

1974

Article Index

AC LINE		Bi-square antenna	61 June	AUTOPATCH	
Line monitor	39 Jan	Six shooter array	62 June	Touchtone pad	73 Jan
ALLOCATIONS		Multiband ground plane	63 June	BFO'S	
US allocations	3 Jan	Mod quad	65 June	BFO circuit	127 Jan
New allocations	13 July	Phased array	49 July	External BFO	90 Mar
CB channels	81 July	Antenna tuner	55 June	CB	
AMPLIFIERS - RF		3 wire dipole	113 Oct	6M xcvr from CB rig	61 Mar
Audio preamplifier	125 Jan	Apartment antenna	121 Oct	Amateur glossery for CB'ers	74 Apr
RF preamplifier	78 June	Dipole tuning	20 Nov	Channel assignments	81 July
RF preamplifier	79 June	Wind proof 20m beam	67 Nov	CLOCKS	
4-1000 A linear	17 July	Double stub matching	73 Nov	Heathkit digital clock:	50 Feb
Grounded cathode linears	67 Aug	Attic antenna	142 Nov	Seven segment read out	95 Feb
Optimum loading	114 Oct	Rhombics	100 Dec	Jazz up your clock	58 May
ANTENNAS - VHF		ATV		Digital stop watch	100 Aug
TR-22 antennas	105 Jan	Video tape recorders	43 Jan	Variable clock	141 Oct
Newtronics CGT-144	43 May	Pixeverter	65 May	CLUBS	
Long squared quad	27 June	Balun	6 Sept	Club suggestions	85 Sept
Impedance matching	37 June	Sync gen for CCTV	115 Oct	Constitution and bylaws	37 Oct
Quad antenna feed line	52 Sept	AUDIO		Wet net	45 Oct
Removable mobile ants	55 Oct	Audio osc	25 Jan	COMMERCIAL MODIFICATIONS	
2m waterpipe ants	69 Oct	Phase splitter	124 Jan	Galaxy V tubes	36 Oct
2m mobile ant	77 Oct	Audio filter	124 Jan	NCX-5 tubes	119 Oct
ANTENNAS - UHF		Audio bandpass filter	125 Jan	Galaxy jacks	106 Nov
Testing the 432'er	77 Feb	Audio preamplifier	125 Jan	SB-144 amp keyer	142 Nov
ANTENNAS - LOWBAND		Audio signal gen	125 Jan	CODE	
\$1000.00 antenna	77 Jan	Freq divider	126 Jan	Code tapes offered	3 Jan
20m loop	89 Jan	Hi-imp preamp	127 Jan	Pop 73 code courses	19 Jan
15 and 20 m vertical	37 Feb	Hi-imp preamp	128 Jan	CPO	93 Jan
Poor man's quad	17 June	Compressor	177 Jan	CW monitor	177 Jan
Ant load indicator	33 June	100 MW modulator	177 Jan	Code generator	77 Mar
Impedance matching	37 June	Audio amp	25 Feb	CPO	81 July
Antenna coupler	45 June	Variable Q audio filter	54 Feb		
Ground system for 160	51 June	Simple audio preamp	69 Feb		
New baluns	59 June	Audio amp	100 Feb		
Double zepp	61 June	Clipper preamp	100 Feb		
Collinear array	61 June	Mike amp/tone gen	45 Mar		
		Pot repairs	56 Mar		
		25 W mod	90 Mar		
		Line op audio amp	34 Apr		
		Logrithmic amp	34 Apr		
		Audio compressors	21 May		
		Select-o-jet	114 Sept		
		High output mike	99 Oct		
		Audio osc	141 Oct		

COMPRESSORS

Compressor	177 Jan
Clipper preamp	100 Feb
Simple audio preamp	69 Feb
Adding dB's	21 May
Clipper/preamp	82 July
RF speech clipper	61 Sept

