TRAVELLER Nr. 1

2mtr Sendeempfänger 25/2 Watt
mit eingebautem
4 Kanalsuchlaufempfänger

Bedienungsanleitung
mit Schaltplan und Teileliste

BEDIENUNGSANLEITUNG für

TRAVELLER Nr. 1

Links oben: Tonruftaste
Gedrückt strahlt der Sender den 1.750 Hz Ton ab bei einem Output von 20 Watt.

Kanalschalter: Das grüne Kontroll-Licht links unten neben dem Kanalschalter zeigt an, ob der eingeschaltete Empfangskanal mit Quarzen bestückt ist oder nicht.

Der Schalter SW vol: ist der Einschalter und Lautstärkenregler.

Der Schalter SQ/pull scan: ist der Rauschsperrenregler.
Wenn dieser herausgezogen wird und der Hebelschalter darüber auf Automatik gestellt wird, fängt der Scanner d. h. der Suchlauf an zu arbeiten und sucht die 4 Suchlaufkanäle nach einfallenden Signalen ab.

Wenn der Automatikschalter nach unten gedrückt wird, kann man mit diesem Schalter den Suchlauf unterbrechen und bei jedem Herunterdrücken des Schalters die Suchlaufkanäle separat einschalten.

Durch Eindrücken des Squelchschalters kann man mit dem Kanalschalter wieder die gewünschten Kanäle schalten.

Der rechte Schalter Rit dient zur Feineinstellung und wenn er herausgezogen wird, wird der Sender von 20 Watt auf kleine Leistung 2 Watt umgeschaltet. Zur Kontrolle schaltet sich dabei die S-Meterbeleuchtung von grün auf blau um.

Der Hebelschalter rechts oben mit der Bezeichnung: Wide – NAR – schaltet die Bandbreite von "weit" oder "breit" auf "schmal" um.

■ PARTS LIST OF CRYSTAL & SCAN

Circuit No.	Part No.	Description	Remarks
		CAPACITOR	
C1 ~C23	MCC1H270K	Ceramic 27PF ± 10 %	
C24~C27	MCC1H330K	Ceramic 33PF ± 10 %	
C28,C29	MCC1H222MF	Ceramic 1000PF ± 20 %	
C30,C31	MCC1H103ZF	Ceramic 0.01μF +80 %, -20 %	
C32	MCD16A470	Electrolytic 47μF 16 WV	
C33	MCQ1H473K	Mylar 0.047μF ± 10 %	
		RESISTOR	
R1,R2	MRK14VJ182	Carbon 1.8KΩ ± 5 %	
R3~R6	MRL14VJ222	Carbon 2.2KΩ ± 5 %	
R7	MRM2TJ820	Metal Film 82Ω ± 5 %	
		SEMICONDUCTOR/P.C.B.	
IC 1	MIC 001	IC SN7438N	
IC 2	MIC 002	IC SN7473N	
	UPB005T	PC Board	
		DIODE	
D1~D6	MDS0005	Diode 1N4448	
D7	MDS0005	Zener Diode BZ-050	
		COIL	
L1,L2	MLM102F	Ferri Inductance 1 mH	
		MISCELLANEOUS	
	MNS0002	Crystal Socket 12P	
	MNS0003	Crystal Scocket 4 P	
	MGH0003	Wrapping pin	

