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3 ► memories in seconds, hard copy print-outs and so on, so it is no wonder that other manufacturers have added this feature to their sets. The SX-400 can be fitted with an RS-232 port, the Yaesu FRG-9600 has a socket on the back for the Yaesu interface and the new AOR AR-2002 also has a socket that allows their own interface to be plugged straight in.

It seems that computer control is here to stay and it would appear that the next steps forward in scanning will be made not by the manufacturers improving the hardware, but by programmers developing customised software to control the receiver in exactly the way that the customer wants it to be controlled.

The Law

America is the true home of scanning, probably because their lawmakers appear to have a more liberal attitude than ours. Their philosophy seems to be to allow the individual to do almost anything, unless there is a good reason not to. This means that the American radio enthusiast can legally listen to transmissions from the police, fire and ambulance services as well as from aircraft, taxis, buses, gas, water and electricity company vans and so on. It is even possible to buy an

assortment of publications that list the frequencies that are used by these services as well as those of the CIA, FBI and various other government departments. Some states prohibit the use of scanners covering police frequencies in vehicles, but apart from that there are very few laws controlling their use. It's hardly surprising that they sell so well in America.

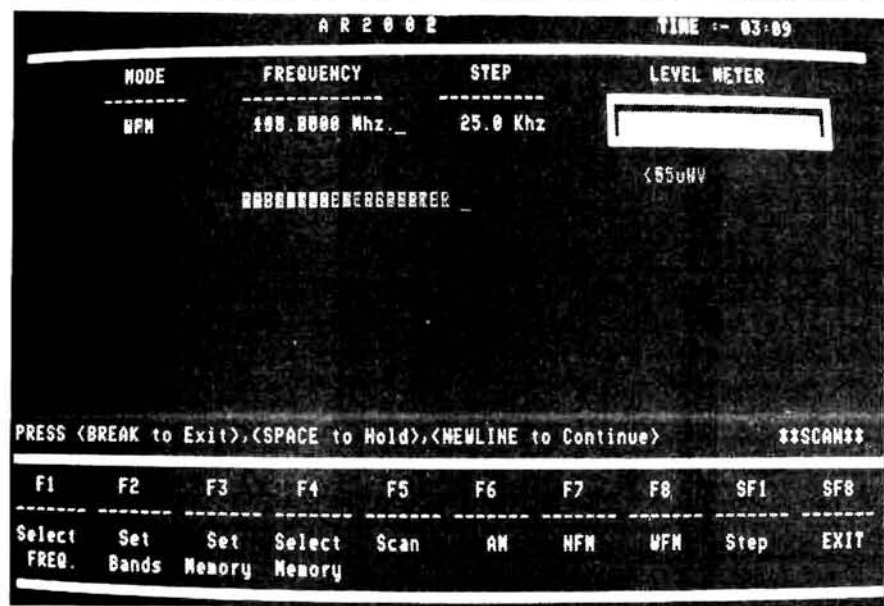
Here in Britain the position is very different. The various Wireless Telegraphy Acts make it illegal to listen to anything at all, except authorised broadcasting stations and licensed radio amateurs, unless you are in possession of the appropriate licence. There is a fee for operating a television receiver and we pay this by buying a television licence. Quite a few people also have a British CB licence and this allows them to use the British CB system. There are also licences for the

aircraft and marine bands available to people who can show a genuine requirement to use or listen on them. Some press agencies and meteorological services will issue letters of authority to enthusiasts wanting to receive their transmissions for experimental purposes.

There is a popular misconception that we are allowed to listen to any transmissions as long as we do not divulge the contents of anything we hear. This is not so. There is a part of the Act that prohibits us from divulging information but this only applies to transmissions that we may have tuned into accidentally, which is all too easy to do in this country because various public services still use part of the v.h.f. broadcast band 88-108MHz for their radio communications. My self-seeking car radio is always stopping on these stations and when it does, I am obliged to immediately retune it otherwise I would be breaking the law.

