

KC7IEU's Guide to the Yaseu VX5r

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incomplete

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Different Modes on the Yaseu VX5r

VFO	
<i>mode 1</i>	the default mode
The 'ready to use' state of the radio, ready to enter frequencies freeform, ready to transmit and ready use all other modes.	
To enter, touch VFO .	
There are two VFO slots or memories in each BAND. (A total of 20 VFO memories!)	You might use VFO mode to: ? Quick enter a freq. & talk. ? Save a new freq. to
To change between the Va & Vb in a band, touch VFO .	? Dual watch (monitor 2 freq.) ? Basic Mode operation when
To change bands (and VFO pairs) touch BAND .	no special mode is
In VFO enter any frequency directly on the keypad .	In VFO change the frequency by turning the dial .
If your freq. does not have 3 digits right of the decimal, touch VFO to enter (or add VFO acts a little differently if SET# 05 VFO is set to band. Dial turning stays within a	To make the dial work faster, touch F then turn dial . SET #11 changes the 'frequency step', how much the dial changes the freq.
To copy a memory chan into the current VFO, switch to the mem, hold FW, touch VFO .	Touch VFO to exit most other modes and return to default. To save a Memory Channel, set it up in VFO first then hold FW, dial, touch FW .

Weather Radio	
<i>mode 4</i>	daily use
Use government weather channels for best current forecast. To enter hold 0 , to exit, touch VFO .	
To scan pre-set Channels hold VFO or hold MR .	Frequencies are pre-set and cannot be changed or saved.
You can set up a name for each channel using SET #03.	

Setup	
<i>mode 2</i>	very important
Allows you to adjust many settings. To enter, F-BAND . To exit, touch PTT .	
There are 45 setup slots. A dozen have a different value for each memory channel.	A couple vary by band. They can be categorized into 4 functional groups: control , customization , features & memory channels .
Turning the dial moves through the different slots.	They are not arranged in order by function, but unfortunately seem random. (see SET page for
To change the value of a slot, touch BAND , (notice the S , on the lower left) turn the dial to the desired setting and then touch BAND again.	There are shortcuts into certain SETup slots almost all of the buttons on the keypad, labeled in orange.
If you enter SET 1 with one of these orange shortcuts, you can touch the same key to save and exit.	To use the orange feature of a button, touch FW first.

Charging	
<i>mode 5</i>	frequent
Recharge the onboard battery. To enter, plug the charger into the radio! To exit, unplug!	
Full charge in as little as 2 hrs. The LED displays yellow during charging and green when fully charged.	There's a built-in smart charger for battery conditioning so it's OK to charge it when it's only partially discharged.
The LCD displays "charging" during charging and "charged" when complete.	You can turn the radio on and receive while on wall power. It won't transmit on wall power.
<i>I wish it would beep when charging was complete.</i>	You can use 3 AA batteries in the case for fallback.

Memory Channels	
<i>mode 3</i>	most often used mode
Store and access frequencies with details. To enter, touch MR . To exit, touch VFO .	
There are 220 memories for you to store commonly used frequencies of any kind.	To save a memory channel, switch to VFO, choose the frequency, power level and all of the 12 memory SET functions, then hold FW , dial to the desired channel and touch FW . (see saving page!)
To recall a memory, touch the memory number on the keypad and touch MR .	Use the dial to move through the visible memories.
Use the dial to move through the visible memories.	Masked channels are hidden. To hide a memory hold FW , then touch MR . All memories start out hidden until something is first saved.
Masked channels are hidden. To hide a memory hold FW , then touch MR . All memories start out hidden until something is first saved.	An asterisk is displayed next to the channel number during save to indicate a memory that has NEVER been used. Memories cannot be erased, (i wish!) mask them instead.
Each memory contains 14 items including: Frequency, Offset, Tone, name, tuning step and more (see MODES).	To copy a memory chan into the current VFO, switch to the mem, hold FW, touch VFO .
When in memory mode you cannot change the frequency. Touch MR , while in Memory mode to switch to MT mode to enter a frequency on the keypad or using the dial.	To change The Priority Channel, switch to that mem, hold FW , then touch BAND . You can start the radio in Memory Only mode, which disables all other modes: hold MR while turning the radio on. To exit Memory Only turn the radio off. and on again.
To update current memory (if changed) hold FW, touch 0 . <i>I wish it would display memory contents (frequency & name) while choosing a channel to save to.</i>	During save, the dial moves through channels. <i>I wish keypad worked.</i>
<i>I wish for a feature to move a mem from a channel to another or swap 2 channels. (Now: save to VFO, then save that to new channel.)</i>	<i>I wish it would clear a channel (or a VFO) to get the asterisk back.</i> <i>I wish there were a channel only mode, with only the name displayed.</i>

Scanning	
mode 6	very useful
Search for a signal, checking many frequencies rapidly.	
To exit, touch VFO .	
To continue a scan that's stopped on a signal, use the dial .	
To scan all frequencies, in VFO hold VFO . The increment can be set up in SET#11	To scan memory channels, in memory mode hold MR .
SET#12 controls what happens when a signal is found: continue after 5 sec, continue when signal ends, or stop	To set a channel to be skipped in scans, browse to the channel then F-MR . Automatically saved.
To scan a specific range, save the range limits in the U/L band limit memories first.	You can set up a preferential bank of memories for scanning by marking each with a musical note. To mark: browse to the channel then F-MR , F-MR .
To start scan, dial to the <i>Upper</i> or <i>Lower</i> channel of a band limit pair (ie <i>U8</i>) and touch MR . The <i>MR</i> in the left corner will change to <i>PMS</i> for Preferential Memory Scan.	To start a preferential scan, browse to a marked channel then hold MR .
Now hold VFO	For the PMS to work there must be <u>no signal</u> on the <i>L</i> or <i>U</i> channel. Else it goes to <i>MT</i> .

Dual Watch	
mode 7	very useful
Monitor 2 frequencies simultaneously.	
To exit, touch VFO .	
There are three varieties of dual watch:	
1. <u>A Memory with The Priority Memory</u> .	
Switch to the memory you want, then F-VFO .	
2. <u>Any frequency entered into VFO with The Priority Memory</u> .	
Enter the frequency in a VFO, then F-VFO .	
3. <u>Two frequencies entered in both VFOs</u> , (the best option)	
Enter the frequencies in the two VFOs, then F-+VFO .	
The Radio actually stays on one frequency, but switches for 0.2 seconds every 4 seconds to the secondary.	If VFO link SET #10 is on, both VFOs must be on the same band, but if it is off, you can use different bands!
It is helpful if you set the display to show two frequencies first using hold 1 .	PTT will transmit on which ever of the two frequencies had the most recent traffic.
Will NOT work if either frequency has a constant carrier (ie a broadcast station).	To change priority memory, switch to that memory, hold FW , then touch BAND .

Cloning	
mode 8	very helpful
Bulk transfer of memory and setting information.	
To exit, power off .	
Hold FW while turning the radio on. The LCD will say <i>Clone</i> . You must choose transmit or receive.	Cloning lets you transfer the memories from one radio directly into another.
To make this radio send it's memories, touch VFO .	The radios must be connected with a special cable which plugs into the speaker mic jack.
To make this radio receive new memories, touch MR .	<i>Wouldn't it be cool if the radio transmitted the data between radios on 70cm, instead of requiring a cable?!</i>
These programs which, using the cloning cable, will upload mems from the radio, maintain lists, allow you to change mems, add new ones (more easily!) and download it all to the radio.	The official program is called <i>ADMS-1</i> , however there are a couple of free ones on the internet. One called <i>VX5 Commander</i> and one called <i>FVE</i> which works very well.

Memory Groups	
mode 9	occasional
Use or scan a few memories in a defined <i>bank</i> .	
To enter, hold 4 , to exit, touch VFO .	
To enter MG mode, hold 4 , then browse with the dial , and touch MR to choose a bank.	To add a Memory Channel to a MG bank, browse to the desired channel, hold FW , then touch a digit 1-5 for the desired bank.
There are 5 banks, or groups of the 220 basic memories.	

text entry	
mode 10	occasionally necessary
Enter alphabetic names for memories.	
To enter, F-BAND , dial to 03, touch BAND .	
Text can be entered: SET #03 -- Mem Chan Tag SET #33 -- ARTS Callsign SET #42 -- Meter Symbol	Touch BAND to enter 1st char. Choose character with the dial .
To enter current character and move to the next, touch	To jump forward through the character sets, touch HM/RV .
To repeat the previous character touch FW .	To jump backwards through the character sets, touch
To clear all characters after the current one, touch MR .	SEIS: space (start of symbols), A (start of capitols), Z (end of capitols), a (start of lowercase), z (end of lowercase), (followed by six sets of Japanese)
To save the text at any point, touch PTT .	