CONTROL

Timer	124 Jan
Control circuit	124 Jan
Telephone control	41 Feb
Blown fuse indicator	57 Feb
Long duration timer	101 Feb
DC relay control	101 Feb

CONVERTERS

10 m tuner	57 Jan
Fax converter	63 Jan
Low band conv	35 Apr
2 m SSB	55 Apr
Oscar converter	53 May
Public service band con	78 Dec

CORRECTIONS

3000 V dc supply July	134 Oct
Mark/space demod July	142 Nov

COUNTERS

Decimal counter	47 Jan
Leading zero sup	107 Jan
Counter input circuit	125 Jan
Seven segment readout	95 Feb
More on K20AW	49 Mar
Programmable counter	101 Aug
K20AW counter update	26 Nov
5 V counter supply	36 Nov

CRYSTAL OSCILLATORS

2 freq osc	124 Jan
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CRYSTALS

Xtal osc	127 Jan
VXO	128 Jan
Injection osc	177 Jan
2m xmitter	102 Feb
Curing key chirps	51 Sept

CW

Whistle up a QSO	55 Jan
CPO	93 Jan
Audio filter	124 Jan
Audio bandpass filter	125 Jan
CW monitor	177 Jan
Variable Q audio filter	54 Feb
Ten-Tec modules	60 Feb
Transister Keying circuit	90 Feb
Audio filter	81 Mar
Wireless CW monitor	84 July
CW tracking filter	49 Aug
Moskey, pt I	19 Sept
Curing key chirps	51 Sept
Moskey, Pt. II	89 Oct.
Moskey, Pt. III	97 Nov

DIGITAL CIRCUITS

Heathkit digital clock	50 Feb
Wind direction indicator	40 Nov
SWR computer, pt I	80 Nov
Which input first	142 Nov
SWR computer, Pt. II	86 Dec

DIODES

Diode checker	126 Jan
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DX NEWS

German novice training	117 Jan
LXpedition	43 Sept
4U1ITU	73 Sept
Profile W5RU	121 Sept
Ham befeater	130 Oct
Gung ho DXers	135 Oct
Gurbux Singh wedding	136 Oct
Win a big contest	37 Nov
C31 or bust	39 Dec
Computer DX chasing	104 Dec

FAX

Fax converter	63 Jan
Converter	29 Apr
WX satellite on SSTV	79 Sept

FCC

Rule making outdated?	23 Jan
Hearing	2 Mar
Custom logs	57 Mar
Regulations	98 Mar
Rules	87 Apr
Restructuring	3 July
New freq allocations	13 July
RM-2382 (logs)	4 Sept
20092 special call signs	4 Sept
20111 comm. sta	139 Sept
20112 auto cont of rep	140 Sept
20113 cross banding rep	143 Sept
20118 No. CB linears	3 Oct
20119 pt 15 to 49.9 MHz	3 Oct
20120 More CB channels	3 Oct
Boondoggling	6 Oct
FCC as seen by . . .	20 Oct
Commissioner Lee speaks	2 Dec

FILTERS

Active filters	41 Jan
Audio filter	124 Jan

Audio bandpass filter	125 Jan
Mechanical filter	127 Jan
Variable Q audio filter	54 Feb
Audio filter for CW	81 Mar
Audio filter	89 Mar
CW tracking filter	49 Aug
Select-o-ject	114 Sept
Low pass filter	102 Oct
Speech filter	98 Dec

