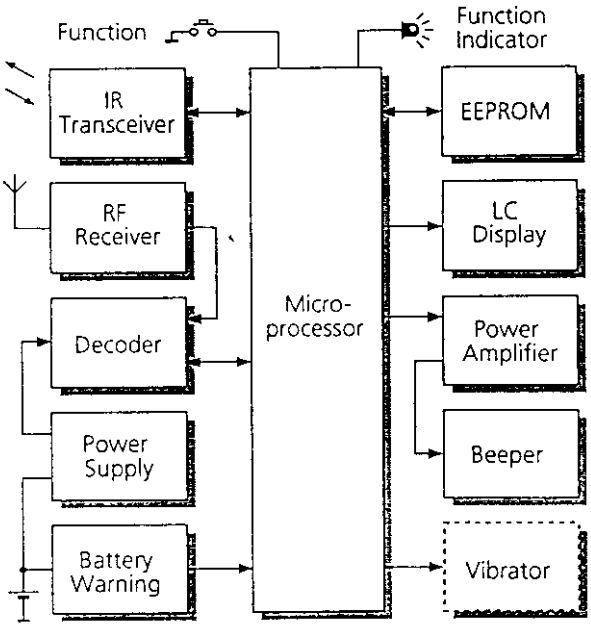
Exhibit C
FCC ID: BX24912D

HF/UHF Pocket Receiver H/U912D - Circuit Description

General Description



U/H912D is a pocket paging receiver used in the teleCOURIER 900 paging system. There are two basic versions: H912D for the HF band 25 to 50 MHz, and U912D for the UHF band 415 to 485 MHz.

Pagings are indicated using sound, an LED, and a vibrator (optional). Display messages are presented on a 12-digit LC display.

The user controls the function of the pocket unit with a single pushbutton.

The pager consists of three main parts: receiver circuit board, processor circuit board, and display.

Receiver Circuit Board

Consists of an RF receiver, IR transceiver, and battery warning circuit.

Processor Circuit Board

Consists of a microprocessor, decoder, power supply, and an EEPROM. The decoder decodes the baseband signal from the RF receiver and also controls battery saving. A watchdog circuit in the decoder checks the function of the microprocessor.

Decoder function is determined by parameters that are stored in a separate EEPROM. The parameters are transferred to the decoder by the processor. The processor stores parameters in the decoder and reads decoded data from it via a serial bus. The power supply consists of a single LR06 (AAA) battery and a voltage converter. The processor also has a built-in LCD driver, and controls the beeper, LED, and vibrator.

LC Display

The LC display consists of a 12-digit LCD window and communicates with the processor via a heat-seal connector.

Detailed Description

Refer to drawings 10604, 10614, and 10662.

HF Receiver

The HF receiver is a single IF, superheterodyne receiver with an intermediate frequency of 455 kHz.

The receiver is turned on by the signal RXEN.

The antenna is a ferrite loop antenna, tuned by C200. The RF signal from the antenna is amplified in the amplifier TR201/TR200. The amplifier is tuned by L201. Test point TPTR200 is used to measure the dc current through the transistors.

The local oscillator and mixer are in IC200. The frequency is set with L202. Test point TPIC200 is used to measure the dc current in IC200.

The IF signal is filtered in FL200 and fed to the IF circuit. Test point TPIF is used to measure the conversion gain of the frontend.

IC200 also contains an op-amplifier, a detector, comparator, quick-start circuit, voltage regulator, and battery warning test circuit. IF signal is demodulated by ceramic discriminator X201. The baseband output signal from the detector is filtered between TPAF and TPLP, and fed to the comparator. The demodulated data is fed to the decoder via pin CODE on J200.

To compensate for duty cycle variations when the radio is turned on the quick-start circuit supplies a fast charge to capacitor C210. The quick-start signal comes from the decoder via pin QS on J200.

The voltage regulator supplies 1,0 V to stabilise the operating point on the transistors. The battery warning signal (LOBATT) goes high when battery voltage drops below about 1,15 V. Test point TPV10 is used to measure the regulated supply.