DTMF memory banks	
mode 11	occasionally necessary
Save and replay touch tones for repeaters & autopatch.	
To turn on, hold 3 . To turn off hold 3 .	
To save a string of touch tone digits in a DTMF memory, touch F-BAND , and dial to one of the 9 memories. Touch BAND to choose the one to editing the chosen string.	To transmit the contents of a DTMF memory first touch F-3 , to turn on DTMF mode & icon. While holding PTT (and with DTMF icon turned on) touch digit representing the memory. Be sure to turn DTMF mode off (touch F-3) to avoid accidentally transmitting another memory and to make other keys work again.
Enter digits using keypad (including ABCD*#).	
[MON] enters a hyphen.	
[MON] [MON] erases to end	
To save the string, touch PTT .	<i>I wish the DTMF mode would turn off automatically after one use!</i>

Battery Management	
<i>mode 12</i>	good reference
Battery status indicators	
To exit hold 2 .	
The <i>usage timer</i> tracks the amount of time on but idle and transmitting since it was	The battery status function displays the current voltage of the battery and can be used as a guide to when charging is necessary.
To display usage timer, hold	To view battery status hold 3 .
To reset usage time, first display it, then hold FW, touch	SET #14, 15 & 16 control battery life. See <i>SET commands</i> .

Weather Monitoring	
<i>mode 13</i>	occasionally useful
Temperature, Barometer and Altimeter	
To exit hold 2 .	
Hold 7 displays the temperature in Celsius INSIDE the radio. This only reflects the ambient temp if the radio has been turned off for awhile.	If the barometer accessory is installed, hold 8 will display the pressure and hold 9 the altitude.
<i>I wish you could enter the calibration on the keypad instead of only the dial, and perhaps save one (home?)!</i>	SET #43 & 44 set a calibration for the <i>bar & alt</i> . Be careful as these work against each other! SET #45 will display Temp, Bar
The Barometer (in either hold 9 mode or OFF mode) will display a graph updated every	&/or Alt when the radio is OFF. Be careful of the battery! Altimeter is in meters only.

Tone Search	
<i>mode 14</i>	occasionally useful
Determine the CTCSS/DCS tone code on a received signal.	
Touch PTT or VFO to exit.	
This cool mode can find the (ostensibly secret) tone code on an incoming signal.	Touch F-BAND , and dial , to SET #29 (TONE SQL) or SET #30 (DCS) whichever, you suspect the signal is using.
The tone will stop and flash when (if) the correct one is found.	Then, while receiving the signal and in SET, hold VFO .

Spectrum Analyzer	
<i>mode 15</i>	almost never
Graphically shows activity on frequencies near a chosen one.	
To enter, FW-L . To exit F-L .	
This different kind of scan visually displays activity & signal strength on nearby frequencies.	Eleven frequencies are shown, 5 above and 5 below VFOa. The frequencies are determined by the tuning step (SET#11). That will be the spacing between frequencies on the graph.
SET#34 controls whether the graph is updated continuously, or only when you turn the dial .	

Smart Search	
<i>mode 16</i>	almost never
Search for all channels with activity.	
To enter, hold FW , then touch L . To exit F-L .	
Switch to VFO mode and set a frequency in the middle of the band you want to search (ie 100.000 for FM broadcast or 145.500 for 2m).	You can let it run for a while looking for repeater activity, or let it run once through looking for broadcast activity.
To start the search hold FW, touch L , then touch VFO .	It will fill 15 mems above and 15 below the VFO frequency. SET#35 controls whether the search makes ONE pass, or continues until all 31 search memories are full.
To move a found frequency into VFO, dial to that search mem, hold FW , then touch	

ARTS	
<i>mode 17</i>	never
Notifies you when another radio running ARTS is in range.	
To exit, hold BAND .	
To start, hold BAND .	Requires more than one Yaseu radio.
The radio cannot be used for listening (or transmitting) while ARTS is enabled.	It is not uncommon for this annoying mode to be turned on accidentally, because it is such an easy, common key.
SET#18 sets up if it beeps only when in range or not.	The only good part is that you can play your callsign in CW, go to SET#33 and touch BAND , then touch FW .
SET#19 sets up how often the radio sends it's notification.	
SET#33 sets your call sign to be sent in CW to keep legal.	

Emergency Alarm	
mode 18	never
Radio emits a loud beeping, and allows you to transmit the beeping on 70cm home channel if you like.	
To exit, hold HM/RV or hold power .	
To start hold HM/RV .	When this alarm is started, the radio will switch to the 70 cm HOME frequency, flash the light and repeatedly beep.
To transmit the beeping on the 70cm HOME chan (only choice), hold PTT while it is NOT disabled by turning off SET #20 KEY BEEP.	

BANDS	
mode 21	important to remember
How frequencies are thought of when using the radio.	
Not a 'mode' but an idea.	
Always remember that the concept of a BAND is completely arbitrary -- defined only by agreement.	This radio receives a huge section of spectrum and allows you to use that spectrum as ONE SINGLE BAND, or as split into 10 arbitrary bands.
In most modes, the BAND , key jumps to the next preset band, regardless of SET status.	SET #5 VFO = BAND, then browsing or scanning through frequencies (in VFO mode) will <i>wrap around</i> when reaching the end of the band. If it is set to ALL, it will continue throughout the spectrum.
SET #10 VFO Link will make VFOa and VFOb change together. (They must be set on the same band for SET#10 to allow the change).	
The ten bands are:	
HAM- 6m	48-59 mHz
HAM- 2m	137-174 mHz
HAM- 0.7m aviation	420-470 mHz
"action" 1 (business & government)	108-137 mHz
"action" 2 (business & government)	222-420 mHz
broadcast- AM	800-999 mHz
broadcast- SW	0.5-1.8 mHz
broadcast- FM	1.8-16 mHz
broadcast- TV	59-108 mHz
	174-222 & 470-729 mHz

Alignment	
mode 19	almost never
Adjust values of squelch and power settings!!	
To exit, with out saving changes, shut the radio off.	
This radio has a fascinating mode which allows you to adjust some basic settings including exactly what the squelch levels are and what each of the 4 transmit power	To enter, shut radio off, then hold BAND-TX/PO-0-PWR together .
Exit <i>without saving</i> hold	VFOa MUST have a valid 2m 70cm or 6m frequency, ideally in the center of the band
Exit <i>saving</i> changes touch HM/RV	to change a setting, touch MR , then use the dial
<i>The four power levels and the squelch dynamic.</i>	To calibrate a different band (HAM only), touch BAND Squelch top and bottom.
settings controlled with the dial	settings controlled by reception
HI POWER HF VHF UHF	THIS SQL HF VHF UHF
L3 POWER HF VHF UHF	TIGH SQL HF VHF UHF
L2 POWER HF VHF UHF	S1 LEVELN HF VHF UHF
L1 POWER HF VHF UHF	S9 LEVELN HF VHF UHF
HIS SQL HF VHF UHF	S1 LEVELW HF VHF UHF
The factory TX power levels are 5.0, 2.5, 1.0 & 0.3 watts.	S9 LEVELW HF VHF UHF
The actual value shown in for each power level is an arbitrary number that does not translate into a power reading. The readings seem to go from 14 to 100. lower for stronger signals.	To set S1, the lowest squelch level, tune to a weak frequency, a level that you want as S1, touch MR, touch
Set L1 power to 0, save that in a channel prevent accidentally inadvertent transmission.	Set S9, the highest level, the same way with a strong signal. Use another radio to generate the signal to have more control. Better yet use two VX5s in Alignment mode!
To restore or change the accidentally changed auto settings, tune to an active repeater for your signal.	The 'auto' modes can be used as signal strength meter to compare radios or antennas, just DON'T SAVE IT!!
These values are not saved or loaded with cloning nor with computer programs and are NOT reset with a full radio reset!!!	

Reset	
mode 20	almost never
Return the radio to the factory settings.	
<i>To clear all memories and reset the entire radio:</i>	<i>To reset only the 45 SET functions:</i>
simultaneously press the entire key combination MR, VFO, 4 and Power , and hold for 2 seconds , then touch FW .	simultaneously press the entire key combination MR, VFO and Power , and hold for 2 seconds , then touch FW .

Mods	
mode 22	an important option
Change the transmit range of the radio.	
Not a 'mode' but a process.	
The fully opened transmit modification allows transmission on Marine bands, FRS walkie talkie bands (at low power), or if you have a business license, on that frequency. This is very useful as the VX5 then does the job of 3 or 4 different radios!	There are two methods to modify the radio, one, with a soldering iron, and the other using the EVE computer program. The blocked cellphone bands cannot be turned on in any way at all. Like it or not, the radio is built without them.