Circuit No.	Part No.	Description			Remarks
C61	MCC1H680JC	Ceramic	68P	± 5 %	
C62,C63	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C64	MCD16A101	Electrolytic	100μF	16 WV	
C65	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C66	MCC1H150JC	Ceramic	15P	± 5 %	
C67	MCC1H1ROCC	Ceramic	1 P	± 10 %	
C68,C69	MCC1H330JC	Ceramic	33P	± 5 %	
C70	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C71	MCC1H2ROCC	Ceramic	2 P	± 0.25 PF	
C72	MCC1H1ROCC	Ceramic	1 P	± 10 %	
C73,C74	MCC1H7ROCC	Ceramic	7 P	± 0.25 PF	
C75	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C76	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C77	MCC1H100DT	Ceramic	10P	± 0.5 PF	
C78	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C79	MCC1H7ROCC	Ceramic	7 P	± 0.25 PF	
C80	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C81	MCC1H221KB	Ceramic	220P	+100 %, -0 %	
C82	MCC1H331KB	Ceramic	330P	+100 %, -0 %	
C83	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C84	MCC1H330JC	Ceramic	33P	± 5 %	
C85	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C86	MCD16A100	Electrolytic	10μF	16 WV	
C87	MCD16A470	Electrolytic	47μF	16 WV	
C88	MCQ1H103K	Mylar	0.01μF	± 10 %	
C89	MCQ1H223K	Mylar	0.022μF	± 10 %	
C90	MCQ1H222K	Mylar	0.0022μF	± 10 %	
C91	MCQ1H223K	Mylar	0.022μF	± 10 %	
C92	MCQ1H102K	Mylar	0.001μF	± 10 %	
C93	MCD16A470	Electrolytic	47μF	16 WV	
C94	MCD16A100	Electrolytic	10μF	16 WV	
C95	MCQ1H393K	Mylar	0.039μF	± 10 %	
C96	MCC1H270K	Ceramic	27P	± 10 %	
C97	MCD16A100	Electrolytic	10μF	16 WV	
C98	MCQ1H393K	Mylar	0.039μF	± 10 %	
C99,C100	MCD16A4R7	Electrolytic	4.7μF	16 WV	
C101	MCD16A470	Electrolytic	47μF	16 WV	
C102	MCD16A330	Electrolytic	33μF	16 WV	
C103	MCD16A1RO	Electrolytic	1 μF	16 WV	
C104	MCD16A4R7	Electrolytic	4.7μF	16 WV	
C105	MCQ1H103K	Mylar	0.01μF	± 10 %	
C106,C107	MCD16A100	Electrolytic	10μF	16 WV	

■ PARTS LIST OF RX UNIT (UPB-003T)

Circuit No.	Part No.	Description			Remarks
		CAPACITOR			
C 1	MCC1H100DR	Ceramic	10P	± 0.5 PF	
C 2	MCC1H330JC	Ceramic	33P	± 5 %	
C 3	MCC1H7RODC	Ceramic	7P	± 0.5 PF	
C 4	MCC1H180JC	Ceramic	18P	± 5 %	
C 5	MCC1H5ROCC	Ceramic	5P	± 0.25 PF	
C 6	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C 7	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C 8	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C 9	MCK1H102	Feed through	1000PF	50 V	
C10	MCQ1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C11	MCQ1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C12	MCT2D6ROSI	Cylinder trimmer	6PF		
C13	MCT2D6ROSI	Cylinder trimmer	6PF		
C14	MCT2D6ROSI	Cylinder trimmer	6PF		
C15	MCC1H101JC	Ceramic	100P	± 5 %	
C16	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C17	MCC1H102KB	Ceramic	0.001μF	+100 %, -0 %	
C18	MCQ1H1032F	Ceramic	0.01μF	+80 %, -20 %	
C19	MCD16A470	Electrolytic	47μF	50 V	
C20	MCC1H101JC	Ceramic	100P	± 5 %	
C21	MCQ1H223K	Mylar	0.022μF	10 %	
C22	MCQ1H393K	Mylar	0.039μF	10 %	
C23	MCQ1H1032F	Ceramic	0.01μF	+80 %, -20 %	
C24,C25	MCQ1H223K	Mylar	0.022μF	± 10 %	
C26	MCD16A101	Electrolytic	100μF	16 WV	
C27,C28,C29	MCQ1H103K	Mylar	0.01μF	± 10 %	
C30	MCQ1H102K	Mylar	0.001μF	± 10 %	
C36	MCQ1H223K	Myler	0.022μF	± 10 %	
C37	MCQ1H103K	Mylar	0.01μF	± 10 %	
C38	MCC1H471KB	Ceramic	470P	+100 %, -0 %	
C39	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C40	MCQ1H393K	Mylar	0.039μF	± 10 %	
C41	MCQ1H223K	Mylar	0.022μF	± 10 %	
C42,C43	MCC1H221KB	Ceramic	220P	+100 %, -0 %	
C44	MCC1H470K	Ceramic	47P	± 10 %	
C45	MCQ1H472K	Mylar	0.0047μF	± 10 %	
C46	MCQ1H223K	Mylar	0.022μF	± 10 %	
C47	MCC1H221KB	Ceramic	220P	+100 %, -0 %	
C48	MCC1H681KB	Ceramic	680P	+100 %, -0 %	
C49	MCC1H221KB	Ceramic	220P	+100 %, -0 %	
C50	MCQ1H332K	Mylar	0.0033μF	± 10 %	
C51,C52	MCQ1H223K	Mylar	0.022μF	± 10 %	
C53	MCD16A4R7	Electrolytic	4.7μF	16 WV	
C54	MCQ1H153K	Mylar	0.015μF	± 10 %	
C55	MCQ1H223K	Mylar	0.022μF	± 10 %	
C56	MCD16A1RO	Electrolytic	1μF	16 WV	
C57	MCC1H103FZ	Ceramic	0.01μF	+80 %, -20 %	
C59	MCC1H471KB	Ceramic	470P	+100 %, -0 %	
C60	MCC1H820JC	Ceramic	82P	± 5 %	

