

Component List
W8ZR H.F. Receiver Multicontroller
[See Parts & Supplier List for detailed component specifications]
(rev. 12 October 2003)

A. Main Circuit Board

C1-C10, C12-C17, C19, C23, C26-C30, C39,C40	qty 25	0.1 μ F/50V ceramic disc
C11, C18	qty 2	22 μ F/25V electrolytic
C21	qty 1	2.2 μ F/25V tantalum or electrolytic
C22	qty 1	1000 pF/50V ceramic disc
C25	qty 1	3.3 μ F/25V tantalum or electrolytic
C20, C24	qty 2	.01 μ F/50V ceramic disc
C31, C32	qty 2	.01 μ F/250VAC AC line rated
C33, C36	qty 2	47 pF mica
C34, C35	qty 1	100 pF mica
C37, C38	qty 2	4700 μ F/35V electrolytic
D1, D2, D3, D4	qty 4	BAT46 Schottky
D7-D22	qty 16	1N4148 or 1N914A signal
D5, D6	qty 2	BAT41 Schottky
DB1	qty 1	Rectron DB103 Bridge Rectifier (1A/200PIV)
F1	qty 1	1/4A 3AG fuse
H1	qty 1 qty 7	Header, SIP 0.100", 7 pins x 3 rows shorting jumpers
J1, J4	qty 2	Connector, Molex 8-pin, .156" side-entry
J2	qty 1	Connector, Molex 4-pin, .156" side-entry

J3, J5	qty 2	Connector, Molex 12-pin, .156" side-entry
J6	qty 1	Header, Molex 3-pin .156", top-entry
K1 –K11	qty 11	P&B/Tyco V23105, DPDT 12VDC/960 ohm coil
L1, L3	qty 2	8t #22 enameled wire, air wound on 1/4-20 thread
L2	qty 1	9t #22 enameled wire, air wound on 1/4-20 thread
Q1	qty 1	2N4401, 2N2222 or equiv. NPN gen purpose transistor
R1, R3-R9	qty 8	51 Ω , 1/2 W
R18	qty 1	56 Ω , 1/2 W
R10	qty 1	100 Ω , 1/4W
R11, R15	qty 1	1 K Ω , 1/4W
R2	qty 1	12 K Ω , 1/4W
R12	qty 1	15 K Ω , 1/4W
R13, R17	qty 2	2200 Ω , 1/4W
R19- R26	qty 8	10 K Ω , 1/4W
R14	qty 1	100K Ω , 1/4W
R16	qty 1	110 Ω , 1W
R27, R28	qty 2	150 Ω , 3W
T1	qty 1	Stancor SW-520 or DSW-520, 10VCT/0.6A dual sec
U1,U2	qty 2	MAX497CPE integrated circuit
U3	qty 1	GALI-6 integrated circuit
U4-U7	qty 4	40107 integrated circuit
U8	qty 1	MC7805 +5V voltage regulator
U9	qty 1	MC7905 -5V voltage regulator

--	qty 2	Heatsink, TO-220 w/hardware
----	-------	-----------------------------

B. Front Panel Circuit Board

D100	qty 1	1N4005, 1N4007 or equiv.
DS100, DS108	qty 2	LED-Yellow, size T1-3/4
DS109	qty 1	LED-Red, size T1-3/4
DS101-DS107	qty 7	LED-Green, size T1-3/4
J100, J101	qty 2	Header, Molex 12-pin straight
R100-R109	qty 10	1 K Ω , 1/4W
S100	qty 1	SPDT AC switch, molded plastic
S101-S109	qty 9	SPDT miniature toggle switch
S110	qty 1	DPDT miniature toggle switch

C. Rear Panel Circuit Board

C200	qty 1	0.1 μ F/50V ceramic disc
C201-C208	qty 8	1000 pF/1000V ceramic disc
J200	qty 1	Header, Molex .100" 4-pin straight
J202	qty 1	Header, Molex .156 4-pin straight
J208, J217	qty 2	Header, Molex .156 8-pin straight
J201, J204-J207 J209-J212	qty 9	BNC PCB vert. mount jack
J203, J213-J216, J218-J221	qty 9	RCA-type phono jack, rear chassis mount
R200	qty 1	1 K Ω , 1/4W

D. Low Frequency/AM Broadcast Filter Circuit Board

C300	qty 1	1800 pF polystyrene
C301	qty 1	0.015 μ F polypropylene
C302, C306	qty 2	1200 pF polystyrene
C303, C304	qty 2	1500 pF polystyrene
C305	qty 1	100 pF polystyrene
C307	qty 1	3900 pF polystyrene
C308	qty 1	390 pF polystyrene
C309	qty 1	2200 pF polystyrene
J300	qty 1	Socket, .100" pin strip 4-pin
L300	qty 1	3.9 μ H molded inductor
L301, L302	qty 2	4.7 μ H molded inductor

E. Chassis Components

--	qty 1	AC Connector, chassis mount
--	qty 1	Connector, Molex.156 3-pin, crimp terminals, w/lock
--	qty 10	LED Mtg Clip LED
Enclosure	qty 1	Buckeye Shapeform E7 series, 1/2 DIN
Pwr cord	qty 1	Three conductor, NEMA 5-15P plug, 7'6
Wire	qty 1 qty 1 qty 1	6" white, 20AWG, stranded, 600V, qty 1 3" green, 20AWG, stranded, 600V, qty 1 6" black, 20 AWG, stranded, 600V, qty 1
Hardware	qty 2 qty 1 qty 2 qty 2	screw, 6-32x0.5in machine, stainless, phillips head solder lug, #6 lockwasher, internal, #6 nut, 6-32, stainless

Sleeving	qty 1	heat shrink, 1/8", 2 inches.
Ty-Wraps	qty 3	4 inch
Feet	qty 4	rubber, 3/8" square, adhesive-backed