Banks Of Memories in the Yaseu VX5r

Memory Channels	
220 total memories.	
Saves a complete frequency set up for later recall and use. Like a 'File Cabinet'	
1	
2	
3	
...	
219	
220	
<i>Use ##-MR or dial to select</i>	
Use +FW+FW to save a channel. <i>See full instructions on Channel page.</i>	
Settings saved in each channel.	
frequency	keypad
repeater offset	SET #07
offset amount	SET #08
tone squelch type	SET #29
tone code	SET #30
DCS code	SET #31
half deviation	SET #38
receive mode	SET #36
name	SET #03
icon	SET #04
tuning step	SET #11
clock shift	SET #28
power level	TX/PO
channel skip	F-MR
A preferential channel	F-MR F-MR
The priority channel	+F-BAND

Memory Groups	
Use a channel group (ie Police). Not memories, but rather banks of Channels 1-	
MG1	
MG2	
MG3	
MG4	
MG5	
<i>Use F-4 MG to enter Group mode, dial to browse groups and then MR to select group</i>	
To add a channel to a group: browse to the desired memory channel, then +FW followed by the number of the group you want to add it to (1,2,3,4 or 5). I have never found a way to remove a channel from a group (except the EVE computer program.)	

Workspace		
VFO a	VFO b	Home
30 total memories.		
Default mode. Allows keypad & dial entry of frequencies.		Main freq. on each band.
HAM- 6m (48-59 mHz)		
HAM- 2m (137-174 mHz)		
HAM- 0.7m (420-470 mHz)		
aviation (108-137 mHz)		
"action" 1 (222-420) (business & government)		
"action" 2 (800-999) (business & government)		
broadcast- AM (0.5-1.8 mHz)		
broadcast- SW (1.8-16 mHz)		
broadcast- FM (59-108 mHz)		
broadcast- TV (174-222 & 470-729 mHz)		
<i>Use VFO to enter mode.</i>		<i>Use HM.</i>
<i>Use BAND to cycle through bands.</i>		
Use +FW-VFO to save mem to VFO, enter on keypad for new VFO.		Use +FW-HM to save a new one.

Scan Edge Limits	
Set custom bands for scanning in VFO. Or use as more memories, they are the same.	
U1	L1
U2	L2
U3	L3
U4	L4
U5	L5
U6	L6
U7	L7
U8	L8
U9	L9
U10	L10
<i>Use MR then the dial to select. Then MR (see PMS) and VFO to start scan.</i>	
Saved exactly the same way as the main 1-220 Channels.	

Weather Channels		
Tunes or scans government weather channels for best current forecast.		
1	162.550	Seattle Vancouver Portland
2	162.400	Port Angeles Astoria
3	162.475	Victoria Olympia
4	162.425	Forks Port Townsend marine
5	162.450	
6	162.500	
7	162.525	Okanogan
8	161.650	
9	161.775	
10	163.275	
<i>Use +WX to enter weather mode then dial to select channel</i>		
Frequencies cannot be changed, but a name tag may be added		

Television Channels	
Bank of pre-set TV channels	
2	
3	
4	KOMO
5	KING
...	
60	
61	
62	
<i>I've read about this, seen it in the EVE computer program, but never figured out how to use it or if it really exists..</i>	
Frequencies cannot be changed, but a name tag may be added	

Smart Scan Results	
Scans for a signal around the current VFO frequency and saves those freqs.	
	-15
	-14
	...
	-2
	-1
	0
	1
	2
	...
	13
	14
	15
<i>Transfer a result into a main Channel by treating it as a VFO.</i>	
+FW-L then VFO populates these memories, half above and half below the current VFO frequency which is put in 0.	

DTMF tone strings	
Stores & replays strings of touch tones, (phone numbers and/or repeater controls).	
	1
	2
	3
	4
	5
	6
	7
	8
	9
<i>F-3 turns on DTMF, then with PTT pressed, choose memory #. Be sure to F-3 to turn off DTMF afterwards!</i>	
SET #32, BAND, turn dial to memory, then BAND, enter code on keypad, then PTT to save.	

Functions of keypad buttons on the Yaseu VX5r

all buttons have THREE primary functions.

button name	<u>touch</u>	<u>function</u>	<u>hold</u>	<u>hold F</u>	<u>DTMF</u>
	<i>btn</i>	<i>F- btn</i>	<i>+ btn</i>	<i>+F- btn</i>	
	brief press	press F/W first	hold for 1.5 seconds	hold F/W for 1.5 seconds first	
	a dash (-) always means press these keys in succession		or sometimes + 4 MG or + 4 (MG) DSP		
power	<i>no function</i>	<i>no function</i>	PWR CONTROL power up radio	<i>no function?</i>	<i>none</i>
LIGHT	FEATURE turn backlight on	FEATURE start Spectrum Analyzer	FEATURE turn backlight on until pressed	FEATURE start Smart Search	<i>none</i>
FW	META button function shift	<i>no function</i>	CONTROL save memory	<i>no function?</i>	A
BAND	CONTROL switch bands in VFO	SET META <i>misc. (the change & save button)</i>	AR FEATURE start ARTS range finder	<i>no function?</i>	B
HM/RV	CONTROL switch to this band's Home freq	<i>no function</i>	EMG FEATURE start stupid emergency thingy	<i>no function?</i>	C
TX PO	CONTROL change the transmit power level	LOCK FEATURE lockout keyboard	<i>no function</i>	<i>no function?</i>	D
1	ENTRY enter the digit 1	TN <i>SHORTCUT to 29</i> set tone squelch	FRQ DISPLAY two line w/ 2 freqs	CONTROL add mem to Group 1	1
4	ENTRY enter the digit 4	MG FEATURE enter grouped mem banks	DSP DISPLAY one line w/ large display	CONTROL add mem to Group 4	4
7	ENTRY enter the digit 7	ST <i>SHORTCUT to 11</i> dial freq step	TMP DISPLAY two line w/ temperature	<i>no function?</i>	7
2	ENTRY enter the digit 2	CD <i>SHORTCUT to 30/31</i> tone squelch code	TAG DISPLAY two line w/ description	CONTROL add mem to Group 2	2
5	ENTRY enter the digit 5	AP <i>SHORTCUT to 16</i> auto power off	ICO DISPLAY two line w/ icon	CONTROL add mem to Group 5	5
8	ENTRY enter the digit 8	<i>no function</i>	BRO DISPLAY two line w/ barometer	<i>no function?</i>	8
3	ENTRY enter the digit 3	DT FEATURE send DTMF memory	VLT DISPLAY two line w/ batt voltage	CONTROL add mem to Group 3	3
6	ENTRY enter the digit 6	RP <i>SHORTCUT to 07</i> repeater shift	ONT DISPLAY two line w/ usage time	FEATURE clear on timer (if displayed)	6
9	ENTRY enter the digit 9	BP <i>SHORTCUT to 20</i> key beep	ALT DISPLAY two line w/ altimeter	<i>no function?</i>	9
MR	CONTROL switch into memory mode	SKP SPECIAL set memory skip	SC FEATURE scan up	<i>no function?</i>	E/*
0	ENTRY enter the digit 0	SQ <i>SHORTCUT to 01</i> squelch level	WX FEATURE weather channels	CONTROL resave current memory	<i>none</i>
VFO	CONTROL switch into VFO mode	DW FEATURE dual watch	SC FEATURE scan down	<i>no function?</i>	F/#
dial	CONTROL change frequency by <i>freq step</i> .	DW CONTROL change freq. by 1 mHz.			