UHF Receiver

The UHF receiver is a single IF, superheterodyne receiver. The RF path is partly balanced and the local oscillator operates on the RF frequency divided by two. The intermediate frequency is 455 kHz.

The receiver is turned on by the signal RXEN.

The antenna is a metal wire loop antenna, tuned by C302. Except for the tuning components mentioned below the frequency bands are determined by several components listed on the schematic diagram. RF signal from the antenna is amplified in cascaded amplifiers TR301/TR351. The amplifiers are tuned by C303 and C353, respectively. Test points TP1 and TP2 are used to measure the dc current through each transistor.

The local oscillator is a standard Butler with a third order overtone crystal. The frequency is set with C326. Test point TP7 is used to measure the dc current through transistor TR303.

The local oscillator signal is fed to frequency tripler TR304 which is tuned by C346. Output from this stage is the RF frequency divided by 2. Test point TP8 is used to measure the dc current through the transistor.

Mixer TR302/352 is a balanced overtone type. LO signal is fed common mode and the RF is fed differential mode. At the output of TR351 the RF signal is converted from single-ended to differential by L303/L353. To eliminate noise in the mixer, all frequencies except the RF channel are differentially short circuited on the mixer input by a parallel resonant circuit consisting of L302, L352, C311, and C339. The IF is extracted differentially on the collectors of TR302/TR352. Test point TP3 is used to measure the dc current through the transistors.

The IF signal is buffered in TR305, filtered in FL300, and fed to the IF circuit. Test point TP4 is used to measure the dc current through the transistor, and test point TP6 is used to measure the conversion gain of the frontend.

The IF circuit, IC300, consists of two op-amplifiers, a detector, comparator, quick-start circuit, voltage regulator, and battery warning test circuit. IF signal is demodulated by ceramic discriminator X302. The baseband output signal from the detector is filtered between TP10 and TP11, and fed to the comparator. The demodulated data is fed to the decoder via pin CODE on J300.

To compensate for duty cycle variations when the radio is turned on the quick-start circuit supplies a fast charge to capacitor C331. The quick-start signal comes from the decoder via pin QS on J300. Test point TP9 is used to measure the dc current through IC300.

The voltage regulator supplies 1,0 V and is temperature compensated to stabilise the operating point on the transistors. The battery warning signal (LOBATT) goes high when battery voltage drops below about 1,15 V. Test point TP12 is used to measure the regulated supply.

IR Transceiver

The IR transceiver is used to communicate with the central unit when the pocket unit is placed in the storage rack. The IR transceiver has the designation IC201 in HF versions of the pocket receiver and IC301 in UHF versions.

Processor Circuit Board

IC100 is a mask programmed microprocessor with onchip RAM and ROM. It controls the function of the different parts of the receiver.

Parameters determining the function of the receiver are stored in EEPROM IC102. By changing these parameters it is possible to adapt the pager for a specific installation. Power is supplied via TR100. The processor opens TR100 by pulling pin 34 low. It use pins 28, 29, 32, and 50 to read and write parameters in the EEPROM.

The processor has a built-in LCD driver.

Beeper LS500 is connected to a balanced bridge power amplifier consisting of TR500, TR501, TR502 and TR504. TR505/TR506 invert the phase of the signal for the right half of the bridge. The tone

signal appears at pin 45 of IC100. The volume is determined by pins 30 and 31 of IC100. The logic levels of these outputs are converted to a voltage level on the emitter of TR507. This voltage determines the maximum peak-to-peak voltage applied to LS500 and thus the volume.

The function switch is connected to pin 26 of the processor.

LED100 is connected via R117 to pin 44.

Vibrator V101 (optional) is driven by TR101 when pin 46 of IC100 is pulled high. At power-up the processor uses pin 43 to check if a vibrator is mounted.

A test load is connected by TR102 to check battery condition. This is done by the processor by applying a high level to pin 47. The low battery detector on the receiver unit is connected to pin 33 of IC100. When the RF receiver is on, a high level on this pin indicates low battery voltage.