FM

ID circuit	29 Jan
Touchtone pad	73 Jan
TR-22 antennas	105 Jan
Auto TT dialer	111 Jan
Timer	124 Jan
VFO for TR-22	125 Jan
Scanner	126 Jan
S-meter	127 Jan
VXO	128 Jan
2m xmitter	102 Feb
Cavities	17 Mar
Netting motorola units	85 Mar
GE xcvs	95 Mar
Autostart	21 Apr
New breed on 2 m	25 Apr
Scanning xcvr	67 Apr
RCA tuning hint	77 Apr
Tone gen	79 Apr
WR6AAA	93 Apr
Rep atlas of known universe	98 Apr
Heath HW-202	35 May
IC rf stages	47 May
Squelch circuit	78 June
Synthesizer pt I	31 Oct
Selective calling	51 Oct
FMers you've met	61 Oct
FM newcomer	64 Oct
Motorola metering	65 Oct
2m waterpipe ants	69 Oct
Motorola model nos	74 Oct
Adjusting deviation	75 Oct
WR6ABM gets call	86 Oct
Synthesizer, pt II	44 Nov
Beep, beep you're high	108 Nov
Simplex solvable?	65 Dec

FREQUENCY ALLOCATIONS

US allocations	3 Jan
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GADGETS

Delayed light turnoff	31 Apr
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Station Identifier

\$75



The CWID-50 provides automatic ID for repeater stations in perfect Morse code. Has factory-programmed IC memory. Brochure describes CWID-50 and CWID rack models.

