

 <p><b>YAESU</b> FT-817</p> <p>Access Setup menus by pressing <b>F</b> 1+s, <b>SEL</b> menu# with <b>SEL</b> knob. Press <b>F</b> again, use <b>DIAL</b> to select value, Pr. <b>F</b> to save. See set menus.</p> <p><b>Display Icons</b></p> <ul style="list-style-type: none"> <li>• Top Row Voltage – Or active VFO or mem ch &amp; operating mode.</li> <li>• 2nd Row Frequency – R denotes rear ant</li> <li>• 3rd Row Meter mode – S-met, <b>POw</b>, <b>ALc</b>, <b>SWr</b>, <b>MOdulation</b>, running man = fast tuning, key symbol = locked</li> <li>• Bottom Row Icons for dual watch ‘<b>DW</b>’, +/- offset, Tone (Tx), <b>SQ</b>(Rx) <b>DCS</b>, <b>TX</b> power level, Split &amp; Bat level</li> </ul>	<p><b>Tone Search Scanning</b></p> <ul style="list-style-type: none"> <li>• Press <b>F</b> .5s rotate <b>SEL</b> to display #12 - <b>TCH DCH</b> ---. Press <b>A</b> key for CTCSS or <b>B</b> key for DCS</li> <li>When tone is found, press &amp; hold <b>A</b> key for CTCSS or <b>B</b> key for DCS for 1s to store current tone.</li> </ul> <p><b>TX PWR Levels @ volts</b></p> <ul style="list-style-type: none"> <li>• (no icon) 5W on ext power</li> <li>• (L))) (blinking) 5W on int power</li> <li>• (L))) 2.5W</li> <li>• (L)) 1W</li> <li>• (L) .5W</li> </ul> <ul style="list-style-type: none"> <li>• Press <b>F</b>, rotate select to display # 9 <b>PWR MTR</b> ---. Press <b>A</b> key to set power level for all bands.</li> </ul> <p><b>Supply Voltage</b></p> <p>Nominal: 9.6 -13.8 vdc Current: Rec 250ma S<sub>ql</sub> - 380 open TX = 2 amps</p>	<p><b>Scanning</b></p> <ul style="list-style-type: none"> <li>• In <b>MEM</b>, <b>VFO</b> or <b>PMS</b> mode press <b>F</b> .5s rotate <b>SEL</b> to menu 5. Press <b>A</b> key to start scan. Decimal point blinks, Change dir with dial. Radio must be Squelched to scan.</li> </ul> <p><b>Memory scan skip</b></p> <ul style="list-style-type: none"> <li>• Press <b>F</b> .5s rotate <b>SEL</b> to menu #2 Press <b>B (MC)</b> Ch will skipped.</li> </ul> <p><b>Priority Scan</b></p> <ul style="list-style-type: none"> <li>• Select <b>MEM</b> or <b>VFO</b> mode, Press <b>F</b> .5s. rotate <b>SEL</b> to menu 5 Press <b>B(PRI)</b> Radio checks CH 1 every 5sec</li> </ul> <p><b>DW Scan</b> Same as Priority scan except VFO A and VFO B are checked. Select <b>DW</b> in menu #5.</p> <p><b>Programmable band scan</b></p> <ul style="list-style-type: none"> <li>• Store lower freq in M-PL Store upper freq in M-PU memory.</li> </ul>	<p><b>Smart Search</b></p> <ul style="list-style-type: none"> <li>• Auto stores freqs in selected band above current freq. 50 ch available Available in AM &amp; FM mode. Set <b>SQL</b> for no noise. Set <b>VFO</b> on band to search. Press <b>F</b> .5 rotate <b>SEL</b> to menu 6, press <b>B (SCH)</b> key, one sweep performed. Rotate <b>SEL</b> to see stored memories. To disable press <b>B</b> again.</li> </ul> <p><b>Spectrum Scope</b></p> <ul style="list-style-type: none"> <li>• Allows view of 5 channels +/- Press <b>F</b> 1s, rotate <b>SEL</b> to menu #43 (SCOPE) Rotate dial to select desired sweep mode, press and hold <b>F</b> 1s to store. To activate select desired band in VFO mode. Press <b>F</b> .5s rotate <b>SEL</b> to menu 6, press <b>A (SSM)</b> key. To disable press <b>A (SSM)</b> key, once more.</li> </ul>	<p><b>Cloning</b></p> <ul style="list-style-type: none"> <li>• Press both Mode ◀▶ keys while turning on both radios, displays read “CLONE” Press <b>C</b> key on destination radio, Press <b>A</b> key on source radio. Use homemade cable</li> </ul> <p><b>Microprocessor Reset</b></p> <ul style="list-style-type: none"> <li>• Press and hold <b>F</b> while turning power on, resets menus to default.</li> </ul> <p><b>Everything Reset</b></p> <ul style="list-style-type: none"> <li>• Press and hold <b>F</b> + <b>V/M</b> while turning power on. Reset everything</li> </ul> <p><b>Memory Reset</b></p> <ul style="list-style-type: none"> <li>• Press and hold <b>V/M</b> while turning power on. Resets all memories</li> </ul> <p><b>Yaesu serial number format</b></p> <ul style="list-style-type: none"> <li>• YMLLNNNN where Y= last digit of year, M = month with C= January. LL =lot number and NNNN = unit number within lot.</li> </ul>																																																																																																																																																																																																																																																								
