

Index to Articles in 1964

<p>AMATEUR RADIO POLITICS</p> <p>Our Man in Washington Apr 18 What Every Amateur Should Know Apr 72 Where Have Our Bands Gone? May 16 Now Hear This, Fellow Amateur May 54 Big Brother, and How He Grew May 64 ARRL's Motives: A Closer Look July 68 CB Rules Tightened Sept 73 Our Man in Washington: An Appraisal of Amateur Radio's Position Nov 76 Return to the Art and... Nov 82</p> <p>ANTENNAS, TRANSMISSION LINES, AND TOWERS</p> <p>Well Grounded Jan 43 Inter-Element Conductivity Jan 51 Two Element Phased Array Jan 60 More on the Magic TR Switch Feb 28 Practical Ground Systems Feb 52 ZL Special for 40 Feb 64 Transmission Lines Mar 44 Waveguide Simplified Apr 52 Vertical J Apr 82 Matching the VHF Antenna May 12 Quad - Quad for 2 May 20 More on the Vertical J May 62 BH-2 (2 Meter Antenna) July 22 Low Cost VHF Yagis From TV Ant. July 44 Another Antenna of Note Sept 40 How to Raise a Beam Sept 72 The "TV" Antenna Oct 10 VHF Log Periodic Antenna Nov 6 Tunable Antenna for 432 Nov 16 Sterba Curtain for 2 Nov 30 Hi-Q 80 - 40 Meter Vertical Nov 34 2 Meter Mobile Special Nov 38 The Easy Way Nov 68 14 Element Yagi for 432 Dec 16 Bamboo Birdcage Dec 22 That Elusive SWR Dec 32 Short Folded Dipoles Dec 34</p> <p>AUDIO</p> <p>Loudspeakers and Enclosures Feb 32 Speech Compressor Mar 28 Class D Amp. (doesn't work) May 26 Really High Gain Jun 33 Mikes, Handsets, Phones, Spkrs Jun 74 Mobile Phone Patch Nov 40 Repair That Mike Dec 82</p> <p>CIRCUITS</p> <p>Neutralization Feb 68 New Bias Circuit Mar 20 Electronic Filter Capacitor Mar 53 Single Tube Oscillator - Multiplier May 34 Miniature Multiband Tuner Dec 18</p> <p>COMMERCIAL EQUIPMENT MODIFICATION</p> <p>Improved Keying for the HT-40 Jan 86 Heath Warrior HA-10 Feb 12 Swan Speaker Feb 82 Swan AGC + AF/RF Gain Controls Mar 36 More Gain for the SX-140 Mar 55 Calibrator for NCX-3 - - - May 42 - - Also see July P. 14 PTT for HT-37 May 46 Vanguard Transmitter and Conv. Aug 64 Gonset on CW Aug 92 6DQ5 Notes Sept 32 SB-10 and ARC-? Sept 68 Improving the Heath Q-Multiplier Oct 43 Heath HP-23 for Swan 100 Oct 47 Heath Toner to Six Oct 51 KWM-2 Voltage Regulator Nov 33 KWM-2 Operating Notes Nov 44 Drake 2B - More Frequencies Nov 45 Incremental Tuning for the NCX-3 Nov 72 Heath HO-10 with Drake 2B Nov 75 SB-33 with MP-10 Nov 79 Sixer to the N'th Dec 26 Two'er Talk Dec 28 SSB with 6N2 Dec 68</p> <p>COMPONENTS</p> <p>Making a High Value AC Cap Feb 23 Heat Dissipating Tube Shields Feb 24 Crystal Holder Tip Dec 72</p>	<p>CONTROL CIRCUITRY</p> <p>More on the Magic TR Switch Feb 28 Push Button Control Apr 48 Symmetrical Latching Relays July 62 Simple Automatic Failsafe Power Supply Control Nov 70</p> <p>CONSTRUCTION TECHNIQUES</p> <p>Polaroid Print Coater Protects Panels of Electronic Equipment Feb 35 Quietening Fans Feb 39 Lacing Cables Mar 32 Modularization Mar 46</p> <p>CONVERTERS</p> <p>Let's Keep it Simple Jan 36 2 Meter Transistor Converter Mar 18</p> <p>CW</p> <p>The MON-KEY Apr 28 MON-KEY Correction May 85 Another Keyer Aug 76</p> <p>FEATURES</p> <p>Europe on \$2000 per Day Jan 64/Mar 75 Rig Hr is Homebrew, OM Mar 57 Getting Publicity Mar 60 Aldabra Mar 64 San Marino Mar 95 W6AEE Award Mar 95 Amateur Radio Emergency Service May 68 H. S. T. May 80 Hobbyist? Write About It May 83 DX Titans Meet June 82 Moonbounce July 13 VHF Buyer's Guide July 78 Alaska Earthquake July 84 Moonbouncing News Aug 72 Now That You Ask Me Sept 29 Save Ten Meters? Sept 