control signal co 5964 W. COLUMBIA PLACE DENVER, COLORADO 80227

HAMFESTS		Low range Ohmmeter	80 July	Severe weather warning	27 Sept			
Hamfest hints	20 Jan	Universal ps	65 Aug	Questions, questions	51 Sept			
HISTORY		SSTV scan converter	73 Aug	Class lecture	67 Sept			
New regs (1938)	34 Feb	ID timer	95 Aug	Finding breakdown voltage	76 Sept			
Radio waves frighten thousands	38 Dec	Digital stopwatch	100 Aug	Nostalgia	93 Sept			
HUMOR		Programmable counter	101 Aug	Tabus	97 Sept			
Sexton's laws	25 Mar	Moskey, pt I	19 Sept	It happened in Mexico	127 Sept			
Truly great ham	75 Mar	WX satellite on SSTV	79 Sept	Nano farad	30 Oct			
New breed on 2 m	25 Apr	Making it small	98 Sept	Money = future for HR	42 Oct			
Funny article, sorta	51 Apr	Select-o-ject	114 Sept	Hold that rig	85 Oct			
Operating from a sauna	63 Apr	2m synthesizer	31 Oct	Learn a foreign language	109 Oct			
Amateur glossery for CB'ers	74 Apr	Selective calling	51 Oct	Extension cord ratings	117 Oct			
Finding room for the rig	27 May	Moskey, pt II	89 Oct	Emergency ferrite beads	42 Nov			
Catching the 2 m streaker	67 May	Sync gen for CCTV	113 Oct	187,000 phone patches	124 Nov			
Poor man's quad	17 June	Pulse gen	141 Oct	Parts for nothing	36 Dec			
Mono reproducer	57 Sept	K2OAW counter update	26 Nov	Wind indicator	41 Dec			
FCC as seen by	20 Oct	Synthesizer, pt II	44 Nov	Bargaining at hamfests	96 Dec			
Don't overlook XYL	50 Oct	SWR computer, pt I	80 Nov	Don's magic carpet	115 Dec			
Bench job	104 Oct	Moskey, pt III	97 Nov	MOBILE				
My ham's old shack	123 Oct	Aug scan conv update	105 Nov	How to go mobile	101 Jan			
Murphy's law	136 Oct	Beep, beep you're high	108 Nov	CD ignition system	17 May			
Roger's cartoon	55 Nov	Logic circuit keyer	53 Dec	Finding room for the rig	27 May			
Experiment in terror	66 Nov	SWR computer pt II	86 Dec	Boat interference suppression	31 May			
IDENTIFIERS		IRS EDITORIALS			Mobile alarm	39 May		
ID circuits	29 Jan	3 Jan	2 Apr	2 June	Reducing mobile noise	41 May		
INTEGRATED CIRCUIT CONSTRUCTION PROJECTS		3 Feb	2 May	2 July	Burglar alarm	45 May		
Audio osc	25 Jan	102 Mar	KEYERS			Mobile security	59 May	
ID circuit	29 Jan	Whistle up a QSO			55 Jan	Removable ants	55 Oct	
Fax converter	63 Jan	Transister keying circuit			90 Feb	2m antenna	77 Oct	
CPO	93 Jan	Tape recorder keyer			34 Apr	Headlight reminder	141 Oct	
Timer	124 Jan	Moskey, pt I			19 Sept	MODULATORS		
Counter input circuit	125 Jan	Moskey, pt II			89 Oct	25 W	90 Mar	
Scanner	126 Jan	Moskey, pt III			97 Nov	Diode ring mod	34 Apr	
Freq divider	126 Jan	Logic circuit keyer			53 Dec	MORSE CODE		
Conductivity checker	128 Jan	KITS						
SSTV monitor	20 Feb	Speedup kits			54 Mar	Code tapes offered	3 Jan	
Audio amp	25 Feb	LOGIC CIRCUITS						
IC SWL receiver	71 Feb	Decimal counter			47 Jan	Pop 73 code course	19 Jan	
Transistor keying circuit	90 Feb	Digital design			83 Jan	Code generator	77 Mar	
Seven segment readout	95 Feb	Seven segment readout			95 Feb	NEW PRODUCTS		
Constant current sources	29 Mar	Logic probe			31 Apr	Hal morse keyboard	16 Feb	
Mike amp/tone gen	45 Mar	Basics			85 Aug	Spectrum Int filter	17 Feb	
Macro ICology	67 Mar	Fail safe switching			97 Aug	Motorola rectifier book	17 Feb	
Code generator	77 Mar	Dual edge detector			99 Aug	DX QSL guide	17 Feb	
FM autostart	21 Apr	Resynchronizer			99 Aug	K Ent prescaler	17 Feb	
Fax converter	29 Apr	RC clock gen			99 Aug	Rectifier comp MPR	17 Feb	
Scanning xcvr	67 Apr	Edge detector			101 Aug	Alpha tone encoder	17 Feb	
Tone gen	79 Apr	Logic probe			6 Dec	Heath kit digital clock	50 Feb	
Dual tone decoder	33 May	Keyer			53 Dec	Ten-Tec modules	60 Mar	
TT decoder	34 May	Logic probe			76 Dec	Cepco II decoder	12 Mar	
Phase shifter	33 May	MATH						
Load switcher	33 May	RC calculations			31 Mar	Ramko distrib amp	12 Mar	
Tone decoder	35 May	Slide rule rules			72 Aug	Motorola 1024-bit RAM	13 Mar	
Pulse gen	35 May	MISC						
Osc doubler	35 May	RF toroids			58 Mar	Panasonic clamp meter	13 Mar	
2 m rf stages	47 May	Insulator rf properties			62 Apr	Bird digital rf wattmeter	13 Mar	
RF preamplifier	79 June	Switching osc			78 June	Motorola IC data book	13 Mar	
Freq gen	33 July	Diagrams			73 July	Motorola IC xtal osc	13 Mar	
AFSK gen	37 July	Carrier current rig			85 July	73 cassette theory course	7 Apr	
Ten minute timer	47 July							
					Courier mobile mike			7 Apr
					TRW 1 GHz xsistor			7 Apr
					Turner noise canc mike			8 Apr
					Control sig keyer module			8 Apr
					Antenna spec coax			8 Apr
					Kirlan photo kit			8 Apr
					Electronic dev rect			8 Apr
					Pacificom 2 m HT			8 Apr

