.
6. **Power Off & Recharge:** Turn off the jump starter. Recharge it as soon as possible.

Compatible Vehicles: 12V cars, SUVs, trucks, pickups, motorcycles with gasoline or diesel engines up to 8.0L displacement.

4.3 Using the Air Compressor

1. **Attach Hose & Nozzle:** Connect the air compressor hose to the unit's port. Select the appropriate valve connector for your item (tire, ball, mattress, etc.) and attach it to the other end of the hose.
2. **Connect to Item:** Attach the valve connector securely to the tire valve or item's air inlet.
3. **Set Target Pressure:** The unit may have an automatic shut-off or require monitoring. Know your target PSI (e.g., 35 PSI for a car tire).
4. **Power On & Inflate:** Turn on the unit and select the compressor function if necessary. The compressor will start. Monitor the pressure gauge on the unit's display.

5. **Stop & Disconnect:** When the desired pressure is reached, turn off the compressor. Disconnect the hose from the item first, then from the unit.

Max Pressure: 260 PSI. Do not exceed the maximum pressure rating of the item you are inflating.

4.4 Charging Electronic Devices

- **Via USB:** Use a standard USB cable to connect your phone, tablet, or other device to one of the unit's 5V/2.1A USB ports. The unit must be powered on.
- **Via 12V DC Port:** Use an appropriate 12V adapter (not included for specific devices) to power equipment like a car refrigerator or vacuum cleaner from the 12V/10A DC output port.

4.5 Using the LED Light

Press the light button (often integrated with the power button or separate) to turn on the built-in LED light. It may have multiple modes (steady, flashing). Use it to illuminate your workspace in dark conditions.

5. Troubleshooting

Problem	Possible Cause	Solution
Unit will not power on.	Battery is completely depleted.	Connect to the AC wall charger or car charger for several hours to recharge.
Vehicle does not start when connected.	1. Clamps connected incorrectly or poorly. 2. Vehicle battery is severely damaged or frozen. 3. Jump starter battery is low.	1. Check clamp connection order and ensure contacts are clean and tight. 2. The jump starter is for boosting a weak battery, not a dead one. Vehicle battery may need replacement. 3. Recharge the jump starter.
Air compressor does not start.	1. Unit overheated. 2. Internal safety cut-off triggered.	1. Allow the unit to cool down for 10-15 minutes. 2. Check hose for kinks and ensure the unit is adequately charged.
Device does not charge via USB.	1. USB cable is faulty. 2. Unit's battery is too low.	1. Try a different USB cable. 2. Ensure the jump starter has adequate charge (check display).

6. Specifications

Feature	Specification
Model	HH744
Peak Current	1800 Amps
Battery Capacity	20000mAh (20Ah)
Battery Chemistry	Sealed Lead Acid
Voltage	12V DC
USB Output	5V/2.1A (Dual Port)
DC Output	12V/10A
Air Compressor Pressure	260 PSI Max
Operating Temperature	-4°F to 149°F (-20°C to 65°C)
Dimensions (DxWxH)	7" x 9.9" x 11.2"
Vehicle Compatibility	Up to 8.0L Gasoline or Diesel Engine

7. Warranty and Support

Tyrell Chenergy offers a 12-month warranty for this product from the date of purchase.

To obtain warranty service or support:

- Contact the seller through your Amazon purchase history.
- Refer to the contact information included in the packaging or documentation.

Note: A delivery signature was required for this product. Keep your proof of purchase.

> **Warning**
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