Descriptions of SET functions on the Yaseu VX5r

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance	button (wish)	set up bank	type of command
1	SQUELCH	<i>sqlch level</i>	Background noise is generally silenced -- this changes the strength of signal that is allowed to pass through.	-varies-	1 - 10	F-0 SQ WX	a	1	1	control
2	WFM SQL	<i>wide FM sqlch</i>	Same as #1 except for broadcast FM and Television transmissions which are 1 MHz wide.	-varies-	1 - 10				1	control
3	NAME SET	<i>text description</i>	A 1 to 8 character 'tag' (name) that you set for a memory channel to label it. Displayed with +2.	<i>saved with each memory</i>	<i>infinite</i>		b	9	3	memory
4	ICON	<i>icon selection</i>	Allows you to from a group of goofy pictures to use to label a memory channel. Displayed with +5.	<i>saved with each memory</i>	<i>many</i>				3	memory
5	VFO	<i>VFO band edges</i>	Determines whether functions (such as VFO, HOME etc) are forced into a multi-band operation, or if they appear operate as one large 0.5-1000 MHz band.	all	all, band				6	customize
6	ARS	<i>automatic repeater shift</i>	When on, causes the radio to guess repeater offset and shift based on the frequency. Guesses tend to be right 99% of the time, however it can be manually set with SET #7 and SET #8.	<i>saved with each band</i>	on, off		b		1	control
7	RPT SHIFT	<i>repeater shift direction</i>	Set the repeater shift: up, down or simplex. When SET #6 is on, this is automatically chosen (and it is right 99% of the time.	<i>saved with each memory</i>	<i>simp, +rpt, -rpt</i>	F-6 RP ONT	a	5	3	memory
8	SHIFT	<i>repeater offset</i>	Set the repeater offset in MHz. When SET #6 is on, this is automatically chosen (and it is right 99% of the time.	<i>saved with each memory</i>	<i>x.xx mhz</i>				3	memory
9	VFO SPLIT	<i>non-standard offset</i>	If you want to set up an unusual frequency pair for repeater operation, you can set the two frequencies up in VFOa and VFOb and with this on, operate with the main (active VFO) is the receive and the sub the transmit.		on, off				3	memory
10	VFO LINK	<i>VFOs change together</i>	The two VFOs can be linked to always be on the same band at the same time. If this is off, they function independently. Before you can turn this on you must adjust both VFOs to the same band!	off	on, off				6	customize
11	VFO STEP	<i>tuning step</i>	Adjusts the amount that the dial changes the frequency with each click.	<i>saved with each memory</i>	5, 10, 12.5, 15, 20, 25, 50, 100	F-7 ST TMP	a	2	1	control
12	RESUME	<i>scan resume mode</i>	Controls scanning behavior when a signal is found. It can stop on the signal for 5 seconds then continue scanning, stop until the signal goes away or stop completely. If you choose <i>busy</i> , you have to used the knob (or skip function in the memories) skip constant carrier frequencies such as broadcast radio.	busy	5sec, busy, hold				6	customize

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance	button (wish)	set up bank	type of command
13	SCAN LAMP	<i>lamp on when scan stops</i>	Turns on the backlight when the scanner finds a signal.	off	on, off				6	customize
14	RX SAVE	<i>receive batt saver</i>	Uses less battery, but can interfere slightly with reception (actually periodically shuts down the radio for a few micro-seconds).	500ms (1:2.5)	.200, .300, .500, 1, 2		a	7	1	control
15	TX SAVE	<i>transmit batt saver</i>	Lowers power on second transmission if response is very strong.	on	on, off		b		1	control
16	APO	<i>auto power off</i>	Turns the radio off after a period of time with no activity on the keypad or dial. <i>(If Key Beep is off, the radio does NOT beep or alert you when it is shutting down, which is frustrating.)</i>	off	off, 30, 1hr, 3hr, 5hr, 8hr	F-5 AP ICO	c	11	6	customize
17	BUSY LED	<i>busy led</i>	Shuts off the LED on the top of the radio which indicates TX (red), RX (green) or charging (yellow). Saves a little bit of battery power. <i>(I wish you could control which of the three operated the LED instead of only having an on and off.)</i>	off	on, off				1	control
18	ARTS BEEP	<i>beep on during ARTS</i>	Controls when the radio audibly alerts during range finding operation.	in range	off, in range, always				2	feature
19	ARTS ITVL	<i>ARTS polling interval</i>	Controls how often the radio checks for a nearby radio during range finding operation.	15sec	15sec, 25sec				2	feature
20	KEY BEEP	<i>key beep</i>	Turns off or on the audible indication of a keypress. <i>(Scan & Edge Beep & APO alarm are all disabled if Key Beep is off. I wish there were a series of selections of which to use and which not like with SET #37.)</i>	off	on, off	F-9 BP ALT	c		6	customize
21	EDGE BEEP	<i>beep at band edge in scan</i>	Turn on alert tone to indicate when passing a band boundary in scan or when tuning with the knob.	off	on, off				1	control
22	BELL	<i>tone bell ringer repetitions</i>	Turn on and adjust bell alert, which allows you to set a 'ring' to alert you when a call is made to you with the correct CTCSS tone (like FRS radios use).	off	off, 1, 3, 5, 8, repeat		c		2	feature
23	MON/T-CAL	<i>moni becomes tone burst</i>	Change the function of the moni key to either open squelch all the way, or to send the tone to open up European repeaters.	mon	mon, t-cal				6	customize
24	HOME/REV	<i>Home reverses rep freqs</i>	Change the function of the HOME/REV key to either jump to home frequency in current band, or to reverse the frequency pair in a repeater operation setup.	home	home, rev				6	customize
25	LAMP MODE	<i>lamp button action</i>	Set how the L key controls the backlight, toggle on and off, on for 5 seconds and then auto off, or on for 5 seconds whenever any key is pressed.	toggle	toggle, 5sec, key				6	customize
26	TOT	<i>TX auto shut off</i>	Shut off the transmitter after a certain amount of time on. Useful protection against accidentally pressing PTT.	1min	1, 2.5, 5, 10, off				1	control

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance	button (wish)	set up bank	type of command
27	BCLO	<i>disable TX on busy</i>	Prevents transmission on a busy channel. Can be useful, to prevent interference with a station which is muted due to a tone squelch, a broadcast channel or just regular traffic. However it can cause problems with repeater operation and completely prevents autopatch repeater operation and it is NOT saved with each memory channel, so it is rather useless.	off	on, off				6	customize
28	CLOCK SET	<i>change CPU clock</i>	Not really an on/off, but rather two different frequencies that the radio's CPU can operate on (different clock cycles emit different frequencies). Is necessary to improve performance on frequencies which have a resonance with the clock frequency. (The EVE software tells you when to shift it!)	<i>saved with each memory</i>	on, off				3	memory
29	SQL TYPE	<i>type of tone encoder</i>	Set up CTCSS sub-audible tone. This tone allows a certain level of control as to who hears you and who you hear. TONE sends a tone but does not require an incoming tone for reception, TONE SQL sends a tone and also requires it on RX, DCS works like TONE SQL only it's digital and compatible with many business radios. There is a tone search feature which can help you find a tone if you don't know it.	<i>saved with each memory</i>	off, tone, tone sql, dcs	F-1 TN FRQ a		3	3	memory
30	TONE SET	<i>CTCSS tone selection</i>	Set the tone code for <i>TONE</i> or <i>TONE SQL</i> using the dial to browse through the pre-set series. To search for a tone, set SET#29 set to TONE SQL, then while in SET#30 and receiving a signal, touch VFO .	<i>saved with each memory</i>	series	F-2 CD TAG a		4	3	memory
31	DCS SET	<i>DCS tone selection</i>	Set the tone code for <i>DCS</i> using the dial to browse through the pre-set series. To search for a tone, set SET#29 set to DCS, then while in SET#31 and receiving a signal, touch VFO .	<i>saved with each memory</i>	series	F-2 CD TAG a		4	3	memory
32	DTMF SET	<i>stored phone numbers</i>	Ten memories for storing DTMF strings for repeater control or phone numbers for autopatch. touch BAND to choose the memory with the dial , then touch BAND again lets you enter the number on the keypad. touch MONI to enter a dash and touch MONI twice to clear all numbers from the cursor to the end. PTT exits.	4 used	10 memories			b		2 feature
33	CW ID	<i>send callsign during ARTS</i>	Stores your callsign to be sent in CW when in ARTS mode. touch BAND to choose on/off with the dial , then touch BAND again lets you enter the characters with the dial , touch PTT to exit. You can send your callsign at will. When in SET#33 touch FW .	KC7IEU on	on, off					2 feature
34	SPEC-ANAL	<i>number of sweeps</i>	Determines whether the <i>Spectrum Analyzer</i> makes one sweep, or continues to sweep the nearby frequencies for traffic.	continue	single, continue					2 feature
35	SMRT SRCT	<i>one sweep or fill</i>	Determines whether the <i>Smart Search</i> makes one sweep, or continues to sweep the until all it's memories are filled (which could take a long time!)	continue	single, continue					2 feature