Signetics timer IC	8 Apr
McGraw Hill memory book	8 Apr
Heath weather station	8 May
Heath thermometer	8 May
Heath ultrasonic cleaner	8 May
Heath AA-2005 amp	8 May
TRW Schottky sheet	8 May
Alpha two tone decoder	8 May
Yaesu FR-101S rx	8 May
Amperex tuning diodes	8 May
Continental spec breadboards	8 May
Sencore FET multi-meter	9 May
Tucker catalog	9 May
Motorola power Xsistors	9 May
RK scanner module	9 May
Motorola dual gate mosfets	9 May
Alden recorder	9 May
Heath HW-202	37 May
Newtronics CGT-1214	43 May
ATV's pixerverter	65 May
Icom IC-230	14 June
TRW amplifier	14 June
Radio shack time kube	15 June
Motorola McMos data book	15 June
GE sensor	15 June
Motorola high power plastic	15 June
Wahl soldering iron	16 June
Motorola RAM	16 June
Millen power supplies	16 June
Dycomm super D	9 July
CDR ham II	9 July
Keeps-it kit	9 July
Wilson 2 m HT	90 July
Midland 13-500 2 m	61 Aug
JM communication 6100	112 Aug
Valor probe	112 Aug
VHF engineering repeater	112 Aug
Leasametric catalog	112 Aug
Motorola rectifiers	112 Aug
Partridge xtal set	112 Aug
Palomar R-X noise bridge	113 Aug
RGS tone gen	113 Aug
Turner catalog	113 Aug
TRW UHF xstr	113 Aug
GE optical sensor	113 Aug
TRW 7.5 v module	113 Aug
Greene's tools	113 Aug
Telonix BC xmtr	113 Aug
Amperex c/mos logic ic's	114 Aug
R-Ohm function gens	114 Aug
Stahler drills	114 Aug
Genave GTX-600	10 Sept
Hallicrafters FPM-300	10 Sept
Palomar R-X noise bridge	11 Sept
Cushcraft ringo ranger	136 Sept
Cubex quad	136 Sept
Emergency beacon 144 jr	16 Oct
RGS tone gen	17 Oct
Heath HWA-202-1 ps	41 Oct
VHF engineering HT-144B	126 Oct
Tucker corvus clock	133 Oct
Welt/safe lock light pod	134 Oct
Heath 1975 catalog	135 Oct
Fairchild CCD-201	5 Nov
Regency HRT-2	116 Nov
Heathkit GR-78	109 Dec

NOVICE

German novice training	117 Jan
Teaching novices	75 Nov
Perils of novicehood	58 Dec

OCEANUS

Calls	106 Apr
CPO	93 Jan
2 freq osc	124 Jan
VFO for TR-22	125 Jan
Xtal osc	127 Jan
2m xmitter	102 Feb
Mike amp/tone gen	45 Mar
FET pierce osc	89 Mar
Diode osc limiter	89 Mar
Two injection freq osc	90 Mar

PHOTOGRAPHY

Conductivity checker	128 Jan
Flash tubes	109 Sept

POWER SUPPLIES

Variable PS	87 Jan
Constant current sources	29 Mar
CRT PS	53 Mar
Free xformers	53 Mar
Line VM	54 Mar
Capacitor Covers	56 Mar
Screen reg for ART-13	79 Mar
Power xfrmr ratings	80 Mar
Protection circuit	90 Mar
Free TT batteries	27 July
3000 V DC	69 July
Correction	134 Oct
230 V ac supply	64 Aug
Universal PS	65 Aug
120 V variac on 220 V	78 Sept
5 V PS	43 Oct
5 V counter supply	36 Nov
Emergency xfrmr	94 Nov
Nicad care	24 Dec

PRINTED CIRCUITS

Better circuit board	52 Feb
The agitable	41 Sept

QRP

Ten-Tec modules	60 Feb
10m xmitter	63 July
6m am xmtr	59 Sept

RECEIVERS

Pot repair	56 Mar
Early communications rx	69 Mar
BFO	90 Mar
IC swl receiver	71 Feb
Noise limiter	100 Feb
2 m receiver	100 Feb
DC isolation	55 July
IF stage	82 July
AGC circuit	82 July
AM or FM clipper	84 July
R-390 A	39 Aug
R-392	47 Aug
Bishop noise limiter	71 Sept
Tuned diode VHF rx	81 Dec