<p><b>Operating Bands</b></p> <table border="1"> <thead> <tr> <th>Band</th> <th>Freq Range (MHz)</th> <th>kHz step</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>HF</td> <td>0.1 - 33</td> <td>9-10</td> <td>ALL</td> </tr> <tr> <td>6-M</td> <td>33 - 56</td> <td>10-100</td> <td>ALL</td> </tr> <tr> <td>FM Bcst</td> <td>76 -108</td> <td>5-100</td> <td>FM-W</td> </tr> <tr> <td>Aircraft</td> <td>108-137</td> <td>5-100</td> <td>AM</td> </tr> <tr> <td>2-m</td> <td>137-154</td> <td>5-100</td> <td>ALL</td> </tr> <tr> <td>70-cm</td> <td>420-470</td> <td>10-100</td> <td>ALL</td> </tr> </tbody> </table> <p><b>RPTR Uplink Freq Check</b></p> <p>Press <b>F</b> .5s rotate <b>SEL</b> to display #4 <b>RPT REV TON</b>. Press <b>B (REV)</b> key Repeat to go back. Works on Repeater memories only.</p> <p><b>Masking Memories</b></p> <p>Press <b>F</b> .5s rotate <b>SEL</b> to menu 2 <b>MW MC TAG</b>. Press <b>A</b> key. Select mem ch to be masked, Press <b>B</b> key. To restore, repeat. Masked channels can be overwritten but not deleted. Ch 1 cannot be masked.</p>	Band	Freq Range (MHz)	kHz step	Mode	HF	0.1 - 33	9-10	ALL	6-M	33 - 56	10-100	ALL	FM Bcst	76 -108	5-100	FM-W	Aircraft	108-137	5-100	AM	2-m	137-154	5-100	ALL	70-cm	420-470	10-100	ALL	<p><b>Memory Storage</b></p> <ul style="list-style-type: none"> <li>• In <b>VFO</b> mode select frequency, mode and all options including Tone and repeater shift if needed. Press <b>F</b> .5s rotate <b>SEL</b> to menu , press <b>A (MW)</b>, rotate <b>SEL</b> to channel to be stored. Press and hold <b>MW</b>, wait for 2 beeps.</li> </ul> <p><b>Memory Labels</b></p> <ul style="list-style-type: none"> <li>• Press <b>F</b> for 1s, rotate <b>SEL</b> to #35. Press <b>SEL</b> .5s, rotate <b>DIAL</b> for first letter, Rotate <b>SEL</b> for next character, repeat until end. Press and hold <b>F</b> 1s to save and exit.</li> </ul> <p><b>Storing “split” memories</b></p> <ul style="list-style-type: none"> <li>• Store RX freq as normal above, then select TX freq. DO NOT rotate <b>SEL</b>. Press and hold <b>PTT</b> then press and hold <b>A</b> again 1s until 2 beeps. Display reads - +.</li> </ul>	<p><b>Move memory Ch to VFO</b></p> <ul style="list-style-type: none"> <li>• On <b>Mem</b> ch, <b>F</b> .5s, then menu 1 Press <b>A (A=B)</b> until beep</li> </ul> <p><b>Storing Home channels</b></p> <ul style="list-style-type: none"> <li>• Proceed as in normal memory storage except after pressing <b>MW</b> then press and hold <b>HOME</b> for 1s. There is one home channel for HF, 50mHz, 144mHz and 440 mHz.</li> </ul> <p><b>QMB Channel storage</b></p> <ul style="list-style-type: none"> <li>• <b>QMB</b> stores one freq for quick access. Tune in desired freq, Press and hold <b>V/M</b> for 2 beeps, <b>SEL</b> menu #3, Press <b>A</b> to store in <b>QMB</b> register. Use #3 <b>B(RCL)</b> to recall.</li> </ul> <p><b>ARTS- see manual for setup</b></p> <ul style="list-style-type: none"> <li>• Both radios must be in <b>DCS</b>..</li> <li>• Press <b>F</b> key for .5s. <b>SEL</b> Menu 6. Press <b>C(ART)</b> Display reads <b>IN</b> or <b>OUT RANGE</b>?. Repeat again ends</li> </ul>	<p><b>Set Menus</b> Pr. <b>F</b> 1s, <b>SEL</b>#, pr. <b>F</b> .5s, then <b>DIAL</b> value, press <b>F</b> to save</p> <table border="1"> <thead> <tr> <th>#</th> <th>Title</th> <th>#</th> <th>Title</th> </tr> </thead> <tbody> <tr><td>1</td><td>144 ARS</td><td>29</td><td>FM MIC GAIN</td></tr> <tr><td>2</td><td>430 ARS</td><td>30</td><td>FM STEP</td></tr> <tr><td>3</td><td>9600 PKY MIC</td><td>31</td><td>ID STORE</td></tr> <tr><td>4</td><td>AM/FM DIAL EN</td><td>32</td><td>LOCK MODE</td></tr> <tr><td>5</td><td>AM MIC GAIN</td><td>33</td><td>MAIN STEP DIAL</td></tr> <tr><td>6</td><td>AM STEP SIZE</td><td>34</td><td>MEM GROUP</td></tr> <tr><td>7</td><td>ANTENNA F/R</td><td>35</td><td>MEM TAG ALPHA</td></tr> <tr><td>8</td><td>APO TIME SET</td><td>36</td><td>MIC KEY ENABLE</td></tr> <tr><td>9</td><td>ARTS BEEP SET</td><td>37</td><td>MIC SCAN ENABLE</td></tr> <tr><td>10</td><td>BACKLIGHT SET</td><td>38</td><td>OPTIONAL FILTER</td></tr> <tr><td>11</td><td>BATT CHG TIME</td><td>39</td><td>PKT MIC GAIN</td></tr> <tr><td>12</td><td>BEEP FREQ</td><td>40</td><td>PKT RATE SPEED</td></tr> <tr><td>13</td><td>BEEP VOLUME</td><td>41</td><td>RESUME SCAN MODE</td></tr> <tr><td>14</td><td>CAT RATE SET</td><td>42</td><td>RPTR SHIFT SIZE</td></tr> <tr><td>15</td><td>COLOR OF LCD</td><td>43</td><td>SCOPE MODE SEL</td></tr> <tr><td>16</td><td>CONTRAST LCD</td><td>44</td><td>SIDETONE LEVEL</td></tr> <tr><td>17</td><td>CW BK IN DELAY</td><td>45</td><td>SOL-RF KNOB SET</td></tr> <tr><td>18</td><td>CW ID ENABLE</td><td>46</td><td>SSB IC GAIN</td></tr> <tr><td>19</td><td>CWPADDLE POL</td><td>47</td><td>SSB STEP SIZE</td></tr> <tr><td>20</td><td>CW PITCH SET</td><td>48</td><td>TONE FREQ SET</td></tr> <tr><td>21</td><td>CW SPEED</td><td>49</td><td>TOT-TIME OUT TIMER</td></tr> <tr><td>22</td><td>CW WEIGHT</td><td>50</td><td>VOX DELAY SET</td></tr> <tr><td>23</td><td>DCS CODE</td><td>51</td><td>VOX GAIN SET</td></tr> <tr><td>24</td><td>DIGI OFFSET</td><td>52</td><td>EXTEND MENUS 53-57</td></tr> <tr><td>25</td><td>DIG MIC GAIN</td><td>53</td><td>DCS INVERT</td></tr> <tr><td>26</td><td>DIGI MODE SET</td><td>54</td><td>RX LSB CARRIER SET</td></tr> <tr><td>27</td><td>DIGI SHIFT CAR</td><td>55</td><td>RX USB CARRIER SET</td></tr> <tr><td>28</td><td>EMERG 5167.5</td><td>56</td><td>TX LSB CARRIER SET</td></tr> <tr><td></td><td></td><td>57</td><td>TX USB CARRIER SET</td></tr> </tbody> </table>	#	Title	#	Title	1	144 ARS	29	FM MIC GAIN	2	430 ARS	30	FM STEP	3	9600 PKY MIC	31	ID STORE	4	AM/FM DIAL EN	32	LOCK MODE	5	AM MIC GAIN	33	MAIN STEP DIAL	6	AM STEP SIZE	34	