

The Amateur Crossword Puzzler

H. Ward Silver, NOAX

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“Got Your Ears On?”

The most complex piece of radio equipment in the shack is usually the receiver. This puzzle is about those invaluable devices that can pick out a signal comprising all of a micro-nanowatt and distinguish it from one a million million times stronger, just a few kHz away. Yowsers! Here's to our hearers.

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	58			59					60				61	
62						63					64	65		
66			67						68					

Across

1. Measure of signal strength (compound word)
6. Group that hates antennas (abbr.)
8. Hams advance this aspect of radio
11. Shield that mounts on back of an SO-239
12. Spurious gain control system response
14. Receiver section that varies the receive frequency
16. Add "I" to get an apology
17. Numeric performance metric (abbr.)
18. The ability to reject unwanted signals
20. Liquid that flows in antenna supports
22. Connector that joins three cables
24. Prefix of home to Macchu Picchu
25. Backlight for LCD (abbr.)
26. Doesn't work (abbr.)
28. Touch tones (abbr.)
29. System that turns off audio between signals
33. Type of signal
35. Not relevant (abbr.)
36. DX ..!
37. Video system
39. Listen
41. What a hot receiver does well
44. Historic effort or DXpedition
46. Excessive signal
50. Above audio (abbr.)
51. Transformers that use transmission lines (abbr.)
52. Where rigs are built (abbr.)
53. Defunct manufacturer of impedance bridges

(abbr.)

54. Reference oscillator for slaved oscillators (abbr.)
55. Energy from the sun (abbr.)
56. Sharpen one's skills
58. Spurious signals in a superheterodyne receiver
60. Raw material refined to get pure metal
61. Primary gain stages in a superhet
62. Circuit to lock on to a signal's frequency
63. Small or unimpressive
64. Label for volume control
66. Execute or act
67. Use two VFOs to operate
68. Misbehaving equipment

Down

1. Small adjustment to avoid interference
2. English satellite abbreviation
3. Ultimate limit to signal reception
4. Identifying mark or code (abbr.)
5. Thanks! (CW abbr.)
6. Maker of test equipment now computers (abbr.)
7. Reduces signal strength
8. Insects or skyhooks
9. Complex complement to I_m
10. Tuned circuit to capture a single frequency

12. Increases incoming signal strength
13. Cutoff receiver during transmit
15. Russian prefix
16. Antenna made from a hole in metal
17. Olympian prefix
19. Radio system that guides aircraft landings
21. Receiver system that controls gain
23. These get in the way of good operating
27. Material with a 0.3V forward drop
28. Stage that recovers modulation from an AM signal
30. Check in (Q signal)
31. Three most common passive components (abbr.)
32. Famous receiver or ham store
33. These combine signals to change frequency
34. Provides input signal to 33 Down
38. Complex power (abbr.)
39. Millions of nanoseconds (abbr.)
40. Stellar explosion
41. CW chuckle
42. Receiver fine

tuning control

43. What hams
chew

45. Used to be a
micro-microfarad
(abbr.)

46. Frequency
difference between
transmit and
receive

47. Signals
returned from a

reflection

48. Faithfully
reproduce the
input signal

49. A receiver that
slowly changes
frequency

54. Abbreviation
for microphone

55. Conductors
that make
transistors

57. Homonym for
60 Across

58. Oscillator
required to receive
SSB

59. Numeric
signal
manipulation

62. Sales pitch

65. Material used
in inductor cores

1	S	2	U	3	N	4	I	5	T	6	H	7	O	8	A	9	R	10	T
11	H	12	O	13	O	14	D	15	P	16	U	17	P	18	M	19	U	20	R
21	I	22	I	23	S	24	I	25	R	26	S	27	U	28	A	29	T	30	A
31	F	32	S	33	E	34	L	35	E	36	T	37	V	38	G	39	E	40	P
41	T	42	E	43	E	44	O	45	A	46	L	47	N	48	G	49	S	50	G
51	G	52	D	53	T	54	M	55	F	56	S	57	Q	58	U	59	E	60	C
61	M	62	O	63	D	64	E	65	P	66	L	67	N	68	A	69	C	70	R
71	I	72	S	73	V	74	M	75	O	76	N	77	I	78	T	79	O	80	R
81	X	82	H	83	E	84	A	85	R	86	S	87	O	88	O	89	R	90	A
91	E	92	P	93	I	94	C	95	I	96	O	97	V	98	E	99	R	100	L
101	R	102	F	103	T	104	L	105	T	106	A	107	C	108	I	109	G	110	R
111	S	112	M	113	O	114	S	115	F	116	H	117	O	118	N	119	E	120	I
121	R	122	F	123	R	124	I	125	T	126	A	127	C	128	I	129	A	130	F
131	B	132	I	133	R	134	D	135	I	136	S	137	O	138	R	139	E	140	R
141	A	142	F	143	C	144	S	145	M	146	E	147	R	148	E	149	A	150	F
151	D	152	O	153	S	154	P	155	L	156	I	157	T	158	S	159	C	160	Y