Mobile Transceiver

SE 550-08-25-1

Technical Handbook

0850.D08.D61.000

Edition 01 **March 1994**

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ASCOM GmbH
TECHNICAL HANDBOOK
SE 550-08-25-1

OVERVIEW

Technical Handbook

SE 550-08-25-1

Part 1

Description

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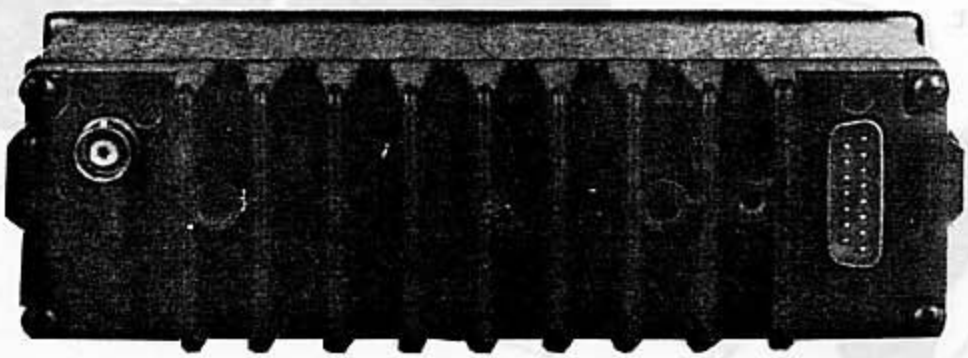
1 DESCRIPTION

1.1 Purpose

The mobile transceiver SE 550-08-25-1 is used for the transmission of speech, signalization tones and data, in the frequency range 68...88 MHz. The SE 550 provides semiduplex operation and is suitable for mobile or fixed use.



1.2 Construction

1.2.1 General

The transceiver SE 550 is a compact device with removable control unit.

The transceiver has 3 main parts:

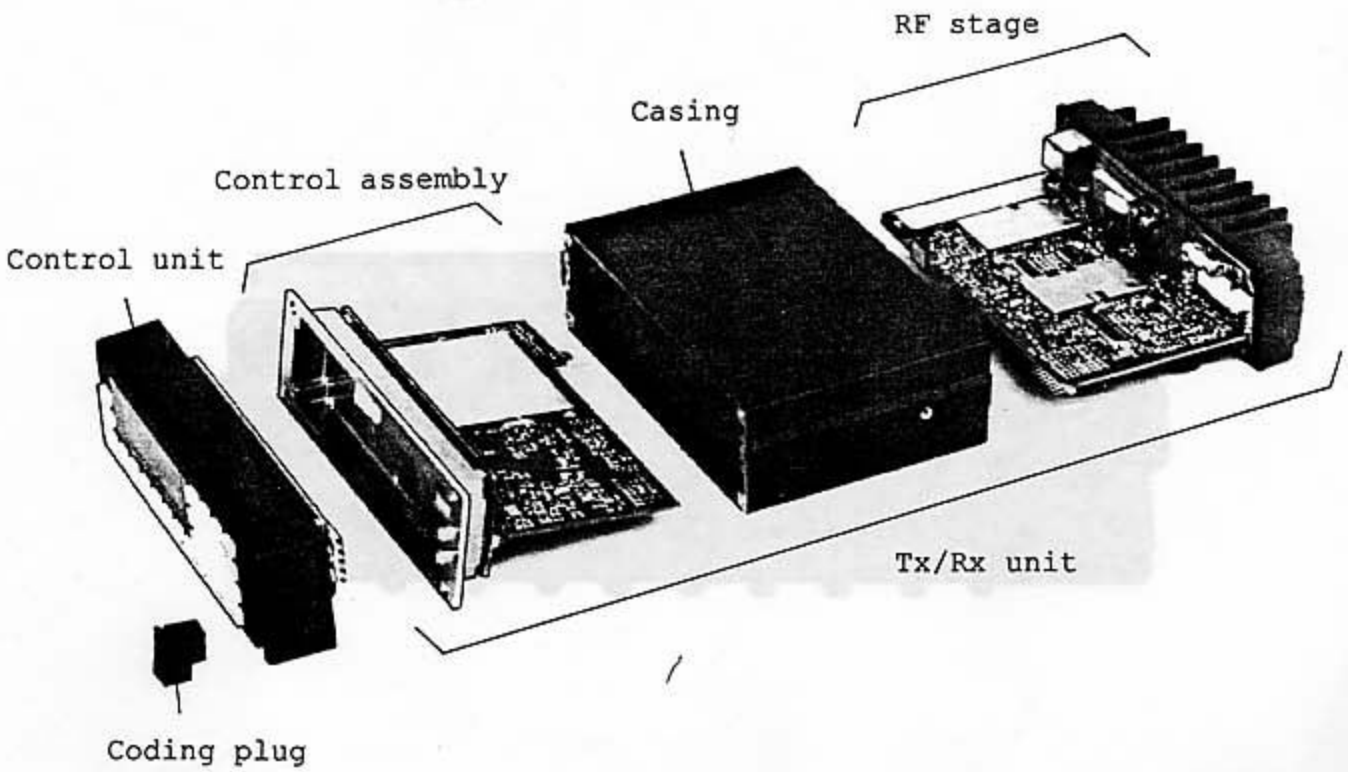
- o the RF stage, mounted on a radiator, constitutes the rear part of the transceicer
- o the control board, mounted on the front frame
- o the removable control unit