MEM GROUP	7	ANTENNA F/R	35	MEM TAG ALPHA	8	APO TIME SET	36	MIC KEY ENABLE	9	ARTS BEEP SET	37	MIC SCAN ENABLE	10	BACKLIGHT SET	38	OPTIONAL FILTER	11	BATT CHG TIME	39	PKT MIC GAIN	12	BEEP FREQ	40	PKT RATE SPEED	13	BEEP VOLUME	41	RESUME SCAN MODE	14	CAT RATE SET	42	RPTR SHIFT SIZE	15	COLOR OF LCD	43	SCOPE MODE SEL	16	CONTRAST LCD	44	SIDETONE LEVEL	17	CW BK IN DELAY	45	SOL-RF KNOB SET	18	CW ID ENABLE	46	SSB IC GAIN	19	CWPADDLE POL	47	SSB STEP SIZE	20	CW PITCH SET	48	TONE FREQ SET	21	CW SPEED	49	TOT-TIME OUT TIMER	22	CW WEIGHT	50	VOX DELAY SET	23	DCS CODE	51	VOX GAIN SET	24	DIGI OFFSET	52	EXTEND MENUS 53-57	25	DIG MIC GAIN	53	DCS INVERT	26	DIGI MODE SET	54	RX LSB CARRIER SET	27	DIGI SHIFT CAR	55	RX USB CARRIER SET	28	EMERG 5167.5	56	TX LSB CARRIER SET			57	TX USB CARRIER SET	<table border="1"> <thead> <tr> <th>#</th> <th>A Function</th> <th>B Menus</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A/B</td> <td>A=B</td> <td>SPL</td> </tr> <tr> <td colspan="4">Change VFOs make equal split oper</td> </tr> <tr> <td>2</td> <td>MW</td> <td>MC</td> <td>TAG</td> </tr> <tr> <td colspan="4">Mem Write mem skip scan set titk</td> </tr> <tr> <td>3</td> <td>STO</td> <td>RCL</td> <td>PMS</td> </tr> <tr> <td colspan="4">Store QMB Recall QMB Prg mem Sr</td> </tr> <tr> <td>4</td> <td>RPT</td> <td>REV</td> <td>TON</td> </tr> <tr> <td colspan="4">Rptr shift +/- Rptr reverse tone en/de</td> </tr> <tr> <td>5</td> <td>SCN</td> <td>PRI</td> <td>DW</td> </tr> <tr> <td colspan="4">Scan on/off priority on dual watch</td> </tr> <tr> <td>6</td> <td>SSM</td> <td>SCH</td> <td>ART</td> </tr> <tr> <td colspan="4">Spec scope smart search auto transp</td> </tr> <tr> <td>7</td> <td>IPO</td> <td>ATT</td> <td>NAR</td> </tr> <tr> <td colspan="4">Intercept point attenuator narrow filte</td> </tr> <tr> <td>8</td> <td>NB</td> <td>AGC</td> <td>(none)</td> </tr> <tr> <td colspan="4">Noise blanker set AGC time</td> </tr> <tr> <td>9</td> <td>PWR</td> <td>MTR</td> <td>(none)</td> </tr> <tr> <td colspan="4">Power level set set meter function</td> </tr> <tr> <td>10</td> <td>VOX</td> <td>BK</td> <td>KYR</td> </tr> <tr> <td colspan="4">VOX on/off cw breakin key type</td> </tr> <tr> <td>11</td> <td>CHG</td> <td>VLT</td> <td>DSP</td> </tr> <tr> <td colspan="4">Start charge volts display set disp siz</td> </tr> <tr> <td>12</td> <td>TCH</td> <td>DCH</td> <td>(none)</td> </tr> <tr> <td colspan="4">Tone search DCS search</td> </tr> </tbody> </table>	#	A Function	B Menus	C	1	A/B	A=B	SPL	Change VFOs make equal split oper				2	MW	MC	TAG	Mem Write mem skip scan set titk				3	STO	RCL	PMS	Store QMB Recall QMB Prg mem Sr				4	RPT	REV	TON	Rptr shift +/- Rptr reverse tone en/de				5	SCN	PRI	DW	Scan on/off priority on dual watch				6	SSM	SCH	ART	Spec scope smart search auto transp				7	IPO	ATT	NAR	Intercept point attenuator narrow filte				8	NB	AGC	(none)	Noise blanker set AGC time				9	PWR	MTR	(none)	Power level set set meter function				10	VOX	BK	KYR	VOX on/off cw breakin key type				11	CHG	VLT	DSP	Start charge volts display set disp siz				12	TCH	DCH	(none)	Tone search DCS search			
Band	Freq Range (MHz)	kHz step	Mode																																																																																																																																																																																																																																																									
HF	0.1 - 33	9-10	ALL																																																																																																																																																																																																																																																									
6-M	33 - 56	10-100	ALL																																																																																																																																																																																																																																																									
FM Bcst	76 -108	5-100	FM-W																																																																																																																																																																																																																																																									
Aircraft	108-137	5-100	AM																																																																																																																																																																																																																																																									
2-m	137-154	5-100	ALL																																																																																																																																																																																																																																																									
70-cm	420-470	10-100	ALL																																																																																																																																																																																																																																																									