A communication sequence is started when the pager is placed in a storage rack. The pager and the storage rack communicate via IR. The IR transceiver is located on the receiver unit. Data to be transmitted via IR appears on pin 35 of IC100. Received data is fed via TR103 to pin 15. The logic level on pin 15 is normally high when the receiver is not in a storage rack (no IR detected). When the receiver is in the storage rack the level should be low (IR detected).

Decoder IC101 is used to control battery saving and decode received code. It also includes a timer and watchdog circuit. Various decoder functions such as battery saving period and decision rules are determined by parameters that are stored in the decoder by the processor.

The watchdog circuit is used to check processor function. The decoder starts the receiver by pulling pin 13 high. At the same time a pulse appears on pin 12. This pulse provides a faster start of the receiver. Received code is fed from the receiver to pin 16 of IC101.

When valid data is received, the decoder pulls IC101 pin 3 high. This is fed to IC100 pin 14 and starts the processor. Decoded data is then read by the processor using pins 2, 100, and 20. Pin 2 of IC100 is used by the processor to clock data to/from the decoder. Data appears on pin 100. Pin 20 is used to direct data to or from the decoder.

An internal timer in IC101 applies a pulse to pin 7 once every minute. The processor uses this pulse to increment its internal real-time clock and for other similar functions. The timer is controlled by crystal X100, connected to pin 1 and 2.

If the processor fails to respond when a valid code has been detected by IC101, the watchdog circuit is activated. The decoder then applies a low pulse to pin 10. This forces pin 12 on IC100 low to restart the processor. The watchdog circuit is also activated if the processor fails to respond to the timer pulse from the decoder.

Internal timing of processor IC100 is provided by resonator X101 connected to pins 7 and 8. Oscillation appears only when the processor is activated for example by the decoder or by the function switch.

LC Display

The display unit consists of a 12-digit LCD window and communicates with the processor via a heat-seal connector. Orientation and character table are variable parameters that are selected in the EEPROM.

Power Supply

Power is supplied by a single LR06 (AAA) cell. Some circuits are powered directly from the battery and others via a voltage converter. The voltage converter consists of IC103, L102, and D100A/B. The voltage converter output is maintained at about 3,0 V.

Prod. nummer	Produktnamn	Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
U912D		10	100	SENREV	Senaste revisionsdatum		__	1998-05-06 / SH
		15	900	250322	EMBALLAGE 912 & 5012 J12532	1,000	ST	
		20		544487	MOTTAGARKORT A U912RXD	1,000	ST	
		30		544488	MOTTAGARKORT B U912RXD	1,000	ST	
		40		544489	MOTTAGARKORT C U912RXD	1,000	ST	
		50		544490	MOTTAGARKORT D U912RXD	1,000	ST	
		60		544491	MOTTAGARKORT E U912RXD	1,000	ST	
		70		544493	KÅPA KOMPLETT GRÅ 912D	1,000	ST2	
		80		544494	KÅPA KOMPLETT SVART 912D	1,000	ST2	
		90		544499	PROCESSORKORT STD 912PUD	1,000	ST	
		100		544500	PROCESSORKORT VIBR. 912PUD	1,000	ST	
		110		544567	KÅPA KOMPL L.GRÅ TELET. 5012D	1,000	ST2	
		120		544568	KÅPA KOMPL M.GRÅ ERICS. 5012D	1,000	ST2	
		130		544597	KÅPA KOMPL L.GRÅ ACKER. 5012D	1,000	ST2	
		140		544598	KÅPA KOMPL M.GRÅ ALCAT. 5012D	1,000	ST2	