REPEATER CIRCUITS

ID circuit	29 Jan
Timer	124 Jan
Cavities	17 Mar
Delayed VOX	17 Apr
FM autostart	21 Apr
Dual tone decoder	33 May
TT decoder	34 May
Tone decoder	35 May
ID timer	95 Aug
Selective calling	51 Oct
AM vs FM inputs	67 Oct
Beep, beep you're high	108 Nov

RTTY

RTTY commercial stations	105 Mar
Mark/space demod	77 June
Mark/space correction	142 Nov
AFSK gen	37 July

SATELLITES

Copying WX pix	11 Mar
Oscar converter	53 May
WX satellite on SSTV	79 Sept
Oscar 7 with one rx	98 Oct
Modify WB8DQT circuit	48 Dec

SCANNERS

Scanner	126 Jan
Control panel for scanner	67 Apr

SCHEMATIC OF THE MONTH

Regency HR-6	74 June
Wilson 2 m HT	90 July
Midland 13-500	104 Aug
Regency HRT-2	116 Nov

S-METERS

S-meter	127 Jan
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SSTV

SSTV monitor	20 Feb
Coax hybrid ring	11 Mar
Independent Sideband	11 Mar
Program contest winner	12 Mar
Slow to fast conv	4 Apr
Slow scan gen	4 Apr
Instant SSTV programs	106 Apr
SSTV glossary	4 Apr
Scan converter	73 Aug
WX satellite on SSTV	79 Sept
Vertical trigger	124 Oct
Fairchild CCD-201	5 Nov
Visual coupler	4 Nov
Aug scan conv update	105 Nov
SSTV tape secrets	73 Dec

SURPLUS

Screen reg for ART-13	79 Mar
AM-1187/TRC on 450 MHz	91 Mar
Motorola FM	85 Mar
GE xcvs	95 Mar
RCA FM tuning hint	77 Apr

Saving xistors	31 July
R-390 A	39 Aug
R-392	47 Aug
Motorola metering	65 Oct
Motorola model nos	74 Oct

SYNTHESIZERS

For HT-220, pt I	31 Oct
Murphy's law	136 Oct
For HT-220, pt II	44 Nov

TAPES

Code tapes offered	3 Jan
Pop 73 code courses	19 Jan
Auto TT dialer	111 Jan
Viva cassettes	3 Sept
SSTV tape secrets	73 Dec

TAPE RECORDING

Whistle up a QSO	55 Jan
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TECHNICAL AID GROUP

9 Jan

TELEPHONE

Telephone control	41 Feb
Telephone ring relay	31 Apr

TEST EQUIPMENT

Audio osc	25 Jan
Line monitor	39 Jan
Leading zero sup	107 Jan
Cap measuring	110 Jan
Phase splitter	124 Jan
Audio preamplifier	125 Jan
Audio signal gen	125 Jan
Diode checker	126 Jan
Freq divider	126 Jan
Conductivity checker	128 Jan
FS meter	128 Jan
CW monitor	177 Jan
Injection osc	177 Jan
Voltage tester	177 Jan
Sweep gen	32 Feb
Blown fuse indicator	57 Feb
Testing the 432'er	77 Feb
2 m receiver	100 Feb
Capacitance meter	101 Feb
2m xmitter r	102 Feb
Signal injector/tracer	102 Feb
RF detector probe	102 Feb
X-Band	33 Mar
More on K20AW	49 Mar
Line VM	54 Mar
Xtal checker	59 Mar
Increase GD range	59 Mar
Diode checker	89 Mar
High imp probe	89 Mar
Sawtooth gen	90 Mar
2 m sig gen	93 Mar
Logic probe	31 Apr
Phase shifter	33 May
2m attenuator	50 May
SWR bridge	55 June
Freq gen	33 July
Low range Ohmmeter	80 July
Pulse gen	80 July
Capacitance decade	81 July

