

12.

Parts list

Capacitors

1pF	4 ceramic (SMD 0805)	C6,C7,C9,C10
3p3	1 ceramic	C2
5p6	1 ceramic	C12
6p8	1 ceramic	C3
10pF	1 ceramic	C33
12pF	3 ceramic	C5,C8,C11
1.8 - 22pF	1 trimming capacitor	CKT1 8-22pF
		C21
33pF	3 ceramic	C22,C23,C24
47pF	1 ceramic	C14
47pF	1 ceramic	C19 (used if
	not included in L6)	
150pF	1 ceramic	C13
2n2	1 foil WIMA	C25
4n7	1 foil WIMA	C37
10nF	1 ceramics	C35
10nF	2 foil WIMA	C26,C49
47nF	5 ceramic	C4,C30,C32,
		C36,C39
47nF	1 foil WIMA	C38
100nF	9 ceramic	C1,C15,C16,
		C17,C18,C34,
		C43,C44,C47
220nF	1 foil WIMA	C31
330nF	1 foil WIMA	C28
2M2/50V	1 radial electrolytic	C20
10M/50V	1 radial electrolytic	C45
47M/12V	2 radial electrolytic	C27,C29
100M/10V	1 radial electrolytic	C46
100M/15V	1 radial electrolytic	C40
1000M/15V	1 radial electrolytic	C48

Resistors and potentiometers

2R2	1 R20	
47R	1	R3
180R	1 R14	
120R	1 R10 (for LCD with back light)	
3k3	3 R8,R9,R11	
4k7	2 R17,R18	
10k	4 R5,R7,R16,R19	
22k	1 R4	
39k	1 R6 (39K - 56K see text.)	
47k	2 R12,R13	
50k/G pot	1 TP160, shaft 4mm P2	
100k/N pot	1 TP160, shaft 4mm P1	
100k	2 R1,R2	
100k trim	1 PIHER PT6VK100 P3 (setting of contrast of LCD display)	
180k	1 R15	

Transistors and diodes

BF981	1 Dual gate MOS FET T1
BC238	2 NPN universal TO92 T2,T3

Red LED	1 Any LED diode D1
1N4007	1 Rectifier diode 1A D2

Integrated circuits

MC3362	1 RX FM 2x MF IC1
LM386	2 LF amplifier IC2,IC6
89C2051	1 With program RX137141DIP4LCD IC3
SAA1057	1 PLL up to 160MHz IC4
LM7805	1 Stabiliser +5V IC5
SE567	1 Tone decoder IC7
LCD-DV-16100	Single line display LCD1

Coils

7MC455kHz	1 TOKO 455kHz/600µH L6
Choke 560nH-1 µH	2 axial, TLM2
0.1µH inductance	5 TOKO or 2.75 turns, see text L1, L2, L3, L4, L5

Other

X-TAL 10.245MHz	1 Quartz X2
X-TAL 4.000MHz	1 Quartz X1
F 455 kHz/30kHz	1 Ceramic filter F2
10.7MHz	1 Ceramic filter F1
Socket DIL8	1 low Pro IC2
Socket DIL18	1 low Pro IC4
Socket DIL20	1 low Pro IC3
BNC connector	1 Antenna connector F
Spacer	4 M3x5 mm
Nut M3	4 Fe/Cd
Con. SCD-016A	1 power supply socket 12V-2.5mm
Con. SCP-2009C	1 power supply plug 12V-2.5mm
CINCH SCJ-0363	1 GM Electronic, REP connector.
Switch DIP 4x	1 GM Electronic, DIP1 connector.
Push butn. P-B1720	2 GM electronic, display board TL1, TL2,
Push butn. P-B1720	2 GM electronic, main PCB TL1
Knob	2 GM electronic, for 4mm shaft for P1 and P2
Pin S1G11W	1 GM Electronic, to connect the base of the receiver to LCD display
Loudspeaker	1 Conrad Electronic
PCB1 DISPL	1 138 x 37mm
PCB2 M-BOARD	1 138 x 88mm