The rear part and the front frame are screwed with 4 screws to the casing. All connections between the different parts are plugged.

The transceiver is cased in a sturdy aluminium die-cast frame and protected against dust, splash-water, electrical interferences and mechanical loads.

The casing is equipped with guiding rifts for the 2 main PCB's of the transceiver. The radiator carries the main interconnection plug and the cloning plug of the transceiver.

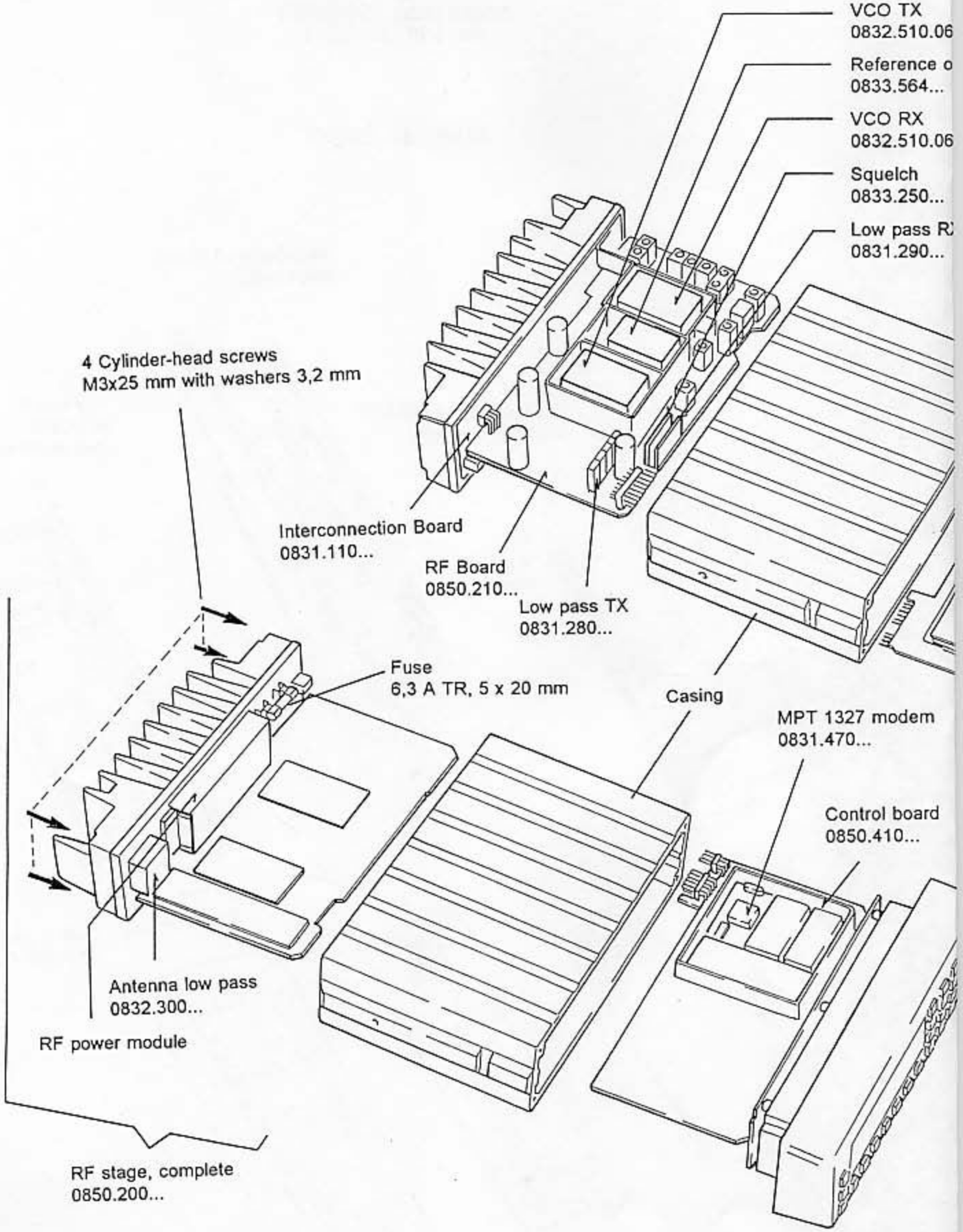
A monophone or handset can be plugged on the front part of the transceiver.