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Prod. nummer	Produktnamn		Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
544493	KÅPA KOMPLETT GRÅ	912D	10	100	SENREV	Senaste revisionsdatum		--	1997-12-01 / SH
			20	900	230727	BATT.BLECK (-) 912D M60175G	1,000	ST	
			30		230787	BATT.BLECK (+) 912D&T M60035F	1,000	ST	
			40		280689	KÅPHALVA FR. GRÅ 912D M60161F	1,000	ST	
			50		280700	TRYCKKNAPP RÖD 912D M60171C	1,000	ST	
			60		280701	IR-GLAS 912D M60170B	1,000	ST	
			70		280784	DAMMSKYDD HÖGTAL. 912D M60363A	1,000	ST	
			80		280791	KÅPHALVA BAK GRÅ 912D M60162B	1,000	ST	
			90		300283	SKRUV P-TYPE 1.7*3.0*0.9*4.0	3,000	ST	
			100		300403	SKRUV P-TYPE 1.7x3.5x0.9x11	3,000	ST	
			110		490332	TEJP DISPLAYSTÖD 912D M60243B	1,000	ST	
			120		490335	TEJP TILL TOPP 912D M60380A	1,000	ST	
			130		544495	CLIPS GRÅ 912D	1,000	ST	
			140		544497	BATTERILOCK GRÅ 912D	1,000	ST	
			150		544576	TOPP KOMPLETT 912D	1,000	ST	

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Prod. nummer	Produktnamn	Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
544567	KÅPA KOMPL L.GRÅ TELET. 5012D	10	100	SENREV	Senaste revisionsdatum		--	1997-12-17 / SH
		20	900	230783	BATT.BLECK (-) 5012D M60509D	1,000	ST	
		30		230787	BATT.BLECK (+) 912D&T M60035F	1,000	ST	
		40		280360	BATT.LOCK SÄK.LÅS 280360C1	1,000	ST	
		50		280784	DAMMSKYDD HÖGTAL. 912D M60363A	1,000	ST	
		60		280869	KÅPHALVA BAK LJ.GRÅ 5012D	1,000	ST	
		70		280871	KÅPHALVA FRAM LJ.GRÅ 5012D	1,000	ST	
		80		280873	BATT.LOCK LJ.GRÅ 5012D M60505B	1,000	ST	
		90		280875	DISPL.FÖNST. SV. 5012D M60506A	1,000	ST2	
		100		280876	LJUSLEDARE 5012D M60507D	1,000	ST	
		110		280947	TRYCKKNAPP GRÖN 5012D M60692A	1,000	ST	
		120		280959	IR-GLAS 5012D "teletracer"	1,000	ST	
		130		300283	SKRUV P-TYPE 1.7*3.0*0.9*4.0	3,000	ST	
		140		300403	SKRUV P-TYPE 1.7x3.5x0.9x11	3,000	ST	
		150		490332	TEJP DISPLAYSTÖD 912D M60243B	1,000	ST	
		160		490427	TEJP IR-GLAS 5012D M60511B	1,000	ST	
		170		544571	CLIPS LJUSGRÅ 5012	1,000	ST2	

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Prod. nummer	Produktnamn	Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
544568	KÅPA KOMPL M.GRÅ ERICS. 5012D	10	100	SENREV	Senaste revisionsdatum		--	1997-12-17 / SH
		20	900	230783	BATT.BLECK (-) 5012D M60509D	1,000	ST	
		30		230787	BATT.BLECK (+) 912D&T M60035F	1,000	ST	
		40		280360	BATT.LOCK SÄK.LÅS 280360C1	1,000	ST	
		50		280784	DAMMSKYDD HÖGTAL. 912D M60363A	1,000	ST	
		60		280870	KÅPHALVA BAK SV.GRÅ 5012D	1,000	ST	
		70		280872	KÅPHALVA FRAM SV.GRÅ 5012D	1,000	ST	
		80		280874	BATT.LOCK SV.GRÅ 5012D M60505B	1,000	ST	
		90		280875	DISPL.FÖNST. SV. 5012D M60506A	1,000	ST2	
		100		280876	LJUSLEDARE 5012D M60507D	1,000	ST	
		110		280947	TRYCKKNAPP GRÖN 5012D M60692A	1,000	ST	
		120		280958	IR-GLAS 5012D "ERICSSON"	1,000	ST	
		130		300283	SKRUV P-TYPE 1.7*3.0*0.9*4.0	3,000	ST	
		140		300403	SKRUV P-TYPE 1.7x3.5x0.9x11	3,000	ST	
		150		490332	TEJP DISPLAYSTÖD 912D M60243B	1,000	ST	
		160		490427	TEJP IR-GLAS 5012D M60511B	1,000	ST	
		170		544572	CLIPS MÖRKGRÅ 5012	1,000	ST2	

