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TYT 8541724221

TYT EL-MD380 Battery Eliminator User Manual

For TYT MD-380 Two Way Radio

1. Product Overview

The TYT EL-MD380 Battery Eliminator is designed to provide continuous power to your TYT MD-380 Two Way Radio directly from a vehicle's 12V-24V power source, typically a cigarette lighter socket. This accessory allows you to operate your radio without relying on its internal battery, making it ideal for in-vehicle use or extended operation where a power outlet is available.

It functions by replacing the standard battery pack on your radio, providing a direct power connection. This unit does not charge the radio's battery; it acts as a power supply.



Figure 1: TYT EL-MD380 Battery Eliminator showing the radio-side connector, coiled power cord, and car cigarette lighter plug.

2. Setup and Installation

1. **Prepare the Radio:** Ensure your TYT MD-380 radio is powered off before installation.
2. **Remove Existing Battery:** Carefully remove the existing battery pack from your TYT MD-380 radio. Refer to your radio's user manual for specific instructions on battery removal.
3. **Attach Battery Eliminator:** Align the TYT EL-MD380 Battery Eliminator with the battery compartment of your radio. Slide it into place until it clicks securely, just as you would with a standard battery pack. Ensure the contacts are properly aligned.
4. **Connect to Vehicle Power:** Insert the cigarette lighter plug of the battery eliminator into your vehicle's 12V or 24V accessory power socket.



Figure 2: The battery eliminator securely attached to the back of a TYT MD-380 radio, ready for connection to vehicle power.

3. Operating Instructions

Once the battery eliminator is securely attached to your radio and the cigarette lighter plug is inserted into a live vehicle power socket, your TYT MD-380 radio will draw power directly from the vehicle's electrical system.

- Turn on your radio as you normally would.
- The radio will operate using the external power provided by the eliminator.
- This device is a power supply, not a charger. It will not charge any internal battery if one were present, nor does it contain a battery itself.

4. Maintenance and Safety

To ensure the longevity and safe operation of your TYT EL-MD380 Battery Eliminator, please observe the following guidelines:

- **General Care:** Keep the unit clean and dry. Avoid exposing it to extreme temperatures, direct sunlight, or moisture.

- **Connection Integrity:** Periodically check the connections to ensure they are secure and free from debris.
- **Vehicle Power:** Ensure your vehicle's power socket is functioning correctly and provides the specified voltage (12V-24V).

Important Safety Precautions:



Figure 3: Caution label on the battery eliminator, highlighting important safety warnings.

- **DO NOT DISASSEMBLE:** Attempting to disassemble the unit can cause damage and void any warranty.
- **DO NOT DISPOSE OF IN FIRE:** This product contains electronic components that can be hazardous if incinerated.
- **DO NOT CHANGE OR CHARGE BATTERY IN HAZARDOUS LOCATION:** This device is not a battery and does not contain one. This warning refers to the radio's original battery.
- **DO NOT SHORT-CIRCUIT THE TERMINALS:** Avoid contact between the metal contacts on the eliminator and any conductive materials.

5. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on when connected to the eliminator.	• Loose connection at the radio or vehicle socket. • Vehicle power socket is not active (e.g., vehicle ignition off). • Blown fuse in the vehicle's power socket. • Faulty battery eliminator.	• Ensure the eliminator is firmly seated in the radio and the cigarette lighter plug is fully inserted into the vehicle socket. • Turn the vehicle ignition to the ACC or ON position. • Check and replace the vehicle's cigarette lighter fuse if necessary (refer to your vehicle's manual). • Test the eliminator in another vehicle or with another compatible radio if possible. If the issue persists, the unit may be faulty.
Radio powers on but experiences intermittent power loss.	• Poor contact in the vehicle power socket. • Damaged cable or plug.	• Ensure the plug is clean and fits snugly. Avoid excessive movement of the cable. • Inspect the cable and plug for any visible damage. Discontinue use if damage is found.

6. Specifications

- **Model:** EL-MD380
- **Compatible Radio:** TYT MD-380 Two Way Radio
- **Input Voltage:** 12V-24V DC (from vehicle cigarette lighter socket)
- **Output Voltage:** 7.4V DC
- **Chemistry:** Designed for radios using Li-ion battery packs
- **Product Dimensions:** Approximately 5 x 4.49 x 1 inches (12.7 x 11.4 x 2.54 cm)
- **Item Weight:** Approximately 3.2 ounces (90.7 grams)
- **UPC:** 712383659804
- **Manufacturer Model Number:** 8541724221

7. Warranty and Support

This TYT product is manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty policy provided at the time of purchase or contact your retailer.
For technical support or inquiries, please contact the manufacturer or your authorized dealer. Keep your purchase receipt as proof of purchase for any warranty claims.

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