66 African Hams Sept 83 Long Sky Rubbish Wire Sept 84 Bagpipes and the Phone Man Sept 87 A Ham in the White House Oct 6 City Life (ugh) Oct 62 Kentucky DXpedition Nov 90 When Good Losers Get Together Dec 46</p> <p>FICTION</p> <p>Color The Grommet Gone Nov 12</p> <p>HAM TV</p> <p>Ham TV the Easy Way Mar 35 High Level Modulation for Ham TV Dec 30</p> <p>INTERFERENCE - TVI</p> <p>Effective Filtering Jan 58 Auto Gauge Noise Elimination Jan 78 TVI May 76</p> <p>MISC. TECHNICAL</p> <p>Maser - The Beginning Jan 52 Radar Jun 125 RF Hazard Sept 70 Weather Detector Dec 14</p> <p>MOBILE, PORTABLE, AND EMERGENCY</p> <p>Mobile Power Supply Mar 31 Medium Power Mobile Rig Mar 40 12 Volts From 6 May 32 Nickel - Cadmium Batteries June 14 2 Meter Mobile Special Nov 38 Mobile Phone Patch Nov 40 6 Meter QRP Station Nov 54 Silicon Diode Noise Limiter Nov 60 Mobile Receiver Dec 6</p> <p>MODULATION</p> <p>Modulation Measurement the Simple Way Mar 16 More About SSB, DSB, AM, etc. May 36 2Meter DSB Adapter Dec 40</p> <p>MODULATORS AND AMPLIFIERS</p> <p>Speech Compressor Mar 28</p>	<p>Gardner Modulator May 50 Really High Gain June 33 Varicap Phase Modulator Sept 57</p> <p>NEW PRODUCTS</p> <p>Lawrence Modification Kit Jan 77 Amperex DX245 Jan 80 T. I. Varactors Jan 81 Miller Coils Jan 81 Clegg Low Pass Filter Jan 82 PC Boards Jan 84 BC Tuner Feb 80 Swan TCU Feb 82 Linear Systems Inverter Feb 82 May 72 Heat Dissipating Nuvistor Socket Feb 82 Waters Knobs Mar 27 Dyna - Mike Mar 27 Hi - Par Halo Transformer Apr 31 Galaxy III Apr 31 Lafayette 6 + 2 VFO Apr 32 Mini - Products Antennas Apr 32 Viking DX Recorder and Pen Set May 72 Waters Compreamp May 72 VHF Associates 432 Tripler May 72 Squalo June 86 New - Tronics Coveya June 86 BREI Capacitor Aug 71 Hammarlund HQ - 170A - VHF Aug 80 Heath SB-200 Aug 80 Heath SB-400 Aug 80 Hammarlund HQ-66 Sept 80 Webster Mobile Coils Sept 80 CDR TR-44 Oct 75 Hammarlund HQ - 145A Oct 88 Lafayette HA - 350 Oct 88 Quement Dipmeter Dec 60 Topaz Inverter Dec 61 Hi - Q Insulators Dec 88</p> <p>OPERATING</p> <p>Amateur Radio Operating - FCC Version Nov 62</p> <p>POWER SUPPLIES</p> <p>Mobile Power Supply Mar 31 Voltage Regulation Apr 60 12 Volts From 6 May 32 Nickel - Cadmium Batteries June 14 Dynamotor Set June 30 Smaltz for Semiconductors Jun 35/July 51 Surplus Circuit Breakers June 39 Regulated Power Supplies June 76 Regulated Power Supply for LM June 83 Minute KW Power Supply Aug 40 Friendly Silicon Rectifiers Sept 58 Power for Surplus DC Motors Sept 76 28 Volt Supply Dec 12 Autotransformers Dec 96</p> <p>RECEIVERS and RECEIVING</p> <p>Transistorized Receiver Jan 18 How Good is Your Receiver? Jan 55 Receiver Deceiver Jan 30 Simplified Receiver Design Feb 14 BC Tuner Feb 30 Unusual Receiver Circuits Feb 40 Transistor BFO Feb 63 Neutralization Feb 68 Transistor 6 Meter Receiver Mar 22 Superhet or Regen? Mar 58 1296 Preamp Apr 14 New Ones From Old Ones Apr 58 ARB June 16 Adding SSB to the ARR-7 June 18 ARR - 15 June 24 R-44 / ARR-5 June 26 432 Mc Preamp June 66 BC-348 June 88 The 432'er Receiver July 8 VHF Tunable Oscillators July 36 2 Meter Transistor Receiver Aug 14 Squelch for Transistor Receiver Aug 28 Signal Helper Aug 44 Communications Receiver Aug 46 The Beast for 10 Aug 84 SJS Sept 34/Oct 26/ Nov 46 Simple Squelch Sept 53 432 Mc Preamp Oct 18 All About Noise Figure Oct 66 Silicon Diode Noise Limiter Nov 60 HO-2080SSBMR-10T Dec 6 Evaluating Receivers Dec 52</p>
---	---	---