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Prod. nummer	Produktnamn	Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
544500	PROCESSORKORT VIBR. 912PUD	10	100	SENREV	Senaste revisionsdatum		--	1998-01-13 / SH
		20	900	090096	DISPLAY LCD 912D M60188D	1,000	ST	
		30		180679	INTER-CONNECTOR 912D M60179C	1,000	ST	
		40		490303	TEJP VIBMOTOR 912 M60037E	1,000	ST	
		50		490304	MOTOR AT-M08-0040	1,000	ST	
		60		544380	GEMENSAM SMD SATS 912PUD	1,000	ST	

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Tillhör arkiv nr: TU:

Parts List No.	Product name			Ref.No.	Description					Art.No.
544380	COMMON	SMD KIT	912PUD	980605	Latest revision date for this parts list					SENREV
				PC	PC-BOARD VERSION 40396 C					010561
				C100	CAP.CHIP X7R	10N	0603	50V	10%	040702
				C102	CAP.TANTAL CHIP	M10	D	10V	20%	040742
				C103	CAP.TANTAL CHIP	M10	D	10V	20%	040742
				C104	CAP.CHIP X7R	22N	0603	25V	10%	040719
				C105	CAP.CHIP X7R	22N	0603	25V	10%	040719
				C110	CAP.CHIP NP0	47P	0603	50V	2%	040712
				C111	CAP.CHIP NP0	47P	0603	50V	2%	040712
				C112	CAP.CHIP NP0	22P	0603	50V	2%	040710
				C113	CAP.CHIP NP0	15P	0603	50V	2%	040734
				C500	CAP.CHIP X7R	1U0	0805	10V	10%	040765
				C501	CAP.CHIP X7R	1U0	0805	10V	10%	040765
				C502	CAP.CHIP X7R	U10	0805	25V	10%	040692
				D100	DIODE SCHOTTKY	SOT23	BAT54C			070201
				D101	DIODE CHIP	SOT323	DAN202U			070227
				D500	DIODE CHIP	SOT323	DAN202U			070227
				D501	DIODE CHIP	SOT323	DAN202U			070227
				IC100	UP PROGR. S912D	V4.00	UPD78P0308GF QFP			080735
				IC101	DECODER IC	SO-16	EL00 19			080563
				IC102	EE-PROM 2K	SO-8	93LC56BX/SN			080564
				IC103	VOLT.CONV. 3V	SOT89	S-8435BF			080569
				IC104	VOLTAGE DETECTOR	SOT89	7700YVA			080561
				J102	FEMALE CONTACT SMD 16P		1-177560-6			180647
				L100	COIL CHIP	3U3H	1008CS		10%	060168
				L101	COIL CHIP	1U5H	SIMID 02		10%	060151
				L102	CHOKE	220UH	D75C			060206
				L103	COIL CHIP	U47H	1008CS		10%	060133
				LED100	LIGHT EM.DIODE SMD RED		CL-200HR-C-TU			090095
				LS500	AUDIO TRANSDUCER		MWT-01A			150048
				R100	RESISTOR CHIP	1K0	0603		1%	020656
				R101	RESISTOR CHIP	M10	0603		1%	020663
				R102	RESISTOR CHIP	10K	0603		1%	020666
				R103	RESISTOR CHIP	10K	0603		1%	020666
				R104	RESISTOR CHIP	10K	0603		1%	020666
				R105	RESISTOR CHIP	10K	0603		1%	020666
				R107	RESISTOR CHIP	M10	0603		1%	020663
				R108	RESISTOR CHIP	10K	0603		1%	020666
				R109	RESISTOR CHIP	M10	0603		1%	020663
				R110	RESISTOR CHIP	4M7	0603		5%	020662
				R111	RESISTOR CHIP	1K0	0603		1%	020656
				R112	RESISTOR CHIP	10K	0603		1%	020666
				R113	RESISTOR CHIP	10K	0603		1%	020666
				R114	RESISTOR CHIP	47R	0805		5%	020605
				R115	RESISTOR CHIP	10K	0603		1%	020666
				R116	RESISTOR CHIP	1K0	0603		1%	020656
				R117	RESISTOR CHIP	K15	0603		1%	020711
				R118	RESISTOR CHIP	K33	0603		1%	020664
				R119	RESISTOR CHIP	10M	0805	0W1	5%	020625
				R120	RESISTOR CHIP	10K	0603		1%	020666
				R121	RESISTOR CHIP	1M0	0603		1%	020667
				R122	RESISTOR CHIP	M22	0603		1%	020714
				R123	RESISTOR CHIP	10K	0603		1%	020666
				R125	RESISTOR CHIP	M39	0603		1%	020698
				R126	RESISTOR CHIP	4M7	0603		5%	020662
				R130	RESISTOR CHIP	M10	0603		1%	020663