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance	button (wish)	set up bank	type of command
36	RX MODE	<i>bandwidth for receive</i>	Manually change the receive mode. Determines the amount of space on the band that the wave takes, 500 kHz or 1000. Wide FM is for broadcast FM and TV. AM is for AM broadcast and airband. Narrow FM covers pretty much everything else	<i>saved with each memory</i>	auto, N-FM, W-FM, AM				3	memory
37	LOCK MODE	<i>what keylock, locks</i>	Adjusts what is locked when you set keylock (F-TX/PO). This is extremely important if you keep the radio in a pocket or where it can get bumped... and if you are letting someone you don't trust babysit your radio, you can lock the PTT!!	KEY+DIAL	key+dial, ptt, key+ptt, dial+ptt, all, key, dial				6	customize
38	HALF DEV	<i>tighten TX bandwidth</i>	Cuts the transmit bandwidth to only 250 kHz -- in some cities this has recently been declared the standard, but unless everyone is set that way, it only makes your audio VERY quiet. Don't use it.	<i>saved with each memory</i>	on, off		a	6	3	memory
39	LANGUAGE	<i>display language</i>	Set up in English or Japanese (what, no Polish?)	english	english, japanese				6	customize
40	ON TIMER	<i>turns on radio later</i>	Sets radio to turn on in a set amount of time from 10 minutes to 24 hours. <i>This feature is a substitute for an alarm clock, since the radio does not have a real time clock.</i> NOTE: you must set this to off once the radio is on again to prevent it turning on again and again	off	off, time		b	10	1	control
41	CONTRAST	<i>screen contrast</i>	Adjusts the LCD screen for best viewing with given light, angle and eye strength.	5	1 - 10		a	8	1	control
42	MTR SYMB	<i>signal meter character</i>	Lets you customize the character for the signal strength meter at the bottom of the LCD screen. Choose from various shapes and characters, OR, enter a word or string of your choosing!	chr	many				6	customize
43	BARO OFST	<i>barometer offset</i>	If barometer chip is installed, this calibrates it. (Works AGAINST #44 -- you can really only use the barometer OR the altimeter.)	-varies-	infinite		c		2	feature
44	ALTI OFST	<i>altimeter offset</i>	If barometer chip is installed, this calibrates it. (Works AGAINST #43 -- you can really only use the barometer OR the altimeter.)	-varies-	infinite		c		2	feature
45	DISP MODE	<i>weather display when off</i>	Controls what weather functions the radio displays, if any, when the radio is shut OFF. It can display the temp when off, it uses a little bit of battery. If the barometer is installed, it can display that or altitude too.	none	none, tmp, bar, alt, tmp+bar, tmp+alt, all				7	display
btn	+ 0 (WX)	<i>weather channels</i>	Switch to Weather Channel Mode.	off					2	feature
btn	+ 1 (FRQ)	<i>DISP one large line</i>	Switch to the display mode with one line of large digits, frequency only						7	display
btn	+ 2 (TAG)	<i>DISP frq & name</i>	Switch to display mode of two lines with two lines, frequency and tag (name). (I keep the radio in this display mode most of the time.)						7	display
btn	+ 3 (VLT)	<i>DISP frq & batt voltage</i>	Switch to display mode of two lines with frequency and current battery voltage. If it gets down to 7.3, you need to recharge.						7	display
btn	+ 4 (DSP)	<i>DISP 2 freq.</i>	Switch to display mode of two lines with main and sub frequencies. Useful in VFO, necessary in dual watch!						7	display

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance button (wish) set up bank	type of command
btn	+ 5 (ICO)	<i>DISP one line w/ ico</i>	Switch to the display mode with one line of small digits, the frequency and the goofy Yaseu icons.					7 display
btn	+ 6 (ONT)	<i>DISP frq & usage timer</i>	Switch to display mode of two lines the frequency and the current usage timer. Displays Transmit and Receive time. Very useful!					7 display
btn	+ 7 (TMP)	<i>DISP two lines: frq & temp</i>	Switch to display mode of two lines the frequency and the current temperature.	off				7 display
btn	+ 8 (BRO)	<i>DISP frq & barometer</i>	Switch to display mode of two lines the frequency and the current barometric pressure, if you have the barometer unit installed.					7 display
btn	+ 9 (ALT)	<i>DISP frq & altimeter</i>	Switch to display mode of two lines the frequency and the current altitude, if you have the barometer unit installed.					7 display
btn	+ MR	<i>scan up memories</i>	This key, if started with a memory on the screen, will scan through all of your memories (except those marked to skip). touch MR to stop.					
btn	+ VFO	<i>scan up VFO by freq step</i>	This key pattern, if started in VFO mode, will scan through every single frequency starting with the one on the display. touch VFO to stop.					
btn	+BAND	<i>range finder</i>	Two people with identical radios can use this to tell when they are in range of each other. Not very useful. This is very frequently turned on by accident. To exit hold BAND again.	off				2 feature
btn	+F-6	<i>reset usage timer</i>	with usage timer on the screen (+6) this key stroke will reset the timer to zero. The timer does NOT reset automatically when you recharge!					2 feature
btn	+F-BAND	<i>priority memory</i>	There are several functions (notably Dual Watch) which default to a PRIORITY memory channel. To change this, hold F , until you get the W at the lower left and then touch BAND . You can only have one PRIORITY channel at a time.	<i>saved with each memory</i>				3 memory
btn	+F-BAND	<i>priority channel</i>	Set memory channel as The Priority channel.					3 memory
btn	+F-MR	<i>erase a memory channel</i>	Erase a memory channel. This does NOT actually erase a memory, but hides it. There is no way i know to actually erase a memory other than writing over it. (To unhide a memory, use the same key combination, and dial to the hidden memory (no asterisk)					3 memory
btn	+FW-FW	<i>save a memory channel</i>	(for Full procedure see How To Save A Memory page)					3 memory
btn	+L	<i>lamp on until press</i>	Turn the backlight on to stay on until you touch L again regardless of what SET#25 says.					
btn	+TX/LO	<i>lockout keyboard</i>	Lock Keypad &/or Dial &/or Push to Talk (setting is SET #7) to prevent accidentally changing settings. Same key combination to unlock.	off				1 control
btn	F- +VFO (DW)	<i>dual watch</i>	Monitor two frequencies in the two VFOs. To exit touch VFO . Very useful.	off				2 feature

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance button (wish)	set up bank	type of command
btn	F- 3 (DT)	<i>DTMF memories</i>	This turns on the DTMF shortcuts. You can tell when it is on because there is a very tiny telephone icon at the lower right of the LCD screen. When this is on, you can send any of the 9 memories simply by holding PTT , touching the digit you choose (say, 4) and releasing PTT . It is very important to turn this off when you are done (i wish it were automatic) (F-3 again.)	off					2 feature
btn	F- 4 (MG)	<i>enter grouped mem banks</i>	Switch to Memory Group Mode.	off					2 feature
btn	F/W+moni	<i>reverse repeater freqs</i>	Swap the input and output frequencies of a repeater set up. This is very dangerous!						
btn	F/W+PTT	<i>high power transmit</i>	Transmit at high power regardless of TX/PO setting.						
btn	F-MR SKP SC	<i>skip</i>	Set memory channel to skip during scans.						3 memory
btn	F-SKIP/PRIO	<i>mem skip or main</i>	You can append one of two icons to a memory using this key combination. The first that appears is a triangle, that indicates that this memory channel will be SKIPPED in any scan. Very useful for broadcast stations. The second time you press the keys a musical note will appear. That means it is a MAIN memory. If you start a scan on one of the MAIN memories, it will only scan MAIN memories... kind of like a miniature 7th Memory Group.	<i>saved with each memory</i>					3 memory
btn	F-VFO (DW)	<i>priority watch</i>	Monitor two frequencies, the one you are looking at (VFO or mem) and your Priority Channel (indicated by a P next to the memory number). To exit touch VFO .	off					2 feature
btn	HM/RV	<i>Home</i>	Switch to HOME mode and jump to the home memory of the band which contains the currently active frequency.						
btn	MON/T-CAL	<i>Moni</i>	Open up the Squelch entirely, to hear a weak signal or check volume levels.						
btn	TX PWR LV	<i>TX power level</i>	Change the transmission level, High (no icon), Low L, Med Low L) and Med High L)). You should keep it as low as works for you at all times.	<i>saved with each memory</i>					3 memory
dial	VOLUME	<i>volume level</i>	Changes the volume of the speaker, or earphone.	8 -varies-					1 control
kypd	146.580	<i>frequency</i>	Enter any frequency when you are in VFO (or MT) mode.	<i>saved with each memory</i>					3 memory
wish	CLEAR	<i>true memory channel erase</i>	I wish there were a true memory erase function, because if you've used a memory once, and then 'erased' it (hide it +F-MR) and you go to save another channel, that memory is flagged as IN USE (no asterisk)						3 memory