▪ PARTS LIST OF TRAVELLER Nr. 1

Circuit No.	Part No.	Description			Remarks
		CAPACITOR			
C103	MCC1H103ZF	Ceramic	0.01μF	+80 %, -20 %	
		SEMICONDUCTOR			
D101	MDS-0007	Diode	GP-30B		
D103	MDL-0001	Diode	TLR-102		
D105	MDL-0001	Diode	TLR-102		
D107	MDL-0001	Diode	TLR-102		
D108	MDL-0002	Diode	TLG-102		

▪ PARTS LIST OF PA UNIT (UPB-001T)

		CAPACITOR			
C1	MCC1H103ZF	Ceramic	0.01μF	+80 %, -20 %	
C2	MCC1H473ZF	Ceramic	0.047μF	+80 %, -20 %	
C3	MCD50A100	Electrolytic	10μF	50 WV	
C4	MCC1H103ZF	Ceramic	0.01μF	+80 %, -20 %	
C5	MCC1H473ZF	Ceramic	0.047μF	+80 %, -20 %	
C6	MCD50A100	Electrolytic	10μF	50 WV	
C7	MCC1H390KC	Ceramic	39PF	±10 %	
C8	MCC1H222MB	Ceramic	0.0022μF	±20 %	
C9, C10	MCK1H152	Ceramic	0.001μF		
C11,C12,C13	MCK1H152	Ceramic	0.001μF		
CT1,CT2	MCT2B500MI	Mica trimmer	50PF		
CT3,CT4	MCT2B500MI	Mica trimmer	50PF		
CT5	MCT2B151MI	Mica trimmer	150PF		
CT6	MCT2B500MI	Mica trimmer	50PF		
		RESISTOR			
R1	MRK12TJ470	Carbon	47Ω	±5 % ½W	
R2	MRK12TJ181	Carbon	180Ω	±5 % ½W	
R3	MRK14VJ102	Carbon	1KΩ	±5 % ¼W	
		SEMICONDUCTOR			
Q1	MQC1971	2SC1971			
Q2	MQC1946	2SC1946			
Q3	MQD359	2SD359			
Q4	MQC711	2SC711			
		COIL			
L1	MLA-0003	VHF coil			
L2	MLA-0004	Choke coil			
L3	MLA-0006	VHF coil			
L4	MLA-0004	Choke coil			
L5	MLA-0009	VHF coil			
L6	MLA-0010	VHF coil			
L7	MLA-0005	Choke coil			
L8	MLA-0008	Choke coil			
	UPB-001T	PC board			