Tillhör arkiv nr: TU:

Parts List No.	Product name	Ref.No.	Description				Art.No.
544380	COMMON SMD KIT 912PUD	R131	RESISTOR CHIP	68R	0805	5%	020586
		R134	RESISTOR CHIP	M39	0603	1%	020698
		R135	RESISTOR CHIP	1K0	0603	1%	020656
		R136	RESISTOR CHIP	M39	0603	1%	020698
		R500	RESISTOR CHIP	K56	0603	1%	020655
		R501	RESISTOR CHIP	2K2	0603	1%	020657
		R502	RESISTOR CHIP	M10	0603	1%	020663
		R503	RESISTOR CHIP	M10	0603	1%	020663
		R504	JUMPER	0R	0805		020636
		R505	RESISTOR CHIP	M10	0603	1%	020663
		R506	RESISTOR CHIP	1K0	0603	1%	020656
		R507	RESISTOR CHIP	2K2	0603	1%	020657
		R508	RESISTOR CHIP	K56	0603	1%	020655
		R509	RESISTOR CHIP	3K9	0603	1%	020672
		R510	RESISTOR CHIP	7K5	0603	1%	020683
		R511	RESISTOR CHIP	5K6	0603	1%	020673
		S100	PUSH BUTTON SWITCH SMD		SKQLLC		170289
		TR100	TRANSISTOR CHIP	SOT323	BC858CW		070232
		TR101	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225
		TR102	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225
		TR103	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225
		TR104	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225
		TR500	TRANSISTOR CHIP	SOT323	BC807W-40		070230
		TR501	TRANSISTOR CHIP	SOT323	BC807W-40		070230
		TR502	TRANSISTOR CHIP	SOT323	BC817W-40		070231
		TR504	TRANSISTOR CHIP	SOT323	BC817W-40		070231
		TR505	TRANSISTOR CHIP	SOT323	BC858CW		070232
		TR506	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225
		TR507	TRANSISTOR CHIP	SOT323	BC817W-40		070231
		X100	CRYSTAL SMD	76.800	MC-306		101751
		X101	CER. RESONATOR CHIP		PBRC-4.00-B		120045
		X102	CRYSTAL SMD	32.768	MC-306		101757

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Prod. nummer	Produktnamn		Löp. nr	Opn	Matr. nr	Artikelbenämning	Ing. kvant	Enh	Textrad 1
544487	MOTTAGARKORT A	U912RXD	10	100	SENREV	Senaste revisionsdatum		__	1998-04-14 / SH
			20	900	230751	ANTENN (TRÅD) U912D M60177E	1,000	ST	
			30		544590	SMD-SATS BAND A U912RXD	1,000	ST	

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Tillhör arkiv nr: TU:

Parts List No.	Product name			Ref.No.	Description					Art.No.
544590	SMD-KIT	BAND A	U912RXD	971002	Latest revision date for this parts list					SENREV
				.	COMMON COMPONENT KIT		U912RXD			544486
				C305	CAP.CHIP NP0	4P7	0603	50V	P25	040707
				C313	CAP.CHIP N750	15P	0805	25V	5%	040505
				C314	CAP.CHIP NP0	8P2	0603	50V	P25	040733
				C320	CAP.CHIP NP0	68P	0603	50V	5%	040713
				C342	CAP.CHIP NP0	12P	0603	50V	2%	040709
				C355	CAP.CHIP NP0	3P3	0603	50V	P25	040746
				R420	CAP.CHIP X7R	22N	0603	25V	10%	040719

