

Ham Basics Workshop

Handheld to HF

Delvin R. Bunton, N7QMT

Station types

- VHF/UHF
 - Handheld
 - Mobile
 - Portable
 - Stationary

 - Low power
 - High power
- HF and HF with VHF
 - QRP
 - 100 watt
 - 100-200 watt, with or without amplifier

 - Portable
 - Mobile
 - Stationary

Starter system

- Radio
- Power (usually battery)
- Antenna

- Complete station in your hand



Handheld with mobile antenna

- Mobile antenna



12 volt power to feed handheld

VHF/UHF Portable use

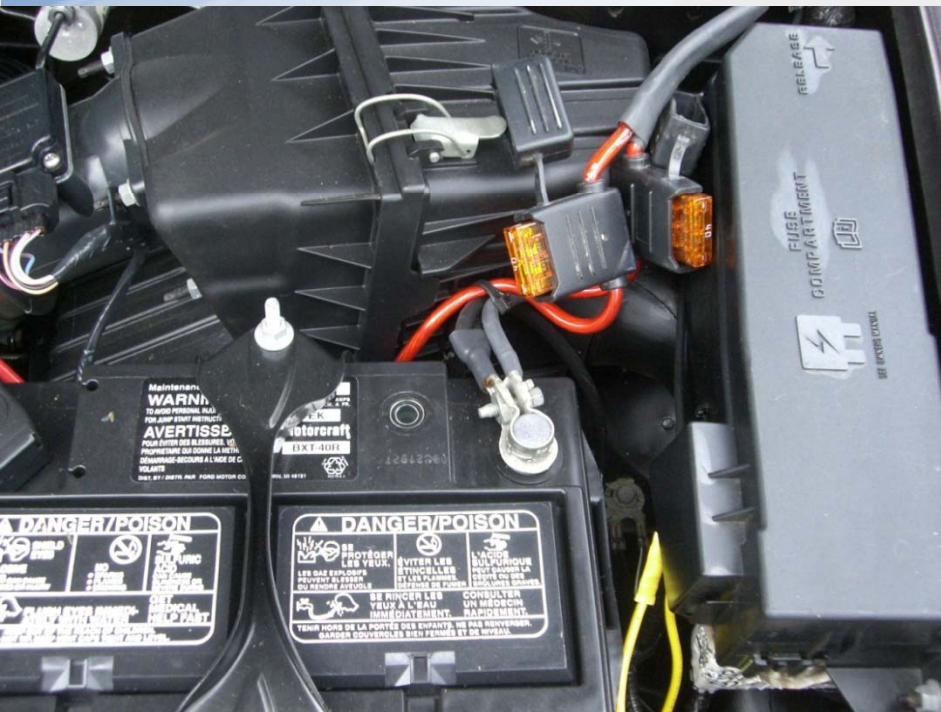
- J-pole antenna
 - Portable Roll-up J-pole
 - Extensible J-pole
- Yagi
- Gel cell battery allows use for several days



Mobile radio in vehicle

- Power from battery
 - Fuse both wires close to the battery
- Suggestion: terminate power wires with Anderson Powerpole connectors
- Mobile antenna on roof or other appropriate place





Mobile radio in home

- Add power supply to feed radio
- Antenna
- Feedline (low loss if cable longer than 10' or so)



- Directional antenna to hit specific repeater



Portable station

- Radio
- Battery or generator power
- Portable antenna



VHF/UHF CW and SSB

- Multimode radio
- Operate using CW or SSB
- 6m/2m/70 cm grid hunting

HF station types

- Home
- Portable
 - 100 watt
 - QRP
- Mobile



HF Antenna systems

- Wire dipole
- Yagi
- Many other antenna types

- Antenna choices for fixed stations differ from portable stations



QRP Operation

- Radio with low power requirements
- Portable antenna
- Battery
- Mountain-topping
- Pedestrian mobile
- Bicycle mobile

Home stations





HF Portable



Final words

- Unless you can afford it, buy equipment over time, not all at once
- Acquire equipment that suits YOUR interests, not someone else's interests
- Ham radio provide fun and enjoyment for me
- Ham radio can help your neighbors if YOU know what you are doing