Continuity checker	84 July
Signal injector	84 July
SWR meter	17 Aug
Directional Wattmeter	17 Aug
Accessory for GDO	35 Aug
Audible Voltmeter	55 Aug
Heath 10-103 improvement	55 Sept
IC tester	95 Sept
Infinite RF atten	107 Sept
WWV on ac-dc sets	116 Oct
RF sniffer	64 Nov
SWR computer, pt I	80 Nov
Basic bridge	95 Nov
Line hot side finder	142 Nov
Logic probe	6 Dec
Meters/meter faces	70 Dec
Logic probe	76 Dec
SWR computer, pt II	86 Dec

TIMERS

Timer	124 Jan
Long duration timer	101 Feb
Delayed light turn off	31 Apr
10 minute timer	47 July
ID timer	95 Aug

TOUCHTONE

Touchtone pad	73 Jan
Auto TT dialer	111 Jan
Free TT batteries	27 July
Trimline	37 Aug
Selective calling	51 Oct
Tone - how to touch	71 Nov
TT freaks	144 Nov
TT pad enclosures	114 Dec

TOUCHTONE FOLLIES

15 Jan	14 Mar
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TOWERS

EZ way tower	103 Sept
Aid for pulling sections	142 Nov
Finding height	84 Dec
Power pole, El cheapo tower	89 Dec

TRAVEL

Norwegian licenses	110 Mar
Carnets	106 Apr

TV

Video tape recorders	43 Jan
SSTV monitor	20 Feb

TVI

TVI fixit	128 Oct
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UHF

432 and 1296 MHz osc	35 Jan
Testing the 432'er	77 Feb
Noise limiter	100 Feb
X-band	33 Mar
AM-1187/TRC on 450 MHz	91 Mar

VFO's

VFO for TR-22	125 Jan
VXO	128 Jan

VIDEO TAPE RECORDERS

Video tape recorders	43 Jan
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VISITING MANUFACTURERS

Visiting Regency	91 Jan
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WIRING

Wiring harnesses	97 Jan
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1296 MHz

432 and 1296 MHz osc	35 Jan
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432 MHz

432 and 1296 MHz osc	35 Jan
Testing the 432'er	77 Feb
AM-1187/TRC	91 Mar
432'er - DC isolation	55 July
FET's on 450	27 Aug
432'er - 1.65 MHz i-f	79 Oct

2M

TR-22 antennas	105 Jan
VFO for TR-22	125 Jan
Scanner	126 Jan
S-meter	127 Jan
VXO	128 Jan
2 m receiver	100 Feb
2m xmitter	102 Feb
Cavities	17 Mar
Drake R4B as sig gen	93 Mar
SSB converter	55 Apr
Scanning scvr	67 Apr
Tone gen	79 Apr
Heath HW-202	35 May
IC rf stages	47 May
Impr gladding 25	61 May
Catching the streaker	67 May
Trim line	37 Aug
Midland 13-500	61 Aug
2m waterpipe ants	69 Oct
Mobile antenna	77 Oct
Synthesizer, pt I	31 Oct
Synthesizer, pt II	44 Nov

6M

6m xcvr	61 Mar
6m DXing	49 Sept
AM xmitter	59 Sept
Xtal osc	24 Oct
Preamp	111 Oct
Hot front end	88 Nov

10M

10m tuner	57 Jan
QRP xmitter	63 July

15 M

15 and 20m vertical	37 Feb
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20M

20 m loop	89 Jan
15 and 20m vertical	37 Feb
Ten-Tac modules	60 Feb

40 M

Ten-Tec modules	60 Feb
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80 M

My favorite band	69 Sept
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