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ARES



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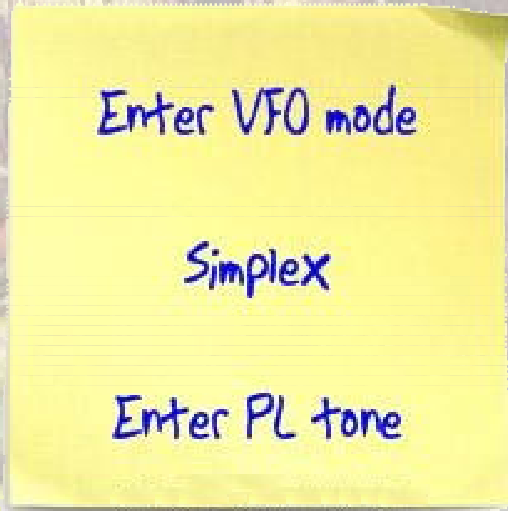
# A Tower of Babel!

## RADIO PROGRAMMING LINGO



# Getting started

- Make a copy of your manual or download a copy
- Use a highlighter
- Use Post-it Notes



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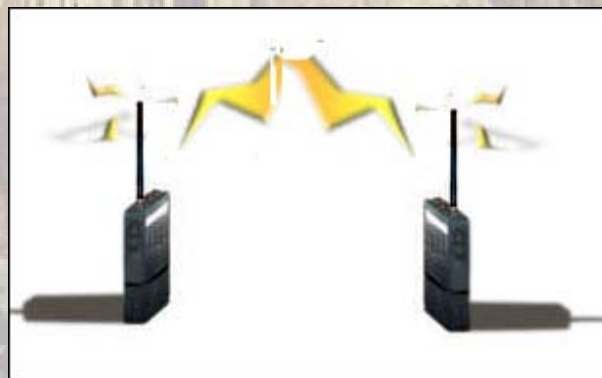
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# Repeaters & Simplex

- Repeaters



- Simplex



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# Variable Frequency Oscillator mode

- VFO — Pick your frequency!



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# Repeater Shift / Offset

On the Two Meter Band the standard repeater offset is 600kHz.

*Minus - Offset*

146.000

- .600

145.400

*Plus + Offset*

146.000

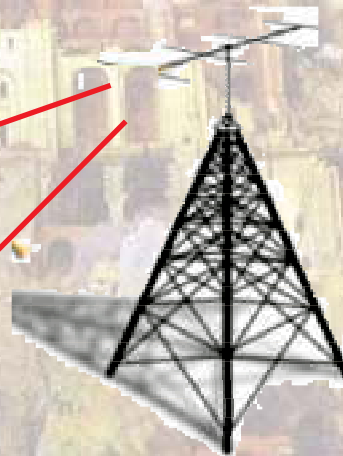
+ .600

146.600

Input

Output

146.000



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# CTCSS and PL tones

- Motorola developed CTCSS & PL  
“*Continuous Tone Coded Squelch System*”  
or “*CTCSS*” for short, and patented it as  
“*PL*” short for “*Private Line*”

**Mother may I?** *Open the Repeater!*



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# Program a Repeater Frequency...

## BARK Repeater: 146.970 *Minus* PL 123.0

- **Enter VFO**  
*Variable Frequency Oscillator mode*
- Enter frequency- use key pad **146.970**
- Turn **ON “Repeater Offset”** set to “-”  
*a function / menu choice*
- Turn **ON “CTCSS or PL”**
- Select Tone **“123.0”**



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# Program a Simplex Frequency...

## ARES Simplex: 147.510

- **Enter VFO**  
*Variable Frequency Oscillator mode*
- **Enter frequency-** use key pad *147.510*
- **Turn OFF “Repeater Offset”**  
*a function / menu choice*
- **Turn OFF “CTCSS or PL”**



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# If using a HT, find the LOCK key...



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