#	Title	#	Title																																																																																																																																																																																																																																																									
1	144 ARS	29	FM MIC GAIN																																																																																																																																																																																																																																																									
2	430 ARS	30	FM STEP																																																																																																																																																																																																																																																									
3	9600 PKY MIC	31	ID STORE																																																																																																																																																																																																																																																									
4	AM/FM DIAL EN	32	LOCK MODE																																																																																																																																																																																																																																																									
5	AM MIC GAIN	33	MAIN STEP DIAL																																																																																																																																																																																																																																																									
6	AM STEP SIZE	34	MEM GROUP																																																																																																																																																																																																																																																									
7	ANTENNA F/R	35	MEM TAG ALPHA																																																																																																																																																																																																																																																									
8	APO TIME SET	36	MIC KEY ENABLE																																																																																																																																																																																																																																																									
9	ARTS BEEP SET	37	MIC SCAN ENABLE																																																																																																																																																																																																																																																									
10	BACKLIGHT SET	38	OPTIONAL FILTER																																																																																																																																																																																																																																																									
11	BATT CHG TIME	39	PKT MIC GAIN																																																																																																																																																																																																																																																									
12	BEEP FREQ	40	PKT RATE SPEED																																																																																																																																																																																																																																																									
13	BEEP VOLUME	41	RESUME SCAN MODE																																																																																																																																																																																																																																																									
14	CAT RATE SET	42	RPTR SHIFT SIZE																																																																																																																																																																																																																																																									
15	COLOR OF LCD	43	SCOPE MODE SEL																																																																																																																																																																																																																																																									
16	CONTRAST LCD	44	SIDETONE LEVEL																																																																																																																																																																																																																																																									
17	CW BK IN DELAY	45	SOL-RF KNOB SET																																																																																																																																																																																																																																																									
