

F89-1-1.

Selectivity on the R-5000 is provided by crystal filters at the 8.83 mhz second IF. The shape factor of the stock 6 khz AM filter is rather dismal, being 6 khz wide at -6db, but 24 khz at -60 db! Needless to say, the optional YK-88A-1 filter is highly recommended. It has the same width at -6 db but the -60 db skirts are improved to a measured 10.2 khz. The supplied SSB filter is much better, giving values of 2.5 khz and 4.9 khz at -6/-60 db. These figures are good but less than measured in ICOM R-71, which uses cascaded filters at 9mhz and 455 khz, as standard. The comparable bandwidth in the R-71 measured 2.4 khz at -6 but only 3.1 khz at -60 db. The optional 1.8 SSB filter wasn't available for testing. I did install the 270hz CW filter, which seemed to be a good performer, but I could still detect a significant amount of signal leakage around it. Aftermarket filters are available from firms such as International Radio, although not tested personally, they should offer better shape factors than the factory filters. The selectivity switching is well designed, allowing any filter in any mode to be selected manually, or in <AUTO> the best filter for that mode will be engaged. Selectivity options are detailed in the accompanying table, again from the R-5000 manual.

OPTIONAL FILTER COMBINATION	SELECTIVITY SWITCH POSITION	MODE KEY					FM
		USB	LSB	CW	FSK	AM	
N: None M1: None	AUTO			2.4 kHz		6 kHz*	12 kHz
	M						
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: None M1: YK-88SN	AUTO	2.4 kHz		1.8 kHz		6 kHz*	12 kHz
	M			1.8 kHz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: YK-88C M1: None	AUTO	2.4 kHz		500 Hz		6 kHz*	12 kHz
	M			270 Hz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: YK-88CH M1: None	AUTO	2.4 kHz		500 Hz		6 kHz*	12 kHz
	M			270 Hz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: YK-88C and M1: YK-88SN	AUTO	2.4 kHz		500 Hz		6 kHz*	12 kHz
	M			1.8 kHz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: YK-88CH and M1: YK-88SV	AUTO	2.4 kHz		270 Hz		6 kHz*	12 kHz
	M			1.8 kHz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			
N: YK-88CH and M1: YK-88C	AUTO	2.4 kHz		270 Hz		6 kHz*	12 kHz
	M			500 Hz			
	M1			2.4 kHz			
	M2						
	W			6 kHz*			

\* When the YK-88A-1 Crystal Filter is installed in the filter for W position, selectivity will not be changed, but the shape factor will be improved.

With the antenna disconnected, very few spurious signals could be noted. Weak harmonics could be heard every 500 khz, from 9 mhz up to about 15 mhz, except for the multiples of 9 mhz at 18 and 27 mhz. Other than a weak signal at the 8830 khz IF, which didn't move the S meter, the R-5000 has a very clean and birdie free tuning range. This especially important in LW and MW, where the presence of a weak "het" can mean some foreign broadcaster's signal is starting to fade in. In comparison, on lower frequencies, the R-71 has some weak interference birdies from the display.

The R-5000 has the usual built in, top facing speaker which provides quite decent sound. As to be expected, an external speaker would improve things. The front panel tape output is a standard high level signal, designed to work into the "line" or "aux" input on a tape recorder or stereo amplifier. If your cassette only has a "MIC" level input, you'll need to purchase or build an attenuating patch cord. The high level output is somewhat stronger than the R71 provides, which was on the weak side for some systems.

Overall, the R-5000 is a high quality receiver that offers a good combination of features and performance at a competitive price. In Canada, the list price is in the \$1200 range. While slightly inferior to the ICOM R-71 in some areas, in actual listening there isn't much difference. To choose between the two, you have to decide which features are most important to you. Some of these features are implemented very well, others could be done better. Now, where's that switch to turn off that blasted beeper? .....