SET#	SET NAME	brief	description	currently saved	all possible settings	shortcut button	importance button (wish)	set up bank	type of command
<i>wish</i>	DISPLAY	<i>display mode</i>	I wish this were in a dial through set up, but it is now a series of keypad shortcuts which is annoying because you can only choose one at a time.	1 w/name				1	control
<i>wish</i>	EMERGENCY	<i>disable/enable EMG button</i>	I wish there were a way to disable this annoying thing!					2	feature
<i>wish</i>	ENTER	<i>Enter & Clear keys</i>	I wish there were an enter/clear key, other than PTT, which always makes me nervous.						
<i>wish</i>	KNOB	<i>reverse knob direction</i>	I wish there were a control set up feature which					6	customize
<i>wish</i>	NAME	<i>DISP one line: name only</i>	I wish there were a display function that showed ONLY the 'tag' or text label and no frequency or anything else.					7	display
<i>wish</i>	SQL SAV	<i>squelch level</i>	I wish the squelch level were saved with each memory channel.	<i>saved with each memory</i>				3	memory
<i>wish</i>	TX MODE	<i>transmit mode</i>	I wish there were a transmit mode set up that allowed you to manually set transmit to FM, AM, WFM, USB, LSB and most importantly to disable transmit for a memory channel.	<i>saved with each memory</i>				3	memory

How to save a Memory Channel on the Yaseu VX5r

Method 1 (using shortcuts)

Step 1	browse memories to decide which to use	touch MR turn dial	to enter memory mode to browse	
Step 2	Switch to VFO mode	touch VFO	to enter VFO mode	
Step 3	Enter a frequency	keypad	to enter frequency	It will be accepted once there are 3 digits right of decimal you may have to fill in with zeros) 146.580
Step 4	Confirm that the offset is correct	look for + or - icon at bottom of screen		It will almost always be correct.
Step 4.5 (or manually change the offset)		F-6 (RP) turn dial touch 6	shortcut to Setup #07 RPT SHFT to change offset shortcut to return to VFO mode	.RPT
Step 5	turn on the tone	F-1 (TN) turn dial touch 1	shortcut to Setup #29 SOL TYPE to change Squelch Type shortcut to return to VFO mode	STONE
Step 6	set the tone code	F-2 (CD) turn dial touch 2	shortcut to Setup #30 TONE SET to change code shortcut to return to VFO mode	It will not work if tone is not turned on! It will automatically go to DCS if you set that up in step 5! 67.3
Step 7	set the label	F-BAND turn dial BAND turn dial BAND BAND FW HM/RV TXPO MR touch PTT	to enter set up to 03 NAME SET to enter change setup mode to find character to enter character & move to next will insert previous character will jump forward through character sets will jump backwards through character sets delete all chars to the right of the cursor to save label, exit setup and return to VFO mode	where you can enter the label KE7BFO
Step 8	Save the memory Channel	hold FW turn dial touch FW	you have only 5 seconds to touch the dial to memory number chosen in step 1	(asterisk indicates a never yet used memory)
to escape	at any point	touch PTT	exits set up and clears everything	in case you get stuck....

Method 2 (in SET mode)

Step 1	Browse Memories to decide which to use	touch MR turn dial	to enter memory mode to browse
Step 2	Switch to VFO mode	touch VFO	to enter VFO mode
Step 3	Enter a frequency	touch keypad	to enter frequency It will be accepted once there are 3 digits right of decimal.
Step 4	Enter SET mode	F- BAND turn dial	to 07 RPT SHFT
Step 5	Set the Offset	touch BAND turn dial touch BAND	to change setting to show desired setting to save setting
Step 6	Set the Tone Squelch	turn dial touch BAND turn dial touch BAND	to 29 SOL TYPE to change setting to show desired setting to save setting
Step 7	Set the Offset	turn dial touch BAND turn dial touch BAND	to 030 TONE SET (or 31 DCS SET) to change setting to show desired setting to save setting
Step 8	Set the Tone Squelch	turn dial touch BAND turn dial touch BAND touch FW	to 03 NAME SET to change setting to find first character to enter character & move to next with dial helpful shortcut to copy previous character
Step 9	Exit SET mode	touch PTT	to save label, exit setup and return to VFO
Step 10	Save the memory Channel	hold FW turn dial touch FW	you have only 5 seconds to touch the dial to memory number chosen in step 1 (asterisk == never used memory)
to escape	at any point	touch PTT	exits set up and clears everything

While in Home Channel mode turning the dial will copy the Home channel data to the last VFO used and change to that VFO.

VFO leave WX mode, leave MG mode, MR mode, scan... a good key to try to leave a mode
PTT usually works as a clear key
+AR exit auto range finder mode
+ HM turns on stupid emergency thing
BAND usually saves setups
can save to all special memories (home vfo) with fw-hm fw-vfo

use the keypad lock

voltage

usage time counter

re-set usage time counter

save a memory into VFO

power levels aligned: *are 5, 2.5, 1, 0.3 --- make 5, 2, 0.5, 0

z dual watch (prio mem): -in 2nd mem or vfo- F/W+vfo

no dual receiver - no crossband

z setting home memory: -in mem-, HOLD f/w, hm

short cut setup save & exit: -matching shortcut-

alignment mode enter: band+tx/po+0+pwrup

dual watch (va & vb): F/W+1/frq, F/W+vfo

1000 kHz step: F/W+dial

reverse repeater freqs: F/W+moni

high power transmit: F/W+ptt

update current memory chan: HOLD f/w, 0

EVE needs radio ID ... RX wouldn't work!

lamp on until press: HOLD L

mem only mode toggle: mr+pwrn

tone search: set#29=TONE SQL or DCS, F/W+2/cd, vfo

play cw call sign: set#33, band, f/w

(must have no signal on frequency or it will go to MT)