18	CW ID ENABLE	46	SSB IC GAIN																																																																																																																																																																																																																																																									
19	CWPADDLE POL	47	SSB STEP SIZE																																																																																																																																																																																																																																																									
20	CW PITCH SET	48	TONE FREQ SET																																																																																																																																																																																																																																																									
21	CW SPEED	49	TOT-TIME OUT TIMER																																																																																																																																																																																																																																																									
22	CW WEIGHT	50	VOX DELAY SET																																																																																																																																																																																																																																																									
23	DCS CODE	51	VOX GAIN SET																																																																																																																																																																																																																																																									
24	DIGI OFFSET	52	EXTEND MENUS 53-57																																																																																																																																																																																																																																																									
25	DIG MIC GAIN	53	DCS INVERT																																																																																																																																																																																																																																																									
26	DIGI MODE SET	54	RX LSB CARRIER SET																																																																																																																																																																																																																																																									
27	DIGI SHIFT CAR	55	RX USB CARRIER SET																																																																																																																																																																																																																																																									
28	EMERG 5167.5	56	TX LSB CARRIER SET																																																																																																																																																																																																																																																									
		57	TX USB CARRIER SET																																																																																																																																																																																																																																																									
#	A Function	B Menus	C																																																																																																																																																																																																																																																									
1	A/B	A=B	SPL																																																																																																																																																																																																																																																									
Change VFOs make equal split oper																																																																																																																																																																																																																																																												
2	MW	MC	TAG																																																																																																																																																																																																																																																									
Mem Write mem skip scan set titk																																																																																																																																																																																																																																																												
3	STO	RCL	PMS																																																																																																																																																																																																																																																									
Store QMB Recall QMB Prg mem Sr																																																																																																																																																																																																																																																												