*Don Norman*

## AMERICAN FORCES NETWORK (AFN) EUROPE

Compiled by Bill Harms 19 January 1987

AFN Berlin Berlin	1107	AFN Nürnberg Nürnberg	1107
		Ansbach	1485
		Bamberg	1143
AFN Bremerhaven Bremerhaven	1143	Crailsheim	1485
		Grafenwöhr	1107
		Hof	1143
AFN Frankfurt Frankfurt	873	Hohenfels	1485
Bad Hersfeld	1143	Regensburg	1485
Fulda	1143		
Gießen	1143	AFN Stuttgart Stuttgart	1143
Mönchengladbach	1143	Göppingen	1143
Wildflecken	1143	Heidelberg	1143
		Karlsruhe	1143
AFN Kaiserslautern Kaiserslautern	1143	AFN Würzburg Würzburg	1143
Bitburg	1143	Bad Kissingen	1143
		Schweinfurt	1143
AFM Munich Munich	1107	Wertheim	1143
Augsburg	1485		
Berchtesgaden	1485		
Garmisch-P.	1485		

\* -The key station for this transmitter is not known and is assumed to AFN Frankfurt.

AFN Berlin broadcasts a separate program that is played on the AFN FM network.

This list was compiled from information obtained directly from AFN Frankfurt and from the AFN TV-Guide.

### AFN Radio Programs

#### AM MONDAY THROUGH FRIDAY

0005 Rick Dees	1205 Gene Price (Country)
0105 Joe Reiling	1305 AFN Midday
0130 Jazz Beat	1405 AFN Midday
0205 Louis Foster	1505 Local Afternoon Show
0305 Radio Theater	1605 Local Afternoon Show
0405 Chris Lane	1705 Local Afternoon Show
0505 Local Morning Show	1800 AFN Newsworld
0600 News/Sports	Commentary
0615 Local Morning Show	1905 Harry Newman (Country)
0700 AFN Newsworld	2005 Radio Theater
0731 Local Morning Show	2030 Jazz Beat
0805 Local Morning Show	2105 Don Tracy (Soul)
0905 Charlie Tune	2200 News/Sports/Harvey
1005 AFN Today	2230 Jim Pewter (Oldies)
1105 AFN Today	2305 Mary Turner (Rock)
1155 AFN Sports	

#### AM SATURDAY

0005 Country Countdown I	1205 Sports
0105 Country Countdown II	1220 This is Europe (Travel)
0205 Country Countdown III	1305 Country Countdown I
0305 Country Countdown IV	1405 Country Countdown II
0405 Viva (Latin)	1505 Country Countdown III
0505 Dick Clark's Rock, Roll & Remember I	1605 Country Countdown IV
0605 Dick Clark's Rock, Roll & Remember II	1705 The Countdown I
0705 Dick Clark's Rock, Roll & Remember I	1805 The Countdown II
0805 Local Morning Show	1905 Dick Clark's Rock, Roll & Remember I
0905 Sports	2005 Dick Clark's Rock, Roll & Remember II
0910 Local Morning Show	2105 Dick Clark's Rock, Roll & Remember III
1005 Local Morning Show	2205 Golden Days of Radio
1105 Local Morning Show	2305 Off the Record

#### AM SUNDAY

0005 King Biscuit Flower Hour	1105 Singing Years
0105 Live from Gilley's	1205 Sports
0205 American Top 40 I	1230 Jam Session (Jazz)
0305 American Top 40 II	1305 The Comedy Show
0405 American Top 40 III	1405 American Top 40 I
0505 American Top 40 IV	1505 American Top 40 II
0605 Country Crossroads	1605 American Top 40 III
0630 Banner of Faith	1705 American Top 40 IV
0705 Salt Lake Choir	1805 Commentary
0730 East of Eden	1905 Golden Days of Radio
0805 Sounds of Sunday	2005 Live from Gilley's
0855 Sports	2105 Viva (Latin)
0905 Amen Corner	2205 Doug Ordunio
1005 Open Door	2305 Musical
1030 Live from the Rock	

## A DXer's TECHNICAL GUIDE

Now in its 2nd edition, this 120-page book answers questions on how receivers work, how to make them work better, what audio filters and loop antennas will do for you, how to build a beverage and phasing unit, and much more. Only \$5.50 for members, \$6.50 for nonmembers (\$2.00 extra for overseas airmail). Write IRCA, P.O. Box 21074, Seattle, WA 98111.