

Tyrell Chenergy TC-399

Tyrell Chenergy TC-399 4-in-1 Car Jump Starter with Air Compressor User Manual

Model: TC-399

1. INTRODUCTION

Thank you for purchasing the Tyrell Chenergy TC-399 4-in-1 Car Jump Starter with Air Compressor. This device is designed to provide reliable assistance for various automotive and outdoor needs, combining a jump starter, air compressor, portable power bank, and LED work light into one compact unit. Please read this manual thoroughly before use to ensure safe and optimal operation.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device and property.

- **Read All Instructions:** Familiarize yourself with the product's features and operation before use.
- **Eye Protection:** Always wear safety glasses when working with batteries.
- **Ventilation:** Ensure adequate ventilation when charging or jump-starting, as batteries can emit explosive gases.
- **Avoid Sparks:** Do not smoke or allow sparks or flames near the battery or jump starter.
- **Proper Connection:** Connect the jump starter cables in the correct order to avoid short circuits.
- **Children and Pets:** Keep the device out of reach of children and pets.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and moisture.
- **Charging:** Recharge the unit after each use and at least every three months to maintain battery health.
- **Air Compressor Safety:** Do not over-inflate tires. Check tire pressure regularly with a separate gauge.

3. PRODUCT OVERVIEW

The Tyrell Chenergy TC-399 integrates multiple functions for convenience and emergency preparedness.



Image 1: Front view of the Tyrell Chenergy TC-399 unit, showing the jump starter clamps, air pressure gauge, LED light, 12V DC socket, USB ports, and compressor switch.

Key Components:

- **Jump Starter Cables:** Integrated heavy-duty cables with clamps for vehicle battery connection.
- **Air Compressor:** Built-in air pump with pressure gauge for tire inflation.
- **LED Work Light:** Provides illumination for nighttime use or emergencies.
- **12V DC Power Outlet:** For powering 12V accessories.
- **USB Charging Ports:** For charging mobile devices.
- **Battery Test Button:** To check the internal battery status.
- **Charging Jack:** For recharging the unit's internal battery.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the Tyrell Chenergy TC-399 for at least 12-15 hours. This ensures the internal battery is conditioned and ready for optimal performance.

1. Locate the charging jack on the unit.
2. Connect the provided AC charging adapter to the charging jack.
3. Plug the AC adapter into a standard wall outlet.
4. The charging indicator light will illuminate. Once fully charged, the indicator may change color or turn off depending on the model.

4.2 Checking Battery Status

Press the 'Battery Test' button on the unit to check the charge level of the internal battery. Indicator lights will show the current charge status.

5. OPERATING INSTRUCTIONS

5.1 Jump Starting a Vehicle

This unit is suitable for most 12V gasoline vehicles up to 5.0L and diesel vehicles up to 3.0L. The peak output current is 450 Amps.

Powerful Jump Starter Power Station



Image 2: The jump starter unit highlighting its suitability for various vehicle types and engine displacements.

1. **Preparation:** Ensure the vehicle's ignition is off and all accessories (lights, radio) are turned off. Place the vehicle in park (automatic) or neutral (manual) and engage the parking brake.
2. **Connect Red Clamp:** Connect the **RED (+)** positive clamp of the jump starter to the **RED (+)** positive terminal of the vehicle's discharged battery.
3. **Connect Black Clamp:** Connect the **BLACK (-)** negative clamp of the jump starter to a clean, unpainted metal part of the vehicle's chassis or engine block, away from the battery and fuel lines. *Do not connect directly to the negative battery terminal.*
4. **Start Vehicle:** Once connected, attempt to start the vehicle. If it doesn't start immediately, wait a few minutes and try again. Do not crank for more than 5 seconds at a time.
5. **Disconnect Clamps:** Once the vehicle starts, disconnect the **BLACK (-)** negative clamp first, then the **RED (+)** positive clamp.
6. **Recharge Unit:** Recharge the jump starter unit as soon as possible after use.



Image 3: A person using the jump starter to assist a vehicle, demonstrating a typical use scenario.

5.2 Using the Air Compressor

The built-in air compressor can inflate tires and other inflatables.

1. **Connect Hose:** Screw the air compressor hose nozzle onto the tire valve stem or appropriate inflatable adapter.
2. **Power On:** Flip the 'COMPRESSOR' switch to the 'ON' position.
3. **Monitor Pressure:** Watch the built-in pressure gauge. Inflate to the recommended pressure for your tire or item.
4. **Power Off:** Once the desired pressure is reached, flip the 'COMPRESSOR' switch to 'OFF'.
5. **Disconnect Hose:** Unscrew the nozzle from the valve stem.



Image 4: A person using the integrated air compressor to inflate a car tire, showing the practical application of this feature.

5.3 Using the LED Work Light

The integrated LED light provides illumination for various situations.

1. Locate the LED light button.
2. Press the button to turn the light on.
3. Press again to cycle through modes (if applicable) or turn off.

LED Work Light



Image 5: The Tyrell Chenergy TC-399 unit with its LED work light activated, useful for dark environments or emergencies.

5.4 Charging External Devices (Portable Power)

The unit features a 12V DC outlet and USB ports for charging or powering external devices.

POWER ON THE GO

Multiple outlets
charge all your
devices

12V DC Port / 2 USB Hub



+ 12V DC Port +
Charge Refrigerator
and Vacuums



2 x 2.1A USB Port
Charge Your Phone
and Ipads



Image 6: The unit displaying its various power output options, including a 12V DC port and USB ports for charging devices.

- **12V DC Outlet:** Plug your 12V compatible device (e.g., car vacuum, portable refrigerator) into the 12V DC socket.
- **USB Ports:** Connect your USB charging cable to one of the USB ports (2 x 2.1A) and then to your smartphone, tablet, or other USB-powered device.

6. MAINTENANCE

- **Recharging:** For optimal battery life, recharge the unit after every use. If not used frequently, recharge at least every three months to prevent deep discharge.
- **Cleaning:** Wipe the unit with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the unit in a cool, dry, and well-ventilated area. Keep away from direct sunlight, heat sources, and moisture.
- **Cable Inspection:** Periodically inspect the jump starter cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.

7. TROUBLESHOOTING

- **Unit Not Charging:** Ensure the AC adapter is properly connected to both the unit and the wall outlet. Check if the wall outlet is functional.
- **Vehicle Not Starting:**
 - Check if the jump starter's internal battery is fully charged.
 - Ensure clamps are securely connected to the correct battery terminals and a clean chassis ground.
 - The vehicle's battery might be severely discharged or damaged, requiring professional assistance.
- **Air Compressor Not Working:**
 - Ensure the compressor switch is in the 'ON' position.
 - Check if the nozzle is securely attached to the valve stem.
 - The unit's internal battery might be low.
- **USB Ports Not Charging:** Ensure the unit has sufficient charge. Try a different USB cable or device to rule out external issues.

8. SPECIFICATIONS

Feature	Specification
Brand	Tyrell Chenergy
Model Number	TC-399
Product Dimensions	5.5"D x 10.5"W x 8.7"H
Item Weight	9.92 pounds
Amperage	450 Amps
Peak Output Current	450 Amps
Battery Cell Composition	Lead-Acid, AGM
Voltage	12 Volts
Vehicle Service Type	Passenger Car
UPC	794094722701



Image 7: Diagram showing the dimensions of the Tyrell Chenergy TC-399 unit: 5.5"D x 10.5"W x 8.7"H.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact Tyrell Chenergy customer service directly. Keep your purchase receipt as proof of purchase.