4	RPT	REV	TON																																																																																																																																																																																																																																																									
Rptr shift +/- Rptr reverse tone en/de																																																																																																																																																																																																																																																												
5	SCN	PRI	DW																																																																																																																																																																																																																																																									
Scan on/off priority on dual watch																																																																																																																																																																																																																																																												
6	SSM	SCH	ART																																																																																																																																																																																																																																																									
Spec scope smart search auto transp																																																																																																																																																																																																																																																												
7	IPO	ATT	NAR																																																																																																																																																																																																																																																									
Intercept point attenuator narrow filte																																																																																																																																																																																																																																																												
8	NB	AGC	(none)																																																																																																																																																																																																																																																									
Noise blanker set AGC time																																																																																																																																																																																																																																																												
9	PWR	MTR	(none)																																																																																																																																																																																																																																																									
Power level set set meter function																																																																																																																																																																																																																																																												
10	VOX	BK	KYR																																																																																																																																																																																																																																																									
VOX on/off cw breakin key type																																																																																																																																																																																																																																																												
11	CHG	VLT	DSP																																																																																																																																																																																																																																																									
Start charge volts display set disp siz																																																																																																																																																																																																																																																												
12	TCH	DCH	(none)																																																																																																																																																																																																																																																									
Tone search DCS search																																																																																																																																																																																																																																																												