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Tillhör arkiv nr: TU:

Parts List No.	Product name	Ref.No.	Description					Art.No.
544486	COMMON COMPONENT KIT U912RXD	980629	Latest revision date for this parts list					SENREV
		PC	PC-BOARD VERSION 40360 K					010547
		C301	CAP.CHIP NP0	68P	0603	50V	5%	040713
		C302	TRIMCAP.CHIP	3P	3*4,5MM			050028
		C303	TRIMCAP.CHIP	3P	3*4,5MM			050028
		C304	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C306	CAP.CHIP NP0	10P	0603	50V	P25	040708
		C307	CAP.CHIP NP0	P82	0603	50V	P25	040729
		C308	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C309	CAP.CHIP NP0	1P0	0603	50V	P25	040705
		C310	CAP.CHIP NP0	3P9	0603	50V	P25	040731
		C311	CAP.CHIP NP0	2P7	0603	50V	P25	040768
		C312	CAP.CHIP NP0	68P	0603	50V	5%	040713
		C315	CAP.CHIP X7R	U22	0805	16V	10%	040741
		C316	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C317	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C318	CAP.CHIP NP0	10P	0603	50V	P25	040708
		C319	CAP.CHIP NP0	3P9	0603	50V	P25	040731
		C321	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C322	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C323	CAP.CHIP X7R	U22	0805	16V	10%	040741
		C324	CAP.CHIP X7R	1U0	0805	10V	10%	040765
		C325	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C326	TRIMCAP.CHIP	6P	TZC03Z			050033
		C327	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C328	CAP.CHIP X7R	1U0	0805	10V	10%	040765
		C329	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C330	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C331	CAP.TANTAL CHIP	4U7	R	4,0V	20%	040743
		C332	CAP.CHIP NP0	N18	0603	50V	5%	040700
		C333	CAP.CHIP X7R	N47	0603	50V	10%	040738
		C334	CAP.CHIP NP0	N10	0603	50V	5%	040715
		C335	CAP.CHIP X7R	N56	0603	50V	10%	040716
		C336	CAP.CHIP X7R	1U0	0805	10V	10%	040765
		C337	CAP.CHIP X7R	1U0	0805	10V	10%	040765
		C338	CAP.CHIP NP0	5P6	0603	50V	P25	040763
		C339	CAP.CHIP NP0	2P7	0603	50V	P25	040768
		C340	CAP.CHIP X7R	U22	0805	16V	10%	040741
		C341	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C343	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C344	CAP.CHIP X7R	22N	0603	25V	10%	040719
		C345	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C346	TRIMCAP.CHIP	6P	TZC03Z			050033
		C347	CAP.CHIP NP0	68P	0603	50V	5%	040713
		C353	TRIMCAP.CHIP	3P	3*4,5MM			050028
		C354	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		C356	CAP.CHIP NP0	10P	0603	50V	P25	040708
		C357	CAP.CHIP NP0	P82	0603	50V	P25	040729
		C359	CAP.CHIP NP0	1P0	0603	50V	P25	040705
		C360	CAP.CHIP NP0	3P9	0603	50V	P25	040731
		C365	CAP.CHIP X7R	U22	0805	16V	10%	040741
		C366	CAP.CHIP X7R	2N2	0603	50V	10%	040718
		D300	DIODE CHIP	SOT323	BAV99W			070226
		FL300	FILTER CERAMIC	SMD	ATECFM5-455CL			120042
		IC300	IC FM IF AMPLIFIER		CXA1474AN			080590
		IC301	PHOTO-REFLECTOR	PR-11	RANK B			090086