1.2.2 Assembly Review

The SE 550-08-25 mainly consists of the parts given in the table and shown in the following figures.

Pos.	Designation	Article number
1	Mobile transceiver set SE 550-08-25-1	0850.G08.N61.0C1
1.1	Transceiver SE 550-08-25-1	0850.G08.N61.100
1.1.1	Control assembly complete	0850.400.060.003
1.1.1.1	Control board	0850.410.050.003
1.1.1.2	Stabilization 3 W complete	0831.140.060.002
1.1.1.3	MPT 1327 modem	0831.470.050.001
1.1.2	RF stage complete	0850.200.060.201
1.1.2.1	RF board	0850.210.050.201
1.1.2.2	Squelch	0831.250.050.101
1.1.2.3	Low pass Tx	0831.280.050.601
1.1.2.4	Low pass Rx	0831.290.050.601
1.1.2.5	VCO Rx	0832.510.060.002
1.1.2.6	VCO Tx	0832.510.060.502
1.1.2.7	Reference oscillator TCXO 8 PPM	0833.564.060.001
1.1.2.8	Antenna low pass	0832.300.060.002
1.1.2.9	Interconnection board 25 W, SE 550	0831.110.050.101
1.2	Control unit BG 3-TR/UK, complete	0831.000.003.511
1.2.1	Coding plug 2 KB	0831.000.000.941
1.2.1.1	Coding board 2 KB	0831.940.050.001
1.2.2	Converter BG 3	0831.910.050.203
1.2.3	Display board BG 3	0831.920.050.005
1.2.4	Key board	0831.930.050.001
1.3	Mounting set complete	0831.000.060.304
1.3.1	Bag for universal mounting set	0831.080.060.002
1.3.2	Interconnector complete	0831.170.060.001
1.4	Loudspeaker 4 Ω/5 W	008.10.00.800