I often receive letters from readers who would like to know some of the "interesting" frequencies. Although our laws do not specifically make it illegal to publish this sort of information, it could be construed as encouraging others to break the law. For this reason it is *PW* policy not to print details of spot frequencies used by radio services which enthusiasts cannot legally listen to. Please do not write in asking for such frequencies. If you want to know which parts of the spectrum have been allocated to various services, HMSO will shortly publish *The UK Frequency Allocation Table*, ISBN 011 51 38 196.

To those of us who have been playing with scanners almost since their inception, the recent advances in scanner design have proved to be expensive, I now own four! Be warned—scanning is addictive. **PW**



► Databank "HF Band Plans" Mar
Pocket Magnifier..... Apr

NEW BOOKS/BOOKSHELF

Cable Television by Jeff Maynard 21 Nov
Computer & Telecommunications
Handbook by Jeff Maynard 17 Nov
How to Pass the Radio Amateurs'
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Secret Warfare by Pierre Lorain, translated
by David Kahn 43 July

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Amateur Radio Satellites the first 25 years by <i>Arthur C. Gee G2UK</i>	30	Jul
Beam Antenna Handbook by <i>William I. Orr W6SAI & Stuart D. Cowan W2LX</i>	25	Oct
Electronics for Electricians and Engineers by <i>Ian R. Sinclair</i>	24	Dec
Guide to Facsimile Stations by <i>Joerg Klingenfuss</i>	34	Jun

Guide to Former Utility Transmissions by Joerg Klingenfuss.....	50	Apr
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Guide to World Wide Television Test Cards Edition 2 by Keith Hamer and Garry Smith	46	Aug
Interference Handbook edited by William I. Orr W6SAI	30	Jul
Power Selection Guide (BP235) by J.C.J. Van de Ven	68	May
Practical Electronics Calculations & Formulae (BP144) by F.A. Wilson.....	30	Jul
Private Mobile Radio by John Davies.....	24	Dec
Radio Teletype Code Manual 10th Edition by Joerg Klingenfuss.....	34	Jun
Scanners 2 by Peter Rouse GU1DKD	68	May
The History of Roberts Radio	30	Jul
The International VHF FM Guide 7th Edition by Julian Baldwin G3UHK & Kris Partridge G8AUU	34	Jun
W1FB's Antenna Notebook by Doug DeMaw W1FB	25	Oct