Circuit No.	Part No.	Description			Remarks
R22	MRD14VJ561	Carbon	560Ω	±5% ¼W	
R23	MRD14VJ472	Carbon	4.7KΩ	±5% ¼W	
R24	MRD14VJ680	Carbon	68Ω	±5% ¼W	
R25	MRD14VJ151	Carbon	150Ω	±5% ¼W	
R26	MRD14VJ331	Carbon	330Ω	±5% ¼W	
R27	MRD14VJ472	Carbon	4.7KΩ	±5% ¼W	
R28	MRD14VJ680	Carbon	68Ω	±5% ¼W	
R29	MRD14VJ151	Carbon	150Ω	±5% ¼W	
R30	MRD14VJ331	Carbon	330Ω	±5% ¼W	
R31	MRD14VJ472	Carbon	4.7KΩ	±5% ¼W	
R32	MRD14VJ220	Carbon	22Ω	±5% ¼W	
R33	MRD14VJ470	Carbon	47Ω	±5% ¼W	
R34	MRD14VJ560	Carbon	56Ω	±5% ¼W	
R35	MRD14VJ473	Carbon	47KΩ	±5% ¼W	
R36	MRD14VJ681	Carbon	680Ω	±5% ¼W	
R37	MRD14VJ101	Carbon	100Ω	±5% ¼W	
R38	MRD14VJ102	Carbon	1KΩ	±5% ¼W	
R39	MRD14VJ682	Carbon	6.8KΩ	±5% ¼W	
R40	MRD14VJ103	Carbon	10KΩ	±5% ¼W	
R41	MRD14VJ223	Carbon	22KΩ	±5% ¼W	
R42,R43	MRD14VJ103	Carbon	10KΩ	±5% ¼W	
R44	MRD14VJ472	Carbon	4.7KΩ	±5% ¼W	
R45	MRD14VJ332	Carbon	3.3KΩ	±5% ¼W	
R46	MRD14VJ223	Carbon	22KΩ	±5% ¼W	
R47	MRD14VJ472	Carbon	4.7KΩ	±5% ¼W	
R48	MRD14VJ152	Carbon	1.5KΩ	±5% ¼W	
R49	MRD14VJ471	Carbon	470Ω	±5% ¼W	
R50	MRD14VJ683	Carbon	68KΩ	±5% ¼W	
R51	MRM2TJ5R6	Metal Film	5.6Ω	±5% 2W	
R52	MRD14VJ471	Carbon	470Ω	±5% ¼W	
R53	MRD14VJ561	Carbon	560Ω	±5% ¼W	
R54	MRD14VJ102	Carbon	1KΩ	±5% ¼W	
R55	MRD14VJ223	Carbon	22KΩ	±5% ¼W	
R56	MRD14VJ222	Carbon	2.2KΩ	±5% ¼W	
R57	MRD14VJ123	Carbon	120KΩ	±5% ¼W	
R58,R59	MRD14VJ474	Carbon	470KΩ	±5% ¼W	
R60	MRD14VJ103	Carbon	10KΩ	±5% ¼W	
R61	MRD14VJ682	Carbon	6.8KΩ	±5% ¼W	
R62	MRD14VJ151	Carbon	150Ω	±5% ¼W	
R63	MRD14VJ393	Carbon	39KΩ	±5% ¼W	

