

Bill of materials for SoftRock v6 , 40m/80m		
Tony, KB9YIG, 8/25/06		
Resistors	used where	quantity
10, 1/4W, 1%	R1, R7, R8, R9, R10	5
10k, 1/4W, 1%	R2, R3, R15	3
499, 1/4W, 1%	R4, R6	2
1.0k, 1/4W, 1%	R5, R13, R14, R16	4
4.99k, 1/4W, 1%	R11, R12	2
na	R17	not used
Capacitors	used where	quantity
10uF/16 VDC Electrolytic	C1, C2, C18	3
0.1uF, smt 1206	C3, C4, C8, C9, C10, C11, C16, C17, C19, C20, C24	11 spare provided in kit
100 pF ceramic, 5%	C5	1
not used with 40m/80m	C6	1 omit
22 pF ceramic, 5%	C7	1
0.047uF ceramic, 5%	C12, C13	2
220pF ceramic, 5%	C14, C15	2
820pF ceramic, 5%	C21, C23	2
330pF ceramic, 5%	C22	1
Inductors/transformers	used where	quantity
1.4uH, T30-2 core, 18T, #30 wire	L1	1
3.4uH, T30-2 core, 28T, #30 wire	L2	1
T30-2 core, primary winding 18T #30 wire, secondary windings: each 8T bifilar #30 wire	T1	1
Wire, AWG #30	for winding L1, L2 and T1	8 feet
ICs	used where	quantity
78L05, TO92 pack	U1	1
74HC74, SOIC14	U2, U3	2
FST3253, SOIC16	U4	1
OPA2228UA or LTC6241IC8 or MAX4489ASA, SO8	U5	1
Transistors	used where	quantity
2N3904, TO92	Q1	1
2N3906, TO92	Q2	1
Diodes	used where	quantity
1N4003	D1	1
Xtal	used where	quantity
28.224 MHz for 40m/80m operation	X1	1
Connectors	used where	quantity
three pin header. 0.1 inch centers	JP1	1
two pin header, 0.1 inch centers	JP2	1
jumper plug	on JP1 and JP2	2
PCB	used where	quantity
SR_v6.0 3 27	PCB	1
Hardware	used where	quantity
1/8in #4 nylon spacer	board mounting hardware, four corner mounting holes	4
#4 nylon washer		4
3/8in. 4-40 screw		4
4-40 hex nut		4
Cables		
3.5mm stereo audio cable	kit builder to supply	