
Technician Question Pool

July 2022 to June 2026

The MORE Project

<http://n2re.org/m-o-r-e-project>



Radio Practices & Station Setup

No-Nonsense pages 77 - 79

Station setup: connecting microphones, reducing unwanted emissions, power sources, connecting a computer, RF grounding, connecting digital equipment

Choosing the radio is an important consideration in setting up your ham shack, but you must also choose a wide range of accessories, such as power supplies and microphones. Connecting all of these pieces of equipment together correctly is essential for your station to operate properly.



T4A03

Why are short, heavy-gauge wires used for a transceiver's DC power connection?

- A. To minimize voltage drop when transmitting
- B. To provide a good counterpoise for the antenna
- C. To avoid RF interference
- D. All of these choices are correct



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T4A01

Which of the following is an appropriate power supply rating for a typical 50 watt output mobile FM transceiver?

- A. 24.0 volts at 4 amperes
- B. 13.8 volts at 4 amperes
- C. 24.0 volts at 12 amperes
- D. 13.8 volts at 12 amperes



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T4A01

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T4A06

What signals are used in a computer-radio interface for digital mode operation?

- A. Receive and transmit mode, status, and location
- B. Antenna and RF power
- C. Receive audio, transmit audio, and transmitter keying
- D. NMEA GPS location and DC power



T4A06

What signals are used in a computer-radio interface for digital mode operation?

- A. Receive and transmit mode, status, and location
- B. Antenna and RF power
- C. Receive audio, transmit audio, and transmitter keying**
- D. NMEA GPS location and DC power



T4A04

How are the transceiver audio input and output connected in a station configured to operate using FT8?

- A. To a computer running a terminal program and connected to a terminal node controller unit
- B. To the audio input and output of a computer running WSJT-X software
- C. To an FT8 conversion unit, a keyboard, and a computer monitor
- D. To a computer connected to the FT8converter.com website



T4A04

How are the transceiver audio input and output connected in a station configured to operate using FT8?

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- D. To a computer connected to the FT8converter.com website



T4A07

Which of the following connections is made between a computer and a transceiver to use computer software when operating digital modes?

- A. Computer “line out” to transceiver push-to-talk
- B. Computer “line in” to transceiver push-to-talk
- C. Computer “line in” to transceiver speaker connector
- D. Computer “line out” to transceiver speaker connector



T4A07

Which of the following connections is made between a computer and a transceiver to use computer software when operating digital modes?

- A. Computer “line out” to transceiver push-to-talk
- B. Computer “line in” to transceiver push-to-talk
- C. Computer “line in” to transceiver speaker connector**
- D. Computer “line out” to transceiver speaker connector



T7B04

Which of the following could you use to cure distorted audio caused by RF current on the shield of a microphone cable?

- A. Band-pass filter
- B. Low-pass filter
- C. Preamplifier
- D. Ferrite choke



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T4A08

Which of the following conductors is preferred for bonding at RF?

- A. Copper braid removed from coaxial cable
- B. Steel wire
- C. Twisted-pair cable
- D. Flat copper strap



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T4A08

Which of the following conductors is preferred for bonding at RF?

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- B. Steel wire
- C. Twisted-pair cable
- D. Flat copper strap**



T4A11

Where should the negative power return of a mobile transceiver be connected in a vehicle?

- A. At the 12 volt battery chassis ground
- B. At the antenna mount
- C. To any metal part of the vehicle
- D. Through the transceiver's mounting bracket



T4A11

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T4A09

How can you determine the length of time that equipment can be powered from a battery?

- A. Divide the watt-hour rating of the battery by the peak power consumption of the equipment
- B. Divide the battery ampere-hour rating by the average current draw of the equipment
- C. Multiply the watts per hour consumed by the equipment by the battery power rating
- D. Multiply the square of the current rating of the battery by the input resistance of the equipment



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A non-profit initiative by the IEEE and ARDC to increase the numbers of youth (12-18) and non-males in Amateur Radio. Participants earn FCC licenses and receive free 2-way radios.

For MORE information: n2re.org/m-o-r-e-project
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