RTTY

Going Rtty Part 1	Jan 39
Transistorized RTTY Converter	Mar 6
Transistorized AFSK	Nov 36
Going RTTY Part 2	Dec 24

SSB

2 Meter SSB Rig	Feb 6
6M SSB - AM Rig from T51A/ARQ8	Jun 6
2M SSB - AM Rig from T28/APT1	June 52
2 Band Transistor Transmitter	Aug 6
SB10 and ARC2	Sept 68
How to Design Phase Shift Nets	Nov 66
Mobile Receiver	Dec 6
Cheap Pair of Socks	Dec 10
SSB With 6N2	Dec 68

SURPLUS CONVERSIONS

6M AM-SSB Rig from T51A/ARQ8	June 6
ARB Receiver	June 16
Adding SSB to the ARR-7	June 18
ARC TV-10 and TV-10A	June 20
ARR-15	June 24
R-44/ARR-5	June 26
Dynamotor Set	June 30
IP-69/ALA-2 Panadapter	June 40
Telechrome 1462-A1 on 220	June 47
2M AM-SSB Rig from T-28/APT-1	June 52
CFN 46ADT to 432 Preamp	June 66
Mikes, Handsets, Phones, Spkrs	June 74
Regulated Supply for LM Meter	June 83
TS-118A/AP Wattmeter (see Jul 14)	June 87
BC-348	June 88
Souping up TCS Audio	Sept 55
SB10 and ARC-2	Sept 68
Power for DC Motors	Sept 76
APX-6 to 1296 Mc	Oct 76

TECHNICAL

Simplified Receiver Design	Feb 14
Look At Test Equipment	Feb 42
Neutralization	Feb 68
Voltage Regulation	Apr 60
Regulated Power Supplies	June 76
Noise Figure	Oct 66
Phase Shift Networks	Nov 66
Bandpass Coupler Design	Dec 102