Circuit No.	Part No.	Description			Remarks
C61	MCD16A100	Electrolytic	10μF	16 WV	
C62	MCD50A1RO	Electrolytic	1 μF	50 WV	
C63,C64	MCQ1H473K	Mylar	0.047μF	± 10 %	
C65	MCD50A1RO	Electrolytic	1 μF	50 WV	
C66	MCC1H103ZF	Ceramic	0.01μF	+ 80 %, - 20 %	
C67	MCQ1H223K	Mylar	0.022μF	± 10 %	
C68	MCD50A1RO	Electrolytic	1 μF	50 WV	
C69~C71	MCQ1H103K	Mylar	0.01μF	± 10 %	
C72	MCC1H102ZF	Ceramic	1000PF	+ 80 %, - 20 %	
C73	MCU16A4R7	Tantalum	4.7μF	16 WV	
C74	MCC1H102ZF	Ceramic	1000PF	+ 80 %, - 20 %	
C75	MCQ1H103K	Mylar	0.01μF	± 10 %	
C76	MCD16A100	Electrolytic	10μF	16 WV	
C77	MCC1H103ZF	Ceramic	0.01μF	+ 80 %, - 20 %	
C78	MCD16A470	Electrolytic	47μF	16 WV	
C79	MCC1H103ZF	Ceramic	0.01μF	+ 80 %, - 20 %	
C80	MCD16A100	Electrolytic	10μF	16 WV	
C81	MCC1H103ZF	Ceramic	0.01μF	+ 80 %, - 20 %	
C82,C83	MCQ1H332K	Mylar	3300PF	± 10 %	
C84	MCD16A330	Electrolytic	33μF	16 WV	
C85	MCQ1H153K	Mylar	0.015μF	± 10 %	
C86	MCD50A1RO	Electrolytic	1 μF	50 WV	
C87	MCD16A470	Electrolytic	47μF	16 WV	
C88	MCD16A100	Electrolytic	10μF	16 WV	
C89	MCQ1H333K	Mylar	0.033μF	± 10 %	
C90	MCD16A330	Electrolytic	33μF	16 WV	
C91	MCD16A101	Electrolytic	100μF	16 WV	
C92	MCQ1H102K	Mylar	1000PF	± 10 %	
C93	MCC1H331KB	Ceramic	330PF	± 10 %	
C94	MCQ1H472K	Mylar	4700PF	± 10 %	
C95	MCD16A330	Electrolytic	33μF	16 WV	
C96	MCQ1H104K	Mylar	0.1μF	± 10 %	
C97	MCD16A221	Electrolytic	220μF	16 WV	
TC1	MCT2B180CI	Ceramic trimmer	18PF		
TC2	MCT3B230CI	Ceramic trimmer	23PF		
		RESISTOR			
R1	MRD14VJ223	Carbon	22KΩ	± 5 % ¼W	
R2	MRD14VJ562	Carbon	5.6KΩ	± 5 % ¼W	
R3,R4	MRD14VJ102	Carbon	1 KΩ	± 5 % ¼W	
R5	MRD14VJ223	Carbon	22KΩ	± 5 % ¼W	
R6	MRD14VJ472	Carbon	4.7KΩ	± 5 % ¼W	
R7,R8	MRD14VJ221	Carbon	220Ω	± 5 % ¼W	
R9~R11	MRD14VJ470	Carbon	47Ω	± 5 % ¼W	
R12	MRD14VJ683	Carbon	68KΩ	± 5 % ¼W	
R13	MRD14VJ473	Carbon	47KΩ	± 5 % ¼W	
R14	MRD14VJ333	Carbon	33KΩ	± 5 % ¼W	
R16	MRD14VJ331	Carbon	330Ω	± 5 % ¼W	
R17	MRD14VJ221	Carbon	220Ω	± 5 % ¼W	
R18	MRD14VJ471	Carbon	470Ω	± 5 % ¼W	
R19	MRD14VJ272	Carbon	2.7KΩ	± 5 % ¼W	
R20,R21	MRD14VJ101	Carbon	100Ω	± 5 % ¼W	

▪ PARTS LIST OF FILTER UNIT (UPB-008T)

Circuit No.	Part No.	Description			Remarks
		CAPACITOR			
C1	MCC1H1ROD	Ceramic	1PF	± 0.5 PF	
C2	MCC1H222MD	Ceramic	0.002μF	± 20 %	
C3	MCC1H150JC	Ceramic	15PF	± 0.5 PF	
C4	MCC1H220JC	Ceramic	22PF	± 0.5 PF	
C5	MCC1H150JC	Ceramic	15PF	± 0.5 PF	
C6,C7	MCC1H102MD	Ceramic	0.001μF	± 20 PF	
C8	MCC1H103ZF	Ceramic	0.01μF	+80, -20 %	
C9	MCC1H7RODC	Ceramic	7PF	± 0.5 PF	
C10	MCC1H150JC	Ceramic	15PF	± 0.5 PF	
C11	MCC1H220JC	Ceramic	22PF	± 0.5 PF	
		RESISTOR/POTENTIOMETER			
R1	MRK14TJ102	Carbon	1 KΩ	± 5 % ¼W	
VR1		Variable resistor	5 KΩ		
VR2		Varjable resistor	100 KΩ		
VR3		Variable resistor	500 Ω		
		DIODE			
D1	MDC3001	1N60			
D2,D3	MDS0004	1S955			
D4,D5	MDS0004	1S955			
D6,D7	MDS0004	1S955			
D8,D9	MDS0004	1S955			
D10	MDS0001	1N60			
D11	MDS0001	1N60			
		COIL/P.C.B.			
L1	MLA0011	VHF coil			
L2,L3,L4	MLA0012	VHF coil			
L5	MLA0014	VHF coil			
L6	MLA0013	VHF coil			
RFC1	MLZ004N	Choke coil			
	UPB-008T	PC board			

▪ PARTS LIST OF RELAY UNIT (UPB-009T)

K1	MYR0001	Relay			
L101	MTC0001	Choke coil			
D102	MDS0005	Diode	1N4448		
C102	MCD16A102	Electrolytic	1000μF	16 WV	
	UPB-009T	PC board			