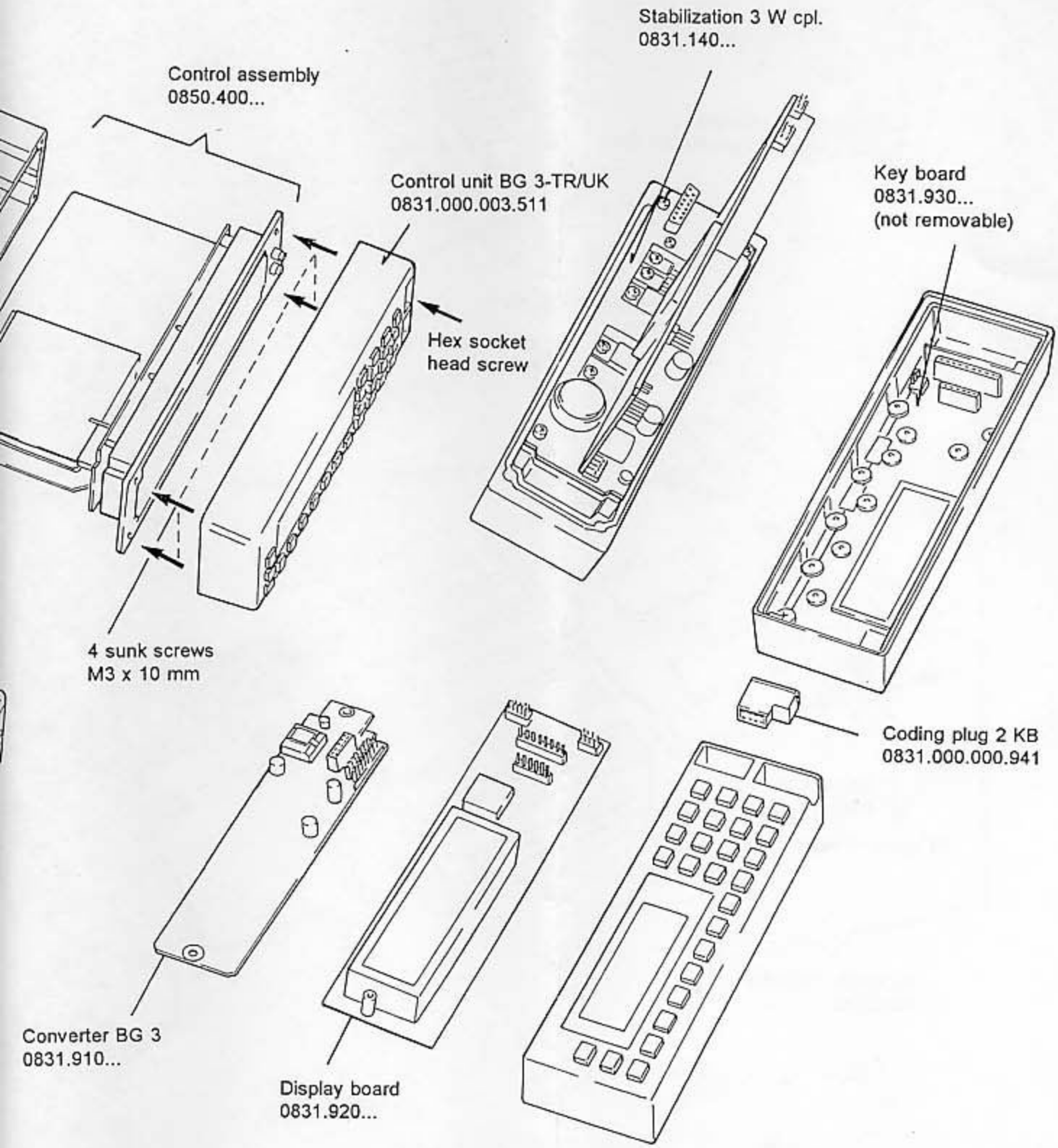

VCO TX
0832.510.06
Reference o
0833.564...
VCO RX
0832.510.06
Squelch
0833.250...
Low pass R
0831.290...
4 Cylinder-head screws
M3x25 mm with washers 3,2 mm
Interconnection Board
0831.110...
RF Board
0850.210...
Low pass TX
0831.280...
Fuse
6,3 A TR, 5 x 20 mm
Casing
MPT 1327 modem
0831.470...
Control board
0850.410...
Antenna low pass
0832.300...
RF power module
RF stage, complete
0850.200...