TEST EQUIPMENT

Long Look at Test Equipment	Feb 42
Rx Audio Probe	Feb 66
Tracer	Apr 23
Armstrong Sweeper (correc. Aug 12)	Apr 26
IF Spotter	Apr 34
Frequency Standard	May 61
TS-118A/AP Wattmeter	
Correction July 14)	June 87
2300 Mc Wavemeter	July 26
T - Pad	July 58
Beacon for 144, 432, 1296	Aug 22
Diode Tester	Aug 92
Fancy 100 Kc Calibrator	Oct 48
Blow Up That Meter	Oct 56
Precision Audio Attenuator	Nov 22
Electrolytic Saver	Nov 31
Unit Power Oscillators	Dec 78

TEST REPORTS

Heath HW-22	Jan 74
Hallicrafters SR-160	Apr 24
Heath SB300	Aug 66
Heath SB400	Sept 64
Gonset Sidewinder	Sept 82
P & H 2-150	Oct 30
NCL-2000	Oct 92
Lawrence Modification Kit	Nov 74
Amplidyne 621	Nov 80
Heath Application Series	Nov 84
Clegg Venus	Dec 64
Heath Tunnel Dipper	Dec 84

TRANSCEIVERS

Transceiving Hi-Level Mixer	Mar 48
220 Mc Transverter from TV-10	June 20
Portable 6 M Station (correc Nov 73)	Sept 16
Heath Tener to Six	Oct 51
APX 6 to 1296	Oct 76
6 Meter QRP Station	Nov 54

TRANSISTORS

HF Receiver	Jan 18
Let's Keep it Simple	Jan 36
BC Tuner	Feb 30
2 Watt 7 Mc Transmitter	Feb 36
BFO	Feb 62
RTTY Converter	Mar 14
2 Meter Converter	Mar 18
6 Meter Receiver	Mar 22
Superhet or Regen?	Mar 58
Armstrong Sweeper	Apr 26
60 Watts on 75	Apr 42
Class D Amplifier (doesn't work)	May 26
2 Band SSB Transmitter	Aug 6
2 Meter Receiver	Aug 14
Stripping Transistor Radios	Aug 20
Simple Beacon for 144, 432, 1296	Aug 22
Squelch	Aug 28
Those Fragile Transistors	Aug 29
AM-FM VFO	Aug 30
40 Meter Final Amp	Aug 34
Signal Helper	Aug 44
Communications Receiver	Aug 46
Simplified Transistor Biasing	Aug 54
Transistors for Ham Use	Aug 62
Another Keyer	Aug 76
Important Transistor Design Hints	Aug 82
The Beast for 10	Aug 84
6 M Station (correc Nov 73)	Sept 16
Varicap Phase Modulator	Sept 56
Varactor Tripler to 432	Oct 52
VFO for SSB	Nov 10
Transistor AFSK	Nov 36
UHF Circuitry	Nov 48

TRANSMITTERS and TRANSMITTING

2 Watt 40 M Transistor Rig	Feb 36
Neutralization	Feb 68
Little Punch (2 Meters)	Feb 6
Medium Power Mobile Rig	Mar 40
Naughty Pi-Net (correc. June 84)	Apr 38
60 Watts on 75	Apr 42
Novice Rig (correc. July 14)	May 78
2 Band Transistor SSB Rig	Aug 6
A Transistor Final Amp for 40	Aug 34
Transistor Transmitters	Aug 82
Linears For Two'er	Sept 6
Linears For Six'er	Sept 11
6DQ5 Notes	Sept 32

Tuned Line Tank Circuits	Sept 42
Varicap Phase Modulator	Sept 56
Simple 160 Meter Rig	Oct 13
432'er Transmitter	Oct 32
Varactor Tripler to 432 Mc.	Oct 52
6 Meter VFO Rig	Nov 24
Cheap Pair of Socks	Dec 10
2 Meter DSB Adapter	Dec 40
RK 715-B on 6 Meters	Dec 58

VFO

6 Meter VFO the Easy Way	July 42
Transistor AM-FM VFO	Aug 30
Transistor SSB VFO	Nov 10

VHF - UHF (T=Transmitters C=Converters, Receivers, and Preamps)