hi power 5

L) 0.3

L)) 1

L))) 2.5

weight 255g

Memory Dump KC7I EU 8/14/2004

MEM	Frequency	Tag	repeater shift	Shift	TS/DCS	Tone	DCS	Mode	TX Pwr	Scn Md	Step	Masked	Location	comment
1	146.580	simplex	SIMP		OFF	100	23 NFM	MAX	Off		5 KHz	FALSE		<i>my standard simplex</i>
2	146.440	simplex3	SIMP		OFF	100	23 NFM	MAX	Off		5 KHz	FALSE		<i>my backup simplex</i>
3	146.400	simplex2	SIMP		OFF	100	23 NFM	MAX	Off		5 KHz	FALSE		
4	146.520	simplexN	SIMP		OFF	100	23 NFM	MAX	Off		5 KHz	FALSE		<i>National Simplex</i>
5	446.000	simplexN	SIMP		OFF	100	23 NFM	MAX	Off		5 KHz	FALSE		<i>National Simplex</i>
6	146.900	W7SRZ	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE	Beacon Hill	<i>my favorite repeater</i>
7	444.525	fire rep	RPT+	5.000	TONE	103.5	23 NFM	MAX	Off		12.5 KHz	FALSE	Tiger Mountain	<i>Joe Basta</i>
8	146.920	WB7BYpil	RPT-	0.600	TONE	123	23 NFM	MAX	Off		5 KHz	FALSE	Mt Pilchuck	<i>Jay Morrison</i>
9	145.330	K7NWS	RPT-	0.600	TONE	179.9	23 NFM	MAX	Off		5 KHz	FALSE	Tiger Mountain	<i>Boeing Ham Club</i>
10	146.960	N7GAD	RPT-	0.600	TONE	173.8	23 NFM	MAX	Off		5 KHz	FALSE		<i>RACES (emergency)</i>
11	145.110	KC7SAR	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		
12	145.250	snoqpass	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		
13	145.310	KC7FA	RPT-	0.600	TONE	179.9	23 NFM	MAX	Off		5 KHz	FALSE		
14	146.820	K7LED	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		
15	444.825	W7SRZ 4	RPT+	5.000	TONE	103.5	23 NFM	MAX	Off		25 KHz	FALSE	Finn Hill Kirkland	
16	443.550	W7SRZ 4b	RPT+	5.000	OFF	100	23 NFM	MAX	Off		12.5 KHz	FALSE	Finn Hill Kirkland	
17	147.200	K7PP c	RPT+	0.600	TONE	123	23 NFM	MAX	Off		5 KHz	FALSE	Gold Mtn Bremerton	
18	147.200	K7PP n	RPT+	0.600	TONE	107.2	23 NFM	MAX	Skip		5 KHz	FALSE	Bellingham	
19	443.400	K7PP 4	RPT+	5.000	OFF	100	23 NFM	MAX	Off		12.5 KHz	FALSE	Bremerton	
20	147.280	W7AK tac	RPT+	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE	Tacoma	
21	145.150	KC7CHV o	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE	Olympia	
22	145.110	N7HDH nb	RPT-	0.400	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE	Neah Bay	
23	145.190	KG7HQ sw	RPT-	0.600	TONE	127.3	23 NFM	MAX	Off		5 KHz	FALSE	Sedro Wooley	
24	146.740	mt con	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE	Mt Constitution	
25	145.150	K7RBT px	RPT-	0.600	TONE	114.8	23 NFM	MAX	Off		5 KHz	FALSE	Portland	
26	147.040	K7RPT px	RPT+	0.600	OFF	100	23 NFM	MAX	Off		10 KHz	FALSE	Portland	
27	442.225	K7RPT px	RPT+	5.000	OFF	100	23 NFM	MAX	Off		25 KHz	FALSE	Portland	
28	145.210		RPT-	0.600	TONE	141.3	712 NFM	MAX	Off		5 KHz	FALSE		
29	146.230		RPT+	0.600	TONE	127.3	712 NFM	MAX	Off		5 KHz	FALSE		
30	145.450		RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		
31	146.760		RPT-	0.600	TONE	179.9	712 NFM	MAX	Off		5 KHz	FALSE		
32	146.880		RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		
33	441.325		RPT+	5.000	OFF	114.8	23 NFM	MAX	Off		12.5 KHz	FALSE		
34	442.900		RPT+	5.000	OFF	100	23 NFM	MAX	Off		12.5 KHz	FALSE		
35	446.175		RPT-	5.000	OFF	100	23 NFM	L2	Off		12.5 KHz	FALSE		
36	224.780	Bob2 at1	RPT-	1.600	TONE	103.5	23 NFM	MAX	Off		10.0 KHz	FALSE		
37												TRUE		
38	445.875		SIMP		TSQL	82.5	23 NFM	L3	Off		12.5 KHz	FALSE		
39												TRUE		
40	147.560	TI simp	SIMP		OFF	103.5	23 NFM	L3	Off		5 KHz	FALSE		<i>Tri-Island simplex</i>
41	445.925	TI simp	SIMP		OFF	103.5	23 NFM	MAX	Off		12.5 KHz	FALSE		
42	146.920	TI r sa	RPT-	0.600	OFF	100	23 NFM	MAX	Off		5 KHz	FALSE	Mt Pilchuck	<i>Jay Morrison Tri-Island repeater</i>
43	444.050	TI r	RPT+	5.000	OFF	100	23 NFM	L2	Off		12.5 KHz	FALSE		<i>Tri-Island repeater</i>
44	145.250	TI r su	RPT-	0.600	TONE	127.3	23 NFM	MAX	Off		5 KHz	FALSE	Mt Constitution?	<i>Tri-Island repeater Sunday</i>
45	445.875	TI xb	SIMP		TSQL	82.5	23 NFM	L2	Off		12.5 KHz	FALSE		<i>Tri-Island crossband</i>
46	146.820	SM LWB r	RPT-	0.600	TONE	103.5	23 NFM	MAX	Off		5 KHz	FALSE		<i>Marathon Lake Washington Blvd repeater</i>
47	441.475	SM LWB r	RPT+	5.000	TONE	103.5	23 NFM	L2	Off		12.5 KHz	FALSE		<i>Marathon Seattle Center repeater</i>
48	445.200	SM xb	SIMP		OFF	103.5	23 NFM	L2	Off		12.5 KHz	FALSE		<i>Marathon crossband</i>
49	144.330	Undrwood	SIMP		OFF	67	23 NFM	MAX	Off		5 KHz	FALSE		<i>Underwood simplex</i>
50	151.625	H4 dcs	SIMP		DCS	100	271 NFM	L3	Off		5 KHz	FALSE		<i>Dave Shaw/Northwest Classics owned freq</i>

MEM	Frequency	Tag	repeater shift	Shift	TS/DCS	Tone	DCS	Mode	TX Pwr	Scn Md	Step	Masked	Location	comment
51	151.625	H4 open	SIMP		OFF	123	732	NFM L3		Off	5 KHz	FALSE		Dave Shaw/Northwest Classics owned freq
52	151.625	H4 e-d	SIMP		TSQL	123	23	NFM L3		Off	5 KHz	FALSE		Dave Shaw/Northwest Classics owned freq
53	151.625	H4 123	SIMP		TONE	123	732	NFM L3		Off	5 KHz	FALSE		Dave Shaw/Northwest Classics owned freq
54	461.137	PSC	SIMP		OFF	100	23	NFM L1		Off	12.5 KHz	FALSE		PSC walkie talkies
55	461.337	PSC	SIMP		OFF	100	23	NFM L1		Off	12.5 KHz	FALSE		PSC walkie talkies
56	466.137	PSC	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		PSC walkie talkies
57	154.600	SeaCntr	SIMP		OFF	100	23	NFM L1		Off	12.5 KHz	FALSE		Seattle Center Security
58												TRUE		
59												TRUE		
60	155.220	HEAR	SIMP		OFF	67	23	NFM L1		Off	5 KHz	FALSE		Ambulance
61	851.1875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
62	851.4125	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
63	851.9375	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
64	851.9875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
65	852.1625	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
66	852.6875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
67	852.9125	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
68	853.4375	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
69	854.1875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
70	854.3625	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
71	866.2875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
72	866.3125	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
73	866.3375	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
74	866.4375	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
75	866.6875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
76	866.7125	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
77	866.7375	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
78	866.8875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
79	867.2875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
80	867.7625	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
81	867.7875	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
82	868.1750	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
83	868.4750	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
84	868.6750	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
85	868.8750	SeaTk CT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE	Columbia Tower	Seattle Police & Fire
86	853.6125	SeaTk MT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		Seattle Police & Fire
87	854.0750	SeaTk MT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		Seattle Police & Fire
88	868.2250	SeaTk MT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		Seattle Police & Fire
89	852.8625	SeaTk MT	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		Seattle Police & Fire
90												TRUE		
91												TRUE		
92												TRUE		
93	450.412	KOMO chp	SIMP		OFF	67	23	NFM L1		Off	12.5 KHz	FALSE		TV News helicopter
94	161.640	KIRO chp	SIMP		OFF	67	23	NFM L1		Off	5 KHz	FALSE		TV News helicopter
95												TRUE		
96												TRUE		
97												TRUE		
98												TRUE		
99												TRUE		
100												TRUE		
101	462.562	FRS 1	SIMP		OFF	100	23	NFM L2		Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
102	462.587	FRS 2	SIMP		OFF	100	23	NFM L2		Skip	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
103	462.612	FRS 3	SIMP		OFF	100	23	NFM L2		Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)

MEM	Frequency	Tag	repeater shift	Shift	TS/DCS	Tone	DCS	Mode	TX Pwr	Scn Md	Step	Masked	Location	comment
104	462.637	FRS 4	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
105	462.662	FRS 5	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
106	462.687	FRS 6	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
107	462.712	FRS 7	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
108	467.562	FRS 8	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
109	467.587	FRS 9	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
110	467.612	FRS 10	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
111	467.637	FRS 11	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
112	467.662	FRS 12	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
113	467.687	FRS 13	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
114	467.712	FRS 14	SIMP		OFF	100	23 NFM L2	L2	Off	Off	12.5 KHz	FALSE		Family Radio Service (Walkie Talkies)
115												TRUE		
116												TRUE		
117												TRUE		
118												TRUE		
119												TRUE		
120	121.500	air emg	SIMP		OFF	67	23 AM L1	L1	Off	Off	5 KHz	FALSE		aviation
121	122.800	Unicom2	SIMP		OFF	67	23 AM L1	L1	Off	Off	5 KHz	FALSE		aviation private general communaicon
122	122.900	Lake Un	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		Lake Union talk in
123	120.600	BngFld N	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		Boeing Field north approach
124	118.300	BngFld s	SIMP		OFF	67	23 AM L1	L1	Off	Off	5 KHz	FALSE		Boeing Field south approach
125	123.900	STc nrth	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		SeaTac north approach
126	119.500	STc twr	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		SeaTac tower
127	126.600	SEA cntl	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		Seattle Central Control
128	123.000	?	SIMP		OFF	100	23 AM L1	L1	Off	Off	25 KHz	FALSE		
129												TRUE		
130	161.245	RR BN ev	SIMP		OFF	100	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
131	161.095	RR mi se	SIMP		OFF	100	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
132	159.640	RR x	SIMP		OFF	100	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
133	161.160	RR x	SIMP		OFF	103.5	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
134	161.285	RR x	SIMP		OFF	100	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
135	161.100	RR x	SIMP		OFF	103.5	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
136	161.165	RR x	SIMP		OFF	103.5	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Railroad
137	151.025	WSF ht	SIMP		OFF	123	732 NFM L1	L1	Off	Off	5 KHz	FALSE		Washington State Ferries handhelds
138	151.040	WSF ht	SIMP		OFF	123	732 NFM L1	L1	Off	Off	5 KHz	FALSE		Washington State Ferries handhelds
139	156.060	WSF ht	SIMP		OFF	123	732 NFM L1	L1	Off	Off	5 KHz	FALSE		Washington State Ferries handhelds
140	156.150	m03 CG	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		Marine - Coast Guard
141	156.250	m05 tSJ	SIMP		OFF	173.8	23 NFM MAX	MAX	Off	Off	5 KHz	FALSE		Marine - traffic control San Juans
142	156.300	m06 sfty	SIMP		OFF	67	23 NFM MAX	MAX	Off	Off	5 KHz	FALSE		Marine - safety
143	156.600	m12 port	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		
144	156.650	m13 lks	SIMP		OFF	67	23 NFM MAX	MAX	Off	Off	5 KHz	FALSE		Marine - locks
145	156.700	m14 tPS	SIMP		OFF	173.8	23 NFM MAX	MAX	Off	Off	5 KHz	FALSE		Marine - traffic control Puget Sound
146	156.750	m15 env	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		
147	156.800	m16 call	SIMP		OFF	67	23 NFM MAX	MAX	Off	Off	5 KHz	FALSE		Marine - call
148												TRUE		
149												TRUE		
150	452.650	kcmt ch1	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
151	452.725	kcmt ch2	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
152	453.375	kcmt ch3	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
153	452.275	kcmt ch4	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
154	452.375	kcmt ch5	SIMP		OFF	67	23 NFM L1	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
155	452.800	kcmt ch6	SIMP		OFF	100	23 NFM L1	L1	Skip	Off	12.5 KHz	FALSE		King County Metro (buses)
156	453.525	kcmt ch7	SIMP		OFF	67	23 NFM L1	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)