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Parts List No.	Product name	Ref.No.	Description				Art.No.
544486	COMMON COMPONENT KIT U912RXD	J300	MALE CONTACT SMD	16P	1-178987-6		180646
		L300	COIL CHIP	12NH	0805CS	20%	060173
		L301	COIL CHIP	U10H	0603	5%	060217
		L302	COIL CHIP	12NH	0805CS	20%	060173
		L303	COIL CHIP	8N2H	0805CS	20%	060172
		L304	COIL IF-BALUN	SMD	CP-55 5119-H003		060211
		L305	COIL CHIP	1UH	1008CS	10%	060141
		L306	COIL CHIP	27NH	0805CS	20%	060174
		L307	COIL CHIP	U22H	1008CS	2%	060125
		L308	COIL CHIP	U10H	0603	5%	060217
		L351	COIL CHIP	U10H	0603	5%	060217
		L352	COIL CHIP	12NH	0805CS	20%	060173
		L353	COIL CHIP	8N2H	0805CS	20%	060172
		R301	RESISTOR CHIP	5K6	0603	1%	020673
		R302	RESISTOR CHIP	5K6	0603	1%	020673
		R303	RESISTOR CHIP	22K	0603	1%	020660
		R304	RESISTOR CHIP	K39	0603	1%	020670
		R305	RESISTOR CHIP	K10	0603	1%	020653
		R306	RESISTOR CHIP	1K8	0603	1%	020659
		R307	RESISTOR CHIP	1K8	0603	1%	020659
		R308	RESISTOR CHIP	K82	0603	1%	020731
		R309	RESISTOR CHIP	2K2	0603	1%	020657
		R310	RESISTOR CHIP	K68	0603	1%	020679
		R311	RESISTOR CHIP	12K	0603	1%	020708
		R312	RESISTOR CHIP	1K0	0603	1%	020656
		R313	RESISTOR CHIP	K82	0603	1%	020731
		R314	RESISTOR CHIP	68K	0603	1%	020661
		R315	RESISTOR CHIP	68K	0603	1%	020661
		R316	RESISTOR CHIP	68K	0603	1%	020661
		R317	RESISTOR CHIP	68K	0603	1%	020661
		R318	RESISTOR CHIP	68K	0603	1%	020661
		R319	RESISTOR CHIP	68K	0603	1%	020661
		R320	RESISTOR CHIP	82K	0603	1%	020671
		R321	RESISTOR CHIP	22K	0603	1%	020660
		R322	RESISTOR CHIP	15K	0603	1%	020654
		R323	RESISTOR CHIP	4M7	0603	5%	020662
		R324	RESISTOR CHIP	22K	0603	1%	020660
		R325	RESISTOR CHIP	1K0	0603	1%	020656
		R326	RESIST. CHIP NTC	4K7	0805	10%	020573
		R327	RESISTOR CHIP	12K	0603	1%	020708
		R328	RESISTOR CHIP	1K8	0603	1%	020659
		R329	RESISTOR CHIP	22K	0603	1%	020660
		R330	RESISTOR CHIP	1K0	0603	1%	020656
		R331	RESISTOR CHIP	68K	0603	1%	020661
		R332	RESISTOR CHIP	68K	0603	1%	020661
		R333	RESISTOR CHIP	2M2	0603	5%	020705
		R351	RESISTOR CHIP	5K6	0603	1%	020673
		R352	RESISTOR CHIP	5K6	0603	1%	020673
		R354	RESISTOR CHIP	K39	0603	1%	020670
		R356	RESISTOR CHIP	1K8	0603	1%	020659
		TR300	TRANSISTOR CHIP	SOT323	BC858CW		070232
		TR301	TRANSISTOR CHIP	SOT323	BFS25A		070221
		TR302	TRANSISTOR CHIP	SOT323	BFS25A		070221
		TR303	TRANSISTOR CHIP	SOT323	BFS25A		070221
		TR304	TRANSISTOR CHIP	SOT323	BFS25A		070221
		TR305	TRANSISTOR CHIP	SOT323	BC848CW	2SC4081	070225

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Parts List No.	Product name	Ref.No.	Description	Art.No.
544486	COMMON COMPONENT KIT U912RXD	TR351	TRANSISTOR CHIP SOT323 BFS25A	070221
		TR352	TRANSISTOR CHIP SOT323 BFS25A	070221
		X302	RESONATOR CERAMIC SMD CD8C455CX33	120047

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