

# Service Menu Items Yaesu VX7R

To enter the service menu, first place the unit into VFO mode, assuring that band center frequencies have been entered: 52 mhz, 146 mhz, 223 mhz, 446 mhz. Power down the radio. With the radio off, press down the “0” key, “Wires” key, and the “MONF” key. Continue to hold the three keys down as you press the power button. Hold all the buttons down until you see a display that indicates the PLL REF value. Release the buttons and turn the VFO dial to advance to a menu item other than the PLL REF value. **Now would be a good time to write down all your settings for each band. This could be invaluable information should you ever need to restore your settings to the original factory levels.** The service menu will start up in the 440 band, but you can change to the other 3 transmit bands by pressing the “Band” key. After selecting the band to adjust, rotate the VFO dial until you reach the MAX DEV menu item. Press V/M and then turn the VFO dial to the value you wish to enter. To write this value, press the HM/RV button. Power the unit down and then start up normally to test the new value. To make further adjustments, repeat the process, making sure you are on the correct band. Values that I changed are in red and italicized. My adjusted values are in boldface at the bottom of the chart. I now get one watt out on the 220 mhz band and have plenty of audio on all bands and no PL tone issues on 6 meters.

## Nominal Service Menu Values For My Yaesu VX7R. Yours may be different.

Menu Item:	446 mhz	223 mhz	146 mhz	52 mhz
PLL REF (phase lock loop freq)	122			
HIS SQL (hysteresis)	0	0	0	0
THLD SQL (preset threshold)	166	170	170	168
TIGH SQL (preset tight)	118	140	140	118
S1 LEVEL NFM (s meter)	34	28	28	32
S9 LEVEL NFM (s meter)	68	68	68	70
S1 LEVEL WFM (s meter)	60	52	52	54
S9 LEVEL WFM (s meter)	84	76	76	78
HI POWER (transmit power)	209	142	142	144
L3 POWER (transmit power)	158	112	112	111
<b>L2 POWER (transmit power)</b>	115	<b><i>74</i></b>	87	80
<b>L1 POWER (transmit power)</b>	62	<b><i>60</i></b>	57	51
<b>MAX DEV (tx deviation)</b>	<b><i>43</i></b>	<b><i>53</i></b>	<b><i>112</i></b>	<b><i>145</i></b>
<b>TN 67.0 (ctcss tone level)</b>	55	8	50	<b><i>40</i></b>
<b>TN 123.0 (ctcss tone level)</b>	23	18	15	<b><i>13</i></b>
<b>TN 254.1 (ctcss tone level)</b>	19	26	16	<b><i>15</i></b>
DCS DEV (dcs tone level)	14	29	81	71
LCD TC V (display)	2	2	2	2
LCD IREG (display)	4	4	4	4
<b>MY MAX DEV</b>	<b>8-9-05</b>	<b>70</b>	<b>100</b>	<b>180</b>
<b>MY TN 67.0 (50mhz)</b>	<b>8-9-05</b>			<b>6</b>
<b>MY TN 123.0 (50mhz)</b>	<b>8-9-05</b>			<b>4</b>
<b>MY TN 254.1 (50mhz)</b>	<b>8-9-05</b>			<b>4</b>
<b>MY L1 POWER (220)</b>	<b>10-22-05</b>		<b>74</b>	
<b>MY L2 POWER (220)</b>	<b>11-19-05</b>		<b>106</b>	

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