



Using Repeaters

Chapter 6.3





Using a repeater

What you need to know

- 1) Output Frequency (published)
- 2) Input Frequency (+/- offset)
- 3) Access tone/code (CTCSS / PL / DCS)





Finding a repeater

ARRL Repeater Directory
 Repeaterbook.com (good app!)
 Check clubs homepage
 Use the radio scan function

Standard repeater offset per band

2 m : +/- 0.6 MHz

1.25 m : +/- 1.6 MHz

70 cm: +/- 5.0 MHz

145.1800	-0.6 MHz	131.8 / 146.2	Santa Ynez, Santa Ynez Peak	Santa Barbara	K6TZ	OPEN	FM AllStar	+
145.1900	-0.6 MHz	88.5	Guerneville, Mt Jackson	Sonoma	K6CDF	OPEN	FM	+
145.1900	-0.6 MHz	162.2	Sacramento, Folsom Lake	Sacramento	K6IS	OPEN	FM EchoLink IRLP	+
145.1900	-0.6 MHz	151.4 / 151.4	San Jose, Santa Teresa Foothills	Santa Clara	WA2IBM	OPEN	FM EchoLink	+
145.2000	-0.6 MHz	NAC 411 100.0 / 103.5	Arcadia	Los Angeles	N6AH	OPEN	FM P-25	+
145.2000	-0.6 MHz	114.8	Juniper Hills	Los Angeles	KD6KTQ	OPEN	FM	+
145.2000	-0.6 MHz	127.3 / 127.3	Ojai, Sulphur Mountain	Ventura	WD6EBY	OPEN	FM	+
145.2000	-0.6 MHz	131.8 / 131.8	Palm Springs, Tram 2	Riverside	W6DRA	OPEN	FM	+
145.2000	-0.6 MHz		Santa Clarita	Los Angeles	KI6AIT	PRIVATE	FM	+
145.2100	-0.6 MHz	100.0	Bakersfield	Kern	KF6JQJ	OPEN	FM EchoLink	+
145.2100	-0.6 MHz	123.0	San Jose	Santa Clara	KD6YYJ	OPEN	FM	○
145.2100	-0.6 MHz		Soledad	Monterey	N6HU	CLOSED	FM	○
145.2100	-0.6 MHz	100.0	Tracy, Mt Delux	San Joaquin	WA6SEK	OPEN	FM	+
145.2100	-0.6 MHz	127.3 / 127.3	Yuba City	Sutter	N6IQY	OPEN	FM	+
145.2200	-0.6 MHz	114.8	Barstow, Flash II	San Bernardino	K6ITR	OPEN	FM	+
145.2200	-0.6 MHz	103.5	Lake Forest, Santiago Peak	Orange	K6ITR	PRIVATE	FM	+
145.2300	-0.6 MHz	141.3	Fresno, Bear Mountain	Fresno	W6FSC	OPEN	FM	+
145.2300	-0.6 MHz	100.0 / 100.0	Palo Alto	Santa Clara	N6NFI	OPEN	FM EchoLink	+
145.2300	-0.6 MHz	162.2	Sacramento	Sacramento	KC6MHT	OPEN	FM	+
145.2400	-0.6 MHz	127.3 / 127.3	Chatsworth, Chatsworth Peak	Ventura	WD6EBY	OPEN	FM	+
145.2400	-0.6 MHz	123.0 / 123.0	La Mesa	San Diego	WA6HYQ	OPEN	FM	+
145.2400	-0.6 MHz	110.9	Trabuco Canyon	Orange	K6SOA	OPEN	FM	+
145.2500	-0.6 MHz		Hayward	Alameda	KQ6RC	CLOSED	FM EchoLink	○
145.2500	-0.6 MHz	141.3	Meadow Lakes	Fresno	KJ6CE	OPEN	FM	+
145.2500	-0.6 MHz	162.2 / 162.2	Shingle Springs	El Dorado	N6NA	OPEN	FM AllStar EchoLink	+
145.2500	-0.6 MHz	123.0	Sunnyvale, Moffett Field	Santa Clara	NA6MF	OPEN	FM	+
145.2600	-0.6 MHz	107.2	Chula Vista	San Diego	KK6KD	OPEN	FM	+



Accessing / Controlling the repeater

CTCSS / PL

- Subaudible tone – must be programmed in your radio

DCS

- Digital code – must be programmed in your radio

DTMF

- Used to invoke various features on the repeater
- Parrot
- Repeater links
- Activate/deactivate timers





Digital Repeater Systems

IRLP (Internet Radio Linking Project)

- Connects two repeaters over Internet

EchoLink*

- Lets you access a repeater from a phone/computer directly

System Fusion, D-Star, DMR*

- Digital voice modes
- Chatrooms, called "Talk Groups"
- Access via repeater or own hotspot connected to Internet

* EchoLink & DMR require registration of license online





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**SIERRA FOOTHILLS
AMATEUR RADIO CLUB**
www.w6ek.org