

Ham Basics Workshop

Get the most from your Handheld

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Key parts of a handheld

- Radio
- Power (usually battery)
- Antenna



Setup

- Four key settings
 - Offset amount [O]
 - Receive frequency [Rx]
 - Offset direction (plus, minus, zero) [D]
 - Tone [T]
- Example: 147.240 +
 - Call: W7AIA
 - O: 600 kHz
 - Rx: 147.240
 - D: +
 - T: none
 - Tx: 147.840 no tone

Setup examples

- Example: 444.725 +
 - Call: K7BPR
 - O: 5 MHz
 - Rx: 444.725
 - D: +
 - T: 107.2
 - Tx: 449.725 107.2
- Example: 146.700 -
 - Call: KD7TFZ
 - O: 600 kHz
 - Rx: 146.700
 - D: -
 - T: 100.0
 - Tx: 146.100 100.0

More setup examples

- Example: 146.520
 - Call: national simplex calling
 - O: 600 kHz
 - Rx: 146.520
 - D: zero
 - T: none
 - Tx: 146.520
- Example: 445.000
 - Call:
 - O: 5 MHz
 - Rx: 445.000
 - D: zero
 - T: none
 - Tx: 445.000

Operating modes

- VFO
 - Select band if necessary
 - Set receive frequency
 - Set duplex direction
 - Set tone if needed
 - Listen and talk
- Memory
 - Select band if necessary
 - Select memory channel
 - Listen and talk

Radio choices

- Mono band
- Dual band
- Multiple band
- Physical Size
- Battery capacity
- Features
 - Memory positions
 - Extended receive
- Intended uses

Power

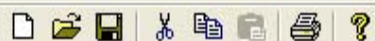
- Standard battery
- AA battery pack
- External battery pack
- Connection to external power source
- NiCad
- Lilon
- AGM (aka gel cell)

Antennas

- Standard rubber duck
 - Gain vertical
 - Roll-up J-pole
 - Mobile vertical
 - Portable vertical
 - Directional (yagi)
- Antenna choices depend on:
 - Intended use
 - Budget
 - What you have available
 - What you can borrow

Operating preparation

- Store area repeater frequencies in memory
- Store all standard simplex frequencies in memory
- Learn various operating controls for your radio



IC-W32.ICW32

	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Name	Tone Mode	CTCSS	Rx CTCSS	Skip	
0	147.24000	147.84000	600 kHz	+DUP	FM	W7AIA	None	88.5 Hz	88.5 Hz	Off	
1	146.52000	146.52000		Simplex	FM	NAT S	None	88.5 Hz	88.5 Hz	Off	
2	147.02000	147.62000	600 kHz	+DUP	FM		None	88.5 Hz	88.5 Hz	Off	
3	147.06000	147.66000	600 kHz	+DUP	FM	BAW F	None	88.5 Hz	88.5 Hz	Off	N7PRJ
4	146.70000	146.10000	600 kHz	-DUP	FM	CARS	Tone	100.0 Hz	100.0 Hz	Off	West Hills
5	147.32000	147.92000	600 kHz	+DUP	FM		None	88.5 Hz	88.5 Hz	Off	
6	147.30000	147.90000	600 kHz	+DUP	FM	BRYNI	None	114.8 Hz	114.8 Hz	Off	
7	145.43000	144.83000	600 kHz	-DUP	FM	TOLEDO	None	88.5 Hz	88.5 Hz	Off	
8	147.30000	147.90000	600 kHz	+DUP	FM		None	88.5 Hz	88.5 Hz	Off	
9	147.32000	147.92000	600 kHz	+DUP	FM	BRYNI	Tone	114.8 Hz	114.8 Hz	Off	
10	146.84000	146.24000	600 kHz	-DUP	FM	PARC L	None	88.5 Hz	88.5 Hz	Off	
11	147.12000	147.72000	600 kHz	+DUP	FM	PORTL	None	88.5 Hz	88.5 Hz	Off	
12	145.43000	144.83000	600 kHz	-DUP	FM	TOLEDO	Tone	88.5 Hz	88.5 Hz	Off	
13	147.04000	147.64000	600 kHz	+DUP	FM	PORTL	None	88.5 Hz	88.5 Hz	Off	
14											
15											
16											
17	146.96000	146.36000	600 kHz	-DUP	FM	PORTL	None	88.5 Hz	88.5 Hz	Off	
18											
19	147.34000	147.94000	600 kHz	+DUP	FM	HILSB	None	88.5 Hz	88.5 Hz	Off	
20											
21	145.15000	144.55000	600 kHz	-DUP	FM	HOOD	Tone	94.8 Hz	94.8 Hz	Off	
22	147.10000	147.70000	600 kHz	+DUP	FM	HOOD	Tone	100.0 Hz	100.0 Hz	Off	
23											
24											
25	145.37000	144.77000	600 kHz	-DUP	FM	VANCO	Tone	123.0 Hz	123.0 Hz	Off	AB7F
26											
27											
28											
29											

Accessories

- Speaker mike
- Headset with mike
- Software to load frequencies
- Gain antenna
- Copy of operator manual
- Quick operator guide

Power accessories

- AA battery pack
- Spare batteries
- Cigarette lighter power cord
- Battery charger for rechargeable battery pack

Activities to learn

- Communications at a parade
- Scout/family activities
- Mobile substitute
- Emergencies
- Satellite QSOs
- Check in on regular nets
- Contest operation
- Fox hunting

Questions and (hopefully) good answers