MEM	Frequency	Tag	repeater shift	Shift	TS/DCS	Tone	DCS	Mode	TX Pwr	Scn Md	Step	Masked	Location	comment
157	452.350	kcmt ch8	SIMP		OFF	67	23 NFM	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
158	453.825	kcmt cb	SIMP		OFF	100	23 NFM	L1	Off	Off	5 KHz	FALSE		King County Metro (buses)
159	451.970	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
160	452.770	kcmt ?	SIMP		OFF	67	23 NFM	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
161	454.575	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
162	462.5625	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	12.5 KHz	FALSE		King County Metro (buses)
163	464.575	kcmt ?	SIMP		OFF	67	23 NFM	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
164	467.6875	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	12.5 KHz	FALSE		King County Metro (buses)
165	467.7125	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	12.5 KHz	FALSE		King County Metro (buses)
166	469.575	kcmt ?	SIMP		OFF	100	23 NFM	L1	Skip	Off	5 KHz	FALSE		King County Metro (buses)
167	450.6875	Mtro TC	SIMP		OFF	67	23 NFM	L1	Off	Off	12.5 KHz	FALSE		King County Metro (buses)
168												TRUE		
169												TRUE		
170	150.775	mtn resc	SIMP		OFF	100	23 NFM	MAX	Off	Off	5 KHz	FALSE		Mountain Rescue
171	150.540	mtn resc	SIMP		OFF	103.5	23 NFM	MAX	Off	Off	5 KHz	FALSE		Mountain Rescue
172	162.195	ON frst	SIMP		OFF	179.9	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Forest rangers
173	164.825	ON frst	SIMP		OFF	103.5	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Forest rangers
174	164.965	ON frst	SIMP		OFF	103.5	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Forest rangers
175	164.125	ON park	SIMP		OFF	103.5	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Park rangers
176	166.525	ON park	SIMP		OFF	103.5	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Park rangers
177	164.800	ON park	SIMP		OFF	103.5	23 NFM	L1	Off	Off	5 KHz	FALSE		Olympic National Park rangers
178												TRUE		
179												TRUE		
180	94.900	KUOW	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast
181	88.500	KPLU	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Tacoma	broadcast
182	89.900	KGRG	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Auburn	broadcast
183	90.700	KSER	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Everett	broadcast
184	90.300	KEXP	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast
185	91.300	KBCS	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Bellevue	broadcast
186	95.700	KJR	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast
187	99.900	KISW	SIMP		OFF	100	23 WFM	L1	Skip	Off	5 KHz	FALSE	Seattle	broadcast
188	102.500	KZOK	SIMP		OFF	67	23 WFM	L1	Skip	Off	5 KHz	FALSE	Seattle	broadcast
189	107.700	KNDD	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast
190	71.800	KOMO 4	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
191	81.800	KING 5	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
192	179.800	KIRO 7	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
193	191.800	KCTS 9	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
194	203.800	KSTW 11	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
195	215.800	KCPQ 13	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
196	487.800	KONG 16	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
197	511.800	KTVW 20	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
198	523.800	KTWB 22	SIMP		OFF	100	23 WFM	L1	Skip	Off	100 KHz	FALSE	Seattle	broadcast TV audio
199												TRUE		
200	0.710	KIRO	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
201	0.950	KJR	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
202	1.000	KOMO	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
203	1.150	KKNW	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
204	1.380	KRKO	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
205	100.700	KQBZ	SIMP		OFF	100	23 WFM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
206	0.880	KIXI	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
207	1.090	KYCW	SIMP		OFF	100	23 AM	L1	Skip	Off	10 KHz	FALSE	Seattle	broadcast
208	5.000	time sig	SIMP		OFF	100	23 AM	MAX	Off	Off	5 KHz	FALSE	Colorado	shortwave US Navy time signal
209	10.000	time sig	SIMP		OFF	100	23 AM	MAX	Off	Off	5 KHz	FALSE	Colorado	shortwave broadcast time signal

MEM	Frequency	Tag	repeater shift	Shift	TS/DCS	Tone	DCS	Mode	TX Pwr	Scn Md	Step	Masked	Location	comment
210	9.700	Germany	SIMP		OFF	100	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
211	9.755	Canada	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
212	9.410	London	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
213	11.995	France	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
214	9.560	China	SIMP		OFF	100	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
215	11.850	Japan	SIMP		OFF	100	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
216	15.595	Russia	SIMP		OFF	100	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
217	7.130	Serbia	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		shortwave news broadcasts
218												TRUE		
219												TRUE		
220	4.625	spy num	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		spooky!!!
L1	156.000	Marine	SIMP		OFF	67	23 NFM	MAX	Off	Off	5 KHz	FALSE		scan limits- Marine band
U1	158.000	-----	SIMP		OFF	173.8	23 NFM	MAX	Off	Off	5 KHz	FALSE		scan limits- Marine band
L2	159.640	Railroad	SIMP		OFF	100	23 NFM	MAX	Off	Off	5 KHz	FALSE		scan limits- Railroad band
U2	161.640	-----	SIMP		OFF	100	23 NFM	MAX	Off	Off	5 KHz	FALSE		scan limits- Railroad band
L3	450.100	Buses	SIMP		OFF	100	23 NFM	L1	Off	Off	5 KHz	FALSE		scan limits- Metro Busses
U3	469.9875	-----	SIMP		OFF	103.5	23 NFM	MAX	Off	Off	12.5 KHz	FALSE		scan limits- Metro Busses
L4	5.005	shrtwave	SIMP		OFF	173.8	23 AM	MAX	Off	Off	5 KHz	FALSE		scan limits- shortwave broadcast
U4	15.995	-----	SIMP		OFF	100	23 AM	MAX	Off	Off	5 KHz	FALSE		scan limits- shortwave broadcast
L5	145.005	HAM vhf	SIMP		OFF	67	23 NFM	L1	Off	Off	5 KHz	FALSE		scan limits- HAM 2m
U5	147.995	-----	SIMP		OFF	67	23 NFM	L1	Off	Off	5 KHz	FALSE		scan limits- HAM 2m
L6	851.1875	Police	SIMP		OFF	67	23 NFM	L1	Off	Off	25 KHz	FALSE		scan limits- Seattle Police
U6	868.900	-----	SIMP		OFF	67	23 NFM	L1	Off	Off	25 KHz	FALSE		scan limits- Seattle Police
L7	48.760	crdls ph	SIMP		OFF	67	23 NFM	L1	Off	Off	20 KHz	FALSE		scan limits- cordless phones
U7	49.970	-----	SIMP		OFF	67	23 NFM	L1	Off	Off	20 KHz	FALSE		scan limits- cordless phones
L8												TRUE		
U8												TRUE		
L9	117.985	aviation	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		scan limits- aviation
U9	139.000	aviation	SIMP		OFF	67	23 AM	L1	Off	Off	5 KHz	FALSE		scan limits- aviation
L10												TRUE		
U10												TRUE		