PRODUCTS

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An Active Band-pass/Rejection Filter	R.E. Barber G3NEF	18	Aug 1989
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PW 144MHz QRP Contest Rules	Neill Taylor G4HLX	22	June 1989
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Talking Point - What is Happening to Our Society	Geoff Arnold G3GSR	20	May 1989
The Balloon Goes Up! Ground to Air Wireless in 1899	Chas E. Miller	23	Sept 1989
The Making of the PW/SWM Radio Information Cassette	LiveWire	41	Nov 1989
The Simple Contact	Michael John York G1BK1	21	Mar 1989
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They Said We Couldn't Do It... But We Did!	GB2EC	34	July 1989
Two Years of the Friedrichshafen Amateur Radio Show	Roger Hall G4TNT	30	Nov 1989
Valved Communications Receivers - The DST100 (Part 2)	Chas E. Miller	23	Jan 1989
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The Collins 75A-2	Chas. E. Miller	37	May 1989
Wireless Goes To War - The First Time	Tim Wander	34	May 1989
Wireless in 1928 Part 1	John D. Heys G3BDQ	48	Mar 1989
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Designing Passive Attenuator Networks	S. Niewiadomski	52	Nov 1989
Enhancement of HF Signals by Polarisation Control Part 1	B. Sykes G2HCG	26	Nov 1989
Enhancement of HF Signals by Polarisation Control Part 2	B. Sykes G2HCG	36	Dec 1989
Introduction to Digital Communications	J. Huggins G0DZX	44	Feb 1989
Motorola's One Chip Radio	Brian Dance	22	Nov 1989
On the Line to CAIRO Part 1	Dr Peter Best G8CQH	28	Jul 1989
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Phase Locked Loop for the Measurement of Adjacent Channel Noise	Martin Poppie	41	Oct 1989
Reading & Understanding Circuit Diagrams Part 10	R.F. Fautley G3ASG	28	Jan 1989
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Simplified Filter Design Routine	Ben Sullivan	28	Apr 1989
Some Directional Antennas for the HF Bands	Malcolm Kirk	18	June 1989
Surface Mount Devices and the Amateur Part 1	W. Mooney G3VZU	22	Aug 1989
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Alinco DJ-100E 144MHz hand-held Transceiver	Mike Richards G4WNC	23	Dec 1989
Azden PCS-6000 144MHz FM Tcvr & Airband RX	Mike Richards G4WNC	37	Nov 1989
Cushcraft 40-2CD 2-element Yagi for 7MHz	Ron Stone GW3YDX	40	June 1989
ERA BP34 Communications Filter	Rev G.C. Dobbs G3RJV	46	Sept 1989
Icom IC-3210 Dual-band Receiver	Chris Lorek G4HCL	28	Mar 1989
Kanga "Cheriton" 80/20m Receiver Kit	Colin Turner G3VTT	39	Oct 1989
Kenwood TS-790E Tri-bander	Ken Michaelson G3R0G	50	May 1989
Lake Electronics DTR3 3.5MHz CW Trcv. Kit	Mike Richards G4WNC	18	Sept 1989
Navico AMR1000S 144MHz FM Mobile TX	Mike Richards G4WNC	26	Aug 1989
Standard C5200ED VHF/UHF Transceiver	Mike Richards G4WNC	32	Feb 1989
Team TRX-404 CB Transceiver	Richard Ayley G6AKG	31	May 1989
The Amp Supply Co LK500-ZC HF Linear	Ken Michaelson G3R0G	33	Apr 1989
The Ten-Tec Paragon 585 HF Transceiver	Ken Michaelson G3R0G	18	July 1989

Free Gifts

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New Books

Bookshelf - Novice Antenna Notebook	Doug DeMaw W1FB	17	July 1989
Bookshelf - The Radar War	David Pritchard	17	July 1989

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Amateur Satellites	Pat Gowen G3IOR	60	Sept 1989
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AES Pyrotechnics - Fireworks at Your Rally	14	July 1989
Alpha Electronics Ltd - Multifunctional DMM	15	July 1989
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Swap Spot		44	May 1989
Swap Spot		44	Oct 1989
Swap Spot		45	Jan 1989
Swap Spot		47	July 1989
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Swap Spot		48	May 1989
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Write On		12	Aug 1989
Write On		12	Aug 1989
Write On		12	July 1989
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Write On		12	Mar 1989
Write On		12	May 1989
Write On		12	Sept 1989
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Special Offers

Filter Handbook - A practical design guide	44	Sept 1989
Gamma LH735 Double Drive Headphones	38	Dec 1989
Guide to Broadcasting Stations 20th Ed.	21	May 1989
Hamdisk 1 & 2	29	Oct 1989
Leicester Show Voucher Number One	43	Oct 1989
Leicester Show Voucher Number Two	29	Nov 1989
Miniature Dual-band Antennas and Mounts	37	Sept 1989
Newnes Short Wave Listening Handbook	15	Apr 1989
Radio Information Cassette - 1	40	Nov 1989

Competitions

Mizuhu MX transceiver	48	June 1989
Wordsearch		November 1989
Wordsearch		December 1989

