

## IC-7700 Memory R/W CI-V Command Structure - KI4KQ

This document assumes you understand basic Icom CI-V Command Formats.

### Read Memory Channel Contents:

Command Bytes:

[FE] [FE] [74] [E0] [1A] [00] [bn] [XX] [FD]

Where:

[bn] is Bank Number: [00] for Memory Channels 01-99  
[01] for Scan Band Edge

[XX] is the Channel Number (01 - 99) in BCD  
i.e. [26] = Channel 26 (the byte would be Hex 26)

Note: There are No Banks on the 7700.

### Returned Memory Channel Contents from Read Command:

Returned Bytes:

[FE] [FE] [E0] [74] [1A] [00] [bn] [XX] [SP]  
[fr1] [fr2] [fr3] [fr4] [fr5] [mr] [ftr] [tn]  
[tt1] [tt2] [tt3] [rt1] [rt2] [rt3]  
[ft1] [tr2] [ft3] [ft4] [ft5] [mt] [ftr] [tn2]  
[tt1] [tt2] [tt3] [rt1] [rt2] [rt3]  
[c1] [c2] [c3] [c4] [c5] [c6] [c7] [c8] [c9] [c10] [FD]

Where:

[XX] is the Channel Number (01 - 99) in BCD  
i.e. [26] = Channel 26 (the byte would be Hex 26)

[SP] is Split Condition, [00] is No Split, [10] is Split On

[fr1] ... [fr5] is Receive Frequency in Standard Icom CI-V format  
i.e. 12.345678 Mhz = [78] [56] [34] [12] [00]

[mr] is Receive Frequency Mode (Normal Icom)

[ftr] is Selected Filter, 01, 02, or 03

[tn] is Tone Flag: 00 = None, 01 = Xmit Tone On, 02 = Rcv Tone On

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[tt1] ... [tt3] is the Transmit Tone Frequency - BCD format  
 There Must Be a Valid Frequency Specified, whether on or off.  
 i.e. 103.5 = [00] [10] [35]

### • Available tone frequencies (unit: Hz)

67.0	85.4	107.2	136.5	165.5	186.2	210.7	254.1
69.3	88.5	110.9	141.3	167.9	189.9	218.1	
71.9	91.5	114.8	146.2	171.3	192.8	225.7	
74.4	94.8	118.8	151.4	173.8	196.6	229.1	
77.0	97.4	123.0	156.7	177.3	199.5	233.6	
79.7	100.0	127.3	159.8	179.9	203.5	241.8	
82.5	103.5	131.8	162.2	183.5	206.5	250.3	

[rt1] ... [rt3] is the Receive Tone Frequency - BCD format  
 There Must Be a Valid Frequency Specified, whether on or off.  
 The format is the same as Transmit Tone above.

\*\* The next 14 bytes are for the transmit frequency. If this is not a 'Split' Memory Channel, the previous 14 bytes need replicated here. Otherwise:

[ft1] ... [ft5] is Transmit Frequency (if Split) in Standard Icom CI-V format  
 i.e. 12.345678 Mhz = [78] [56] [34] [12] [00]

[mr] is Transmit Frequency Mode (if Split) (Normal Icom)

[ftr] is Selected Filter, 01, 02, or 03 (Always same as 1st Frequency)

[tn] is Tone Flag: 00 = None, 01 = Xmit Tone On, 02 = Rcv Tone On

[tt1] ... [tt3] is the Transmit Tone Frequency - (If Split)  
 Always the Same as 1st Frequency entry above

[rt1] ... [rt3] is the Receive Tone Frequency  
 Always the Same as 1st Frequency entry above

[c1] ... [c10] is Memory Name Text. Space fill (ASCII Space = Hex 20) to make exactly ten characters. See 7700 Manual for allowable characters.

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### Write Memory Channel Command:

Sent Bytes:

[FE] [FE] [74] [E0] [1A] [00] [bn] [XX] [SP]  
[fr1] [fr2] [fr3] [fr4] [fr5] [mr] [ftr] [tn]  
[tt1] [tt2] [tt3] [rt1] [rt2] [rt3]  
[ft1] [tr2] [ft3] [ft4] [ft5] [mt] [ftr] [tn2]  
[tt1] [tt2] [tt3] [rt1] [rt2] [rt3]  
[c1] [c2] [c3] [c4] [c5] [c6] [c7] [c8] [c9] [c10] [FD]

Where:

[bn] is Bank Number: [00] for Memory Channels 01-99  
[01] for Scan Band Edge

All rest as Read Above.

Returns the usual IC-V response of OK or NG.

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