# OMNI VI, Model 563 Manual Addendum

Release Date: February 27, 1996 Revision 2.21 and 2.21-150

The new features described below may be added to your OMNI-VI by replacing the socketed IC labeled "Logic" currently in your rig. The logic board is located on the top right side after removing the top cover.

IMPORTANT – Once you have physically replaced the IC, we strongly recommend you perform a MASTER reset of the microprocessor the first time you power up the rig. See page 2-3 of your manual for instructions.

1) A second and faster method is available to "clear and return to zero" the RIT value. Simply hit the "CLEAR" button any time RIT or XIT is active. The previous method of "touch and hold" the RIT button still works for those who prefer it.

2) The separate tuning knob for RIT/XIT previously tuned at a fixed rate. Another item is added to the User Options Menu allowing you to select one of six different tuning rates. The fastest rate remains equivalent to your previous software and any of 5 slower rates may be selected. This becomes the last menu item and is labeled "rSPd".

NOTE: A number of contesters requested the ability to tune the RIT/XIT knob and "clear" its value even while in TX mode. All OMNI-VIs do this in SSB and FSK mode. Unfortunately, it is not practical in CW mode due to microprocessor and software constraints.

3) The Main Tuning knob "LOCK" function previously locked both A and B VFO. This is changed to "Lock" only the selected VFO leaving the other still available for tuning.

4) Commands have been expanded in the PC interface to allow software packages to request the status of selected filter bandwidth and to change it remotely from the PC. The command changes are as follows:

Section 5.5 Data Formats

Command 04h, Query Transceiver Mode, has been changed to include filter information. Likewise, with Matrix Mode (Cde) turned on, the Omni VI will now report filter changes. As before, changing mode (USB, CW, etc.) on the transceiver will send mode information, but the "DATA" section in the message now contains two bytes instead of one.

The old format of the response to "Query Mode" was:

FEh FEh RA SA DATA FDh

Where DATA was a single mode byte, the DATA is now two bytes: a single mode byte followed by a single filter selection byte encoded as follows:

| | |
|---|---|
| 2.4 | 02h |
| 1.8 | 03h |
| .5 | 04h |
| .25 | 05h |

The "NAR" button is not encoded as it is not a separate filter width.

For example, a query response may look like:

FE FE E0 04 03 04 FD
For CW, .5 KHz.

The 06h "Set Transceiver Mode" command is encoded the same way, and the transceiver will respond to both the old mode-only command as well as the new mode-and-filter command formats.

In addition, band changes, vfo changes, memory recall and certain clear functions now include automatic transmission of mode and filter data when Cde is on.

In command 17h, "Return Transceiver Status", bit 7 has been implemented to indicate whether "Matrix Mode" (Cde) is on or off.
1=on, 0=off.

"FSK" mode has been usable all along, but the manual did not mention the "FSK" mode number, which is 04.

A few serious CW users who simultaneously use computer logging have noticed an occasional problem. Program changes have been made to improve this condition. These changes should not hamper operation of existing logging/control programs. One difference should be noted: The response time of the serial port is dependent on keying activity and high speed keying may delay serial port transmission to the degree that logging/control programs may need additional "wait" time looking for data response from the transceiver.