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A Small Yagi for 50MHz	Ken Willis G8VR	22	July 1989
A Transmit Control For Mobile Operation	James M. Bryant G4CLF	24	July 1989
Acoustically Tuned CW Loudspeaker	Richard Q Marris G2BZQ	51	Mar 1989
Adaptation of Plug Top PSU	Michael Stott G8BGU	44	Oct 1989
An Active Band-pass/Rejection Filter	R.E. Barber G3NEF	18	Aug 1989
An Experimental AM Transmitter for 1.8MHz	J. Cronk GW3MED	48	Nov 1989
Backyard Antennas	Peter Labron G0DWO	47	June 1989
Chicken-wire Discone	Tony Gibbey G4YTG	26	Jan 1989
Crystal Locked DC to AC Power Converter	M.J. York G1BKI	34	Feb 1989
Experimental HF Loopstick Antenna	Richard Q. Marris G2BZQ	47	May 1989
"Fe-ONE" Experimental Compact Transmitting Antenna	Richard Q. Marris G2BZQ	46	Jan 1989
Front Panel Memory Bank Switching for the TS-940S	Stuart A. Fox G3VVS	26	June 1989
Go Anywhere Slim Jim Antenna for 430MHz	Tony Martin G4XBY	34	Oct 1989
Kitchen Konstruktion No. 9	Richard Q. Marris G2BZQ	33	Jan 1989
Kitchen Konstruktion No. 10	Richard Q. Marris G2BZQ	51	Feb 1989
Kitchen Konstruktion No. 11	Richard Q. Marris G2BZQ	38	Apr 1989
Low Battery Alarm	Basil Spencer G4NYM	31	Sept 1989
Modifying the Realistic DX100 Communications Receiver	Alan Mills G1CAQ	20	Apr 1989
NiCad Battery Protector	Ian Hickman	34	Mar 1989
Re-creating John Scott-Taggart's ST-300 of 1932	Robert A. Wilson	36	July 1989
Repeater Time Out Alarm	Gus Montgomery G0OATI	18	Dec 1989
RF Operated Relay	Paul Benton G8SVE	52	Feb 1989
Sturdy 50MHz Dipole	Steve Nicholls G0JFM	34	Sept 1989
Surface Mount Devices and the Amateur Part 3	W. Mooney G3VZU	46	Oct 1989
Two-tone Oscillator Part 1	Roger Alban GW3SPA	24	Apr 1989
Two-tone Oscillator Part 2	Roger Alban GW3SPA	24	May 1989