Circuit No.	Part No.	Description	Remarks
VR1	MRT102B	Volume 1 KΩ	
VR2,VR3	MRT502B	Volume 5 KΩ	
VR4	MRT302B	Volume 3 KΩ	
VR5	MRT502B	Volume 5 KΩ	
		MISCELLANEOUS	
	MJC4C001	IL Connector 4 P	
	MJC6C003	IL Connector 6 P	
	MJC7C004	IL Connector 7 P	
	MGH0003	Wrapping pin	
		SEMICONDUCTOR	
Q1~Q4	MQC460	Transistor 2SC460	
Q5,Q6	MQC388A	Transistor 2SC388A	
Q7	MQC2053	Transistor 2SC2053	
Q8	MQC1970	Transistor 2SC1970	
Q9	MQC460	Transistor 2SC460	
Q10	MQC496	Transistor 2SC496	
Q11	MQA495	Transistor 2SA495	
Q12	MQC1000	Transistor 2SC1000	
IC1	MIC 004	TA7061AP	
IC2	MIC 005	AN 315	
		DIODE	
D1	MDC0001	Diode 1S1658	
D2	MDS0006	Diode 1N4002	
D3	MDR0001	SCR SP4002	
D4,D5	MDS0005	Diode 1N4448	
D6	MDS0006	Diode 1N4002	
D7	MDZ0004	Zener Diode WZ-100	
	UHD0005	IC Heat Sink	
	UHD0009	Heat Sink	
	UPB002T	PC Board	
T1~T3	MLS001C	Tuning Coil 12 MHz	
T4	MLT001C	Tuning Coil 24 MHz	
T5	MLT002C	Tuning Coil 24 MHz	
T6	MLT003C	Tuning Coil 72 MHz	
T7,T8	MLT004C	Tuning Coil 72 MHz	
T9	MLT005C	Tuning Coil 145 MHz	
T10	MLT006C	Tuning Coil 145 MHz	
L1	MLM102F	Ferri Inductance 1 mH	
L2	MLZ003N	Coil S6B (YLW)	
L3	MLZ002N	Coil S10H3 (ORG)	
L4	MLZ001N	Coil S10H3 (RED)	
L5	MLM102F	Ferri Inductance 1 mH	
L6	MLM153F	Ferri Inductance 150 mH	