(T) 2 Meter SSB Rig	Feb 6
(T) Little Punch (2M Transmitter)	Mar 6
(C) 2M Transistor Converter	Mar 18
(C) 6M Transistor Receiver	Mar 22
Los Angeles 6M Repeater	Apr 6
(C) 1296 Mc RF Amp	Apr 14
(C) Under the Noise	Apr 20
Waveguide Simplified	Apr 52
Vertical J Antenna	Apr 82
(C) Flying Noise Lock System	May 6
Matching VHF Antennas	May 12
The Quad-Quad for 2	May 20
More on the Vertical J	May 62
(T) 6M AM-SSB Rig from T51A/ARQ8	Jun 6
(T) 220 Transverter from ARC TV 10	June 20
(T) Telechrome 1462-A1 on 220	Jun 47
(T) 2 Meter AM-SSB from T28/APT	Jun 52
(C) 416 - B and 8058's in the	June 66
CFN-46ADT on 432 Mc.	June 66
(C) 432'er Receiver	July 8
The BH-2 2 Meter Antenna	July 22
2300 Mc Wavemeter	July 26
(C) VHF Tunable Oscillators	July 36
(T) 6 Meter VFO The Easy Way	July 42
Low Cost VHF Yagis from TV	July 44
Antennas	July 44
VHF Buyers Guide	July 78
(C) 2 Meter Transistor Rcvr	Aug 14
Beacon for 144, 432, and 1296	Aug 22
(T) Two'er Linear	Sept 6
(T) Six'er Linear	Sept 11
Portable 6M Station (correc Nov 73)	Sept 16
Tuned Line Tank Circuits	Sept 42
Getting on 6	Sept 50
(C) Low Noise 432 Preamp	Oct 18
(T) 432'er Transmitter	Oct 32
Heath Tener to Six	Oct 51
(T) Varactor Tripler to 432	Oct 52
(T) Crystal Refrigerator	Oct 64
(C) All About Noise Figure	Oct 66
The APX-6 to 1296 Mc	Oct 76
Log Periodic Antenna	Nov 6
Tunable Antenna for 432	Nov 16
432'er Station Assembly	Nov 18
(T) 6 Meter VFO Transmitter	Nov 24
Sterba Curtain Antenna for 2	Nov 30
2 Meter Mobile Antenna Special	Nov 38
(T) UHF Transistor Circuitry	Nov 48
6 Meter QRP Station	Nov 54
14 El. Yagi for 432	Dec 16
(T) 2 Meter DSB Adapter	Dec 40
(T) RK 715B on 6 Meters	Dec 58
Unit Power Oscillators	Dec 78

EAST COAST ELECTRONICS

- Plate Xformer 117 VAC 60 cyc output 400-0-400 @ 200 ma. Open frame, new. 12 lbs. \$4.00
- 60 mc video if amplifier. 7-6AK5, 1-6J6. Complete. \$4.50
- 3 tube video amplifier (Includes 2 diodes.) \$1.00
- 6146 pullout—good \$1.25
- 2E26 new \$1.75
- 4-125A pullout—good \$6.00
- 5894A pullout—good \$6.50
- Minimum order \$2.50

Include sufficient postage

EAST COAST ELECTRONICS

123 St. Boniface Rd. Buffalo 25, New York
Phone TX 5-4691

FREE Catalog

**OF THE WORLD'S FINEST
ELECTRONIC GOV'T
SURPLUS BARGAINS**



HUNDREDS OF TOP QUALITY

ITEMS—Receivers, Transmitters, Microphones, Inverters, Power Supplies, Meters, Phones, Antennas, Indicators, Filters, Transformers, Amplifiers, Headsets, Converters, Control Boxes, Dynamotors, Test Equipment, Motors, Blowers, Cable, Keyers, Chokes, Handsets, Switches, etc., etc. Send for Free Catalog—Dept. 73.

FAIR RADIO SALES
2133 ELIDA RD. • Box 1105 • LIMA, OHIO