Feature

A Future Lunar Radio Beacon and Transponder	Pat Gowen G3IOR	40	Dec 1989
All About Lamps	J.D. Harris	42	Mar 1989
All About Lamps Part 2	J.D. Harris	36	Apr 1989
Amateur Radio in Spain	Greg Baker	48	Feb 1989
Antenna Clinic Special	F.C. Judd G2BCX	30	June 1989
Batteries not included	Peter Rouse GU1DKD	16	Dec 1989
British ATV Crowd Invade Dayton	Andy Emmerson G8PTH & Trevor Brown G8CJS	36	Feb 1989
Crops and Coils Part 5	George Pickworth	48	Jan 1989
Crops and Coils Part 6	George Pickworth	23	Feb 1989
Development of Radar in the Netherlands before World War II	D.W. Rollema PA0SE	34	June 1989
Devious Deeds in the Wireless Business	Stan Crabtree	44	Jan 1989
Dyfed-Powys Police Asking for Your Help		20	Sept 1989
Ever Thought of Trying a VHF Contest?	Neill Taylor G4HLX	22	June 1989
Expedition to OV00	Steve Bryan G1SGB	20	Jan 1989
G2BCX Antenna Clinic Session 1	F.C. Judd G2BCX	36	Jan 1989
G2BCX Antenna Clinic Session 2	F.C. Judd G2BCX	54	Feb 1989
G2BCX Antenna Clinic Session 3	F.C. Judd G2BCX	32	Mar 1989
G2BCX Antenna Clinic Session 4	F.C. Judd G2BCX	24	Apr 1989
G2BCX Antenna Clinic Session 5	F.C. Judd G2BCX	28	May 1989
G2BCX Antenna Clinic Session 7	F.C. Judd G2BCX	31	July 1989
G2BCX Antenna Clinic Session 8	F.C. Judd G2BCX	36	Sept 1989
G2BCX Antenna Clinic Session 9	F.C. Judd G2BCX	37	Oct 1989
G2BCX Antenna Clinic Session 10	F.C. Judd G2BCX	44	Dec 1989
Grounding for the Shack	John Brown G4UBB	22	Mar 1989
Hilarious Ham Radio	D.V. Pritchard	42	Nov 1989
Indirect Conversion	Chris Charles	18	Oct 21 1989
Packet Radio Update Part 1	Roger J. Cooke G3LDI	25	Mar 1989
Packet Radio Update Part 2	Roger J. Cooke G3LDI	26	Apr 1989
Packet Radio Update Part 3	Roger J. Cooke G3LDI	52	May 1989
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Packet Radio Update Part 5	Roger J. Cooke G3LDI	29	Sept 1989
Packet Radio Update Part 6	Roger J. Cooke G3LDI	21	Oct 1989
Packet Radio Update Part 7	Roger J. Cooke G3LDI	23	Dec 1989
Practically Yours	Glen Ross G8MWR	27	Feb 1989
Practically Yours	Glen Ross G8MWR	48	Apr 1989
Practically Yours	Glen Ross G8MWR	20	Jun 1989
Practically Yours	Glen Ross G8MWR	41	Sept 1989
Practically Yours	Glen Ross G8MWR	36	Oct 1989
PW 144MHz QRP Contest Results 1989	Neill Taylor G4HLX	31	Oct 1989
PW 144MHz QRP Contest Rules	Neill Taylor G4HLX	22	June 1989
Q-Code Musings	Stan Crabtree G3OXC	40	Sept 1989
Ratlies	G4LFM	74	Nov 1989
Talking Point - What is Happening to Our Society	Geoff Arnold G3GSR	20	May 1989
The Balloon Goes Up! Ground to Air			
Wireless in 1899	Chas E. Miller	23	Sept 1989
The Making of the PW/SWM Radio Information Cassette	LiveWire	41	Nov 1989
The Simple Contact	Michael John York G1BKI	21	Mar 1989
The Worlds Largest Amateur Convention, Dayton USA	David Jardine G0FDV	31	Aug 1989
They Said We Couldn't Do It... But We Did!	GB2EC	34	July 1989
Two Years of the Friedrichshafen Amateur Radio Show	Roger Hall G4TNT	30	Nov 1989
Valved Communications Receivers - The DST100 (Part 2)	Chas E. Miller	23	Jan 1989
Valved Communications Receivers -			

The Collins 75A-2	Chas. E. Miller	37	May 1989
Wireless Goes To War - The First Time	Tim Wander	34	May 1989
Wireless in 1928 Part 1	John D. Heys G3BDQ	48	Mar 1989
Wireless in 1928 Part 2	John D. Heys G3BDQ	46	Apr 1989