Circuit No.	Part No.	Description			Remarks
R63	MRK14VJ331	Carbon	330Ω	± 5 % ¼W	
R64	MRK14VJ101	Carbon	100Ω	± 5 % ¼W	
R65	MRK14VJ102	Carbon	1 KΩ	± 5 % ¼W	
R66	MRK14VJ223	Carbon	22KΩ	± 5 % ¼W	
R67	MRK14VJ221	Carbon	220Ω	± 5 % ¼W	
R68	MRK14VJ471	Carbon	470Ω	± 5 % ¼W	
R69	MRK14VJ332	Carbon	3.3KΩ	± 5 % ¼W	
R70	MRK14VJ222	Carbon	2.2KΩ	± 5 % ¼W	
R73	MRK14VJ471	Carbon	470Ω	± 5 % ¼W	
R74	MRK14VJ473	Carbon	47KΩ	± 5 % ¼W	
R75	MRK14VJ472	Carbon	4.7KΩ	± 5 % ¼W	
R76	MRK14VJ473	Carbon	47KΩ	± 5 % ¼W	
R77	MRK14VJ682	Carbon	6.8KΩ	± 5 % ¼W	
R78	MRK14VJ153	Carbon	15KΩ	± 5 % ¼W	
R79	MRK14VJ102	Carbon	1 KΩ	± 5 % ¼W	
R80	MRK14VJ561	Carbon	560Ω	± 5 % ¼W	
R81	MRK14VJ471	Carbon	470Ω	± 5 % ¼W	
R82	MRK12VJ5R6	Carbon	5.6Ω	± 5 % ½W	
R83	MRK14VJ471	Carbon	470Ω	± 5 % ¼W	
R84	MRK14VJ102	Carbon	1 KΩ	5 % ¼W	
R85	MRK14VJ473	Carbon	47KΩ	± 5 % ¼W	
R86	MRK14VJ472	Carbon	4.7KΩ	± 5 % ¼W	
R87	MRK14VJ333	Carbon	33KΩ	± 5 % ¼W	
R88	MRK14VJ102	Carbon	1 KΩ	± 5 % ¼W	
R89	MRK14VJ332	Carbon	3.3KΩ	± 5 % ¼w	
R90	MRK14VJ103	Carbon	10KΩ	± 5 % ¼W	
R91	MRK14VJ101	Carbo...	100Ω	± 5 % ¼W	
R92	MRK14VJ104	Carbon	100KΩ	± 5 % ¼W	
R93	MRK14VJ472	Carbon	4.7KΩ	± 5 % ¼W	
R94,R95	MRK14VJ563	Carbon	56KΩ	± 5 % ¼W	
R96	MRK14VJ473	Carbon	47KΩ	± 5 % ¼W	
R97	MRK14VJ273	Carbon	27KΩ	± 5 % ¼W	
R98	MRK14VJ154	Carbon	150KΩ	± 5 % ¼W	
R99	MRK14VJ153	Carbon	15KΩ	± 5 % ¼W	
R100	MRK14VJ223	Carbon	22KΩ	± 5 % ¼W	
R101	MRK14VJ103	Carbon	10KΩ	± 5 % ¼W	
R102	MRK14VJ562	Carbon	5.6KΩ	± 5 % ¼W	
R103	MRK14VJ223	Carbon	22KΩ	± 5 % ¼W	
R104	MRK14VJ102	Carbon	1 KΩ	± 5 % ¼W	
R105	MRK14VJ222	Carbon	2.2KΩ	± 5 % ¼W	
R106	MRK14VJ222	Carbon	2.2KΩ	± 5 % ¼W	
Q1,Q2	MQF-3SK41	FET	3SK-41		
Q2,Q3,Q4	MQC 460	FET	2SC 460		
Q5,Q7,Q8	MQC 460	FET	2SC 460		
Q9,Q10,Q11	MQC 460	FET	2SC 460		
Q12,Q13,Q14	MQC 460	FET	2SC 460		
Q15,Q16	MQC 496	FET	2SC 460		
Q17	MQA 495	FET	2SA 495Y		
Q18,Q20	MQC 458	FET	2SC 458		
Q21,Q22	MQC 458	FET	2SC 458		
Q23	MQC 945	FET	2SC 945		

Circuit No.	Part No.	Description	Remarks
IC-1	MIC-003	TA7120P	
VR-1	MRT-303B	30KΩ Preset Resistor	
VR-2	MRT-103B	10KΩ Preset Resistor	
	USC-0001	Shield Case	
	USC-0002	Shield Case Cover	
	UOX-0007	Holder	
	UOX-0009	Holder Nat	
	UOX-0006	Tuning Screw	
	UOX-0008	Tapered Nat	
	UOX-0005	Ceramic Tube	
	MGH-0001	Hermetic Terminal	
		DIODE	
D 1 ~ D 5	MDS-0005	Diode 1N4448	
D 6 ~ D 7	MDG-0001	Diode 1N 60	
D 8 ~ D11	MDS-0005	Diode 1N4448	
D12 ~ D13	MDG-0001	Diode 1N 60	
D14	MDC-0001	Diode 1S2208	
D15	MDZ-0003	Zenner Diode WZ090	
D16 ~ D17	MDG-0001	Diode 1N 60	
D18	MDS-0005	Diode 1N4448	
	UPB-003T	RX P.C.B.	
		COIL/FILTER/CRYSTAL	
L1,L2	MLT-007C	ANT Coil	
L3,L5	MLA-0002	VHF Coil (A)	
L4	MLA-0001	VHF Coil (B)	
L6	MLS-003C	IFT (10.7 MHz)	
L7	MLS-002C	IFT (10.7 MHz)	
L9	MLS-005C	455 DISL Trans	
L10	MLS-006C	455 DISL Trans	
L11,L12	MLT-008C	Tuning Coil	
L13,L14	MLT-009C	Multiplier Coil	
L15	MLM-100V	Choke Coil	
L16	MLM-100F	Choke Coil	
L17	MLM-102F	Choke Coil	
L18	MLM-222F	Choke Coil	
CF-1	MFX-0001	Crystal Filter 10F20AG	
CF-2	MFC-0001	Ceramic Filter (CF-107)	
CF-3	MFC-0003	Ceramic Filter (LFC-20)	
CF-4	MFC-0002	Ceramic Filter (LFB-15)	
CX-1	MXT-0001	Crystal (10.245 MHz)	
		MISCELLANEOUS	
	MJI-12P007	Connector 12P	
	MJI-10P006	Connector 10P	
	MGH-0003	Wrapping Pin	