Theory

All About Variable Capacitors	Sean Lineham E17CV	39	Aug 1989
Designing Passive Attenuator Networks	S. Niewiadomski	52	Nov 1989
Enhancement of HF Signals by Polarisation Control Part 1	B. Sykes G2HCG	26	Nov 1989
Enhancement of HF Signals by Polarisation Control Part 2	B. Sykes G2HCG	36	Dec 1989
Introduction to Digital Communications	J. Huggins G0DZX	44	Feb 1989
Motorola's One Chip Radio	Brian Dance	22	Nov 1989
On the Line to CAIRO Part 1	Dr Peter Best G8CQH	28	Jul 1989
On the Line to CAIRO Part 2	Dr Peter Best G8CQH	34	Aug 1989
Phase Locked Loop for the Measurement of Adjacent Channel Noise	Martin Popple	41	Oct 1989
Reading & Understanding Circuit Diagrams Part 10	R.F. Fautley G3ASG	28	Jan 1989
Reading & Understanding Circuit Diagrams Part 11	R.F. Fautley G3ASG	28	Feb 1989
Reading & Understanding Circuit Diagrams Part 12	R.F. Fautley G3ASG	46	Mar 1989
Reading & Understanding Circuit Diagrams Part 13	R.F. Fautley G3ASG	30	Apr 1989
Reading & Understanding Circuit Diagrams Part 14	R.F. Fautley G3ASG	42	June 1989
Reading & Understanding Circuit Diagrams Part 15	R.F. Fautley G3ASG	43	July 1989
Reading & Understanding Circuit Diagrams Part 16	R.F. Fautley G3ASG	40	Aug 1989
Reading & Understanding Circuit Diagrams Part 17	R.F. Fautley G3ASG	26	Sept 1989
Reading & Understanding Circuit Diagrams Part 18	R.F. Fautley G3ASG	24	Oct 1989
Reading & Understanding Circuit Diagrams Part 19	R.F. Fautley G3ASG	46	Nov 1989
Reading & Understanding Circuit Diagrams Part 20	R.F. Fautley G3ASG	30	Dec 1989
Simplified Filter Design Routine	Ben Sullivan	28	Apr 1989
Some Directional Antennas for the HF Bands	Malcolm Kirk	18	June 1989
Surface Mount Devices and the Amateur Part 1	W. Mooney G3VZU	22	Aug 1989
Surface Mount Devices and the Amateur Part 2	W. Mooney G3VZU	42	Sept 1989
Two-tone Oscillator Part 1	Roger Alban GW3SPA	22	Apr 1989

PW Reviews

Alinco DJ-100E 144MHz hand-held Transceiver	Mike Richards G4WNC	23	Dec 1989
Azden PCS-6000 144MHz FM Tcvr & Airband RX	Mike Richards G4WNC	37	Nov 1989
Cushcraft 40-2CD 2-element Yagi for 7MHz	Ron Stone GW3YDX	40	June 1989
ERA BP34 Communications Filter	Rev G.C. Dobbs G3RJV	46	Sept 1989
Icom IC-3210 Dual-band Receiver	Chris Lorek G4HCL	28	Mar 1989
Kanga "Cheriton" 80/20m Receiver Kit	Colin Turner G3VTT	39	Oct 1989
Kenwood TS-790E Tri-bander	Ken Michaelson G3RDG	50	May 1989
Lake Electronics DTR3 3.5MHz CW Trcv Kit	Mike Richards G4WNC	18	Sept 1989
Navico AMR1000S 144MHz FM Mobile TX	Mike Richards G4WNC	26	Aug 1989
Standard C5200ED VHF/UHF Transceiver	Mike Richards G4WNC	32	Feb 1989
Team TRX-404 CB Transceiver	Richard Ayley G6AKG	31	May 1989
The Amp Supply Co LK500-ZC HF Linear	Ken Michaelson G3RDG	33	Apr 1989
The Ten-Tec Paragon 585 HF Transceiver	Ken Michaelson G3RDG	18	July 1989

Free Gifts

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New Books

Bookshelf - Novice Antenna Notebook	Doug DeMaw W1FB	17	July 1989
Bookshelf - The Radar War	David Pritchard	17	July 1989

On The Air

Amateur Satellites	Pat Gowen G3IOR	60	Sept 1989
Amateur Satellites	Pat Gowen G3IOR	56	Aug 1989
Amateur Satellites	Pat Gowen G3IOR	61	Oct 1989
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ATV	Andy Emmerson G8PTH	67	July 1989
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ATV	Andy Emmerson G8PTH	68	Oct 1989
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Broadcast Round-Up	Peter Shore	67	Apr 1989
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On The HF Bands	Paul Essery GW3KFE	53	Sept 1989
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RTTY	Mike Richards G4WNC	55	Aug 1989
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VHF Up	David Butler G4ASR	48	Aug 1989
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Swap Spot		33	Aug 1989
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Write On		14	Jan 1989
Write On		10	Oct 1989
Write On		12	Apr 1989
Write On		12	Aug 1989
Write On		12	Aug 1989
Write On		12	July 1989
Write On		12	June 1989
Write On		12	Mar 1989
Write On		12	May 1989
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