Circuit No.	Part No.	Description			Remarks
		RESISTOR			
R1	MRK14VJ103	Carbon	10KΩ	±5 % ¼W	
R2,R3	MRK14VJ104	Carbon	100KΩ	±5 % ¼W	
R4	MRK14VJ823	Carbon	82KΩ	±5 % ¼W	
R5,R6	MRK14VJ101	Carbon	100Ω	±5 % ¼W	
R7	MRK14VJ104	Carbon	100KΩ	±5 % ¼W	
R8	MRK14VJ102	Carbon	1KΩ	±5 % ¼W	
R9	MRK14VJ331	Carbon	330Ω	±5 % ¼W	
R10	MRK14VJ101	Carbon	100Ω	±5 % ¼W	
R11	MRK14VJ562	Carbon	5.6KΩ	±5 % ¼W	
R12	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R13	MRK14VJ153	Carbon	15KΩ	±5 % ¼W	
R14	MRK14VJ151	Carbon	150Ω	±5 % ¼W	
R15	MRK14VJ331	Carbon	330Ω	±5 % ¼W	
R16	MRK14VJ333	Carbon	33KΩ	±5 % ¼W	
R17	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R18	MRK14VJ471	Carbon	470Ω	±5 % ¼W	
R19	MRK14VJ222	Carbon	2.2KΩ	±5 % ¼W	
R20	MRK14VJ101	Carbon	100Ω	±5 % ¼W	
R21,R22	MRK14VJ471	Carbon	470Ω	±5 % ¼W	
R23	MRK14VJ222	Carbon	2.2KΩ	±5 % ¼W	
R24	MRK14VJ332	Carbon	3.3KΩ	±5 % ¼W	
R25	MRK14VJ470	Carbon	47Ω	±5 % ¼W	
R26	MRK14VJ222	Carbon	2.2KΩ	±5 % ¼W	
R27	MRK14VJ332	Carbon	3.3KΩ	±5 % ¼W	
R28	MRK14VJ470	Carbon	47Ω	±5 % ¼W	
R29,R30	MRK14VJ332	Carbon	3.3KΩ	±5 % ¼W	
R31	MRK14VJ104	Carbon	100KΩ	±5 % ¼W	
R32	MRK14VJ222	Carbon	2.2KΩ	±5 % ¼W	
R38	MRK14VJ562	Carbon	5.6KΩ	±5 % ¼W	
R39	MRK14VJ333	Carbon	33KΩ	±5 % ¼W	
R40	MRK14VJ681	Carbon	680Ω	±5 % ¼W	
R41	MRK14VJ561	Carbon	560Ω	±5 % ¼W	
R42	MRK14VJ154	Carbon	150KΩ	±5 % ¼W	
R43	MRK14VJ681	Carbon	680Ω	±5 % ¼W	
R44	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R45	MRK14VJ104	Carbon	100KΩ	±5 % ¼W	
R46	MRK14VJ471	Carbon	470Ω	±5 % ¼W	
R47	MRK14VJ332	Carbon	3.3KΩ	±5 % ¼W	
R48	MRK14VJ103	Carbon	10KΩ	±5 % ¼W	
R49	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R50	MRK14VJ471	Carbon	470Ω	±5 % ¼W	
R51	MRK14VJ561	Carbon	560Ω	±5 % ¼W	
R52,R53	MRK14VJ102	Carbon	1 KΩ	±5 % ¼W	
R54	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R56	MRK14VJ153	Carbon	15KΩ	±5 % ¼W	
R57	MRK14VJ223	Carbon	22KΩ	±5 % ¼W	
R58	MRK14VJ682	Carbon	6.8KΩ	±5 % ¼W	
R59	MRK14VJ103	Carbon	10KΩ	±5 % ¼W	
R60	MRK14VJ561	Carbon	560Ω	±5 % ¼W	
R61	MRK14VJ472	Carbon	4.7KΩ	±5 % ¼W	
R62	MRK14VJ332	Carbon	3.3KΩ	±5 % ¼W	