502

illator TCXO

002

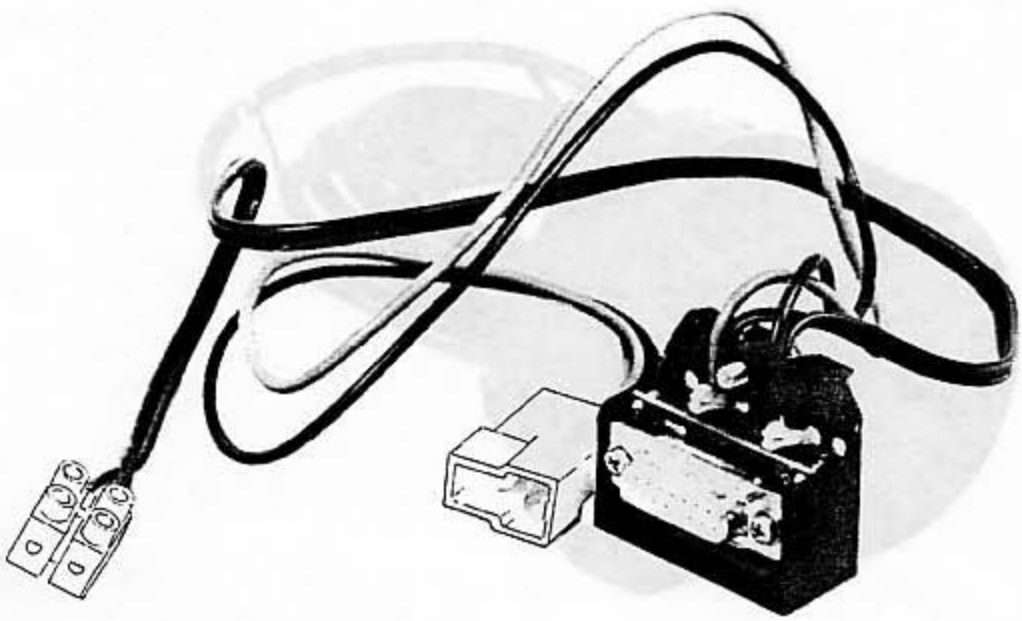
Assembly Review



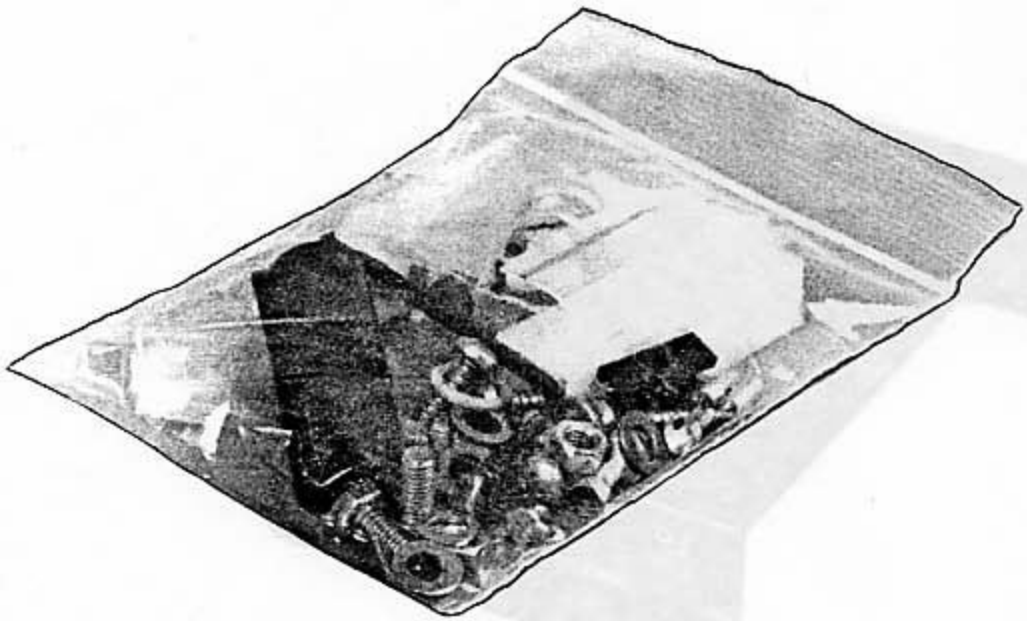
Mounting set

Simple holder, article number 852.01.48.172

Interconnector, article number 0831.170.060.001



Bag for universal mounting set, article number 0831.080.060.002



Accessories

Loudspeaker, article number 008.10.00.800

1.3 Technical Data

1.3.1 General

Type:	SE 550-08-25-1
Frequency range:	TX -> 68...88 MHz RX -> 68...88 MHz
Channel spacing:	12.5 kHz
Operating mode:	Semiduplex
Number of channels:	800
Modulation:	Voice -> PM Data -> FM
RF-switching band width:	20 MHz
Antenna plug:	BNC, 50 Ω

1.3.2 Transmitter

Tx power output:	25 W, regulated reduced power 12.5 W or 2.5 W programmable
Frequency deviation max:	2.5 kHz
Frequency response:	300...2550 Hz, -3 dB
S/N ratio CCITT:	> 40 dB
Distortion factor:	< 5 %
Mikrophone input:	1 mV
Adjacent channel rejection:	> 60 dB
Spurious and harmonic power:	< 0.25 µW (0.03...1 GHz) < 1 µW (1...12.7 GHz)

1.3.3 Receiver

Principle:	Double superhet (IF1 = 21.4 MHz; IF2 = 455 kHz)
Sensitivity at 20 dB S/N (CCITT):	typ. 0.5 µV
Protection against spurious responses:	> 80 dB
Adjacent channel selectivity:	> 70 dB
Intermodulation rejection:	> 70 dBµV (EMF)
Blocking threshold:	> 90 dBµv (EMF)
Co-channel rejection:	> -12 dB
Reradiation:	< 2 nW (0.03...1 GHz) < 20 nW (1...12.7 GHz)
Frequency response:	300...2550 Hz, -3 dB
S/N ratio CCITT:	> 40 dB
Distortion factor:	< 5 %
AF output power:	2.5 W on 4 Ω
Squelch:	noise, switchable

1.3.4 Tone Call Facility

FFSK according to ZVEI-Regionet 43.

1.3.5 Power Supply

Supply voltage:	13.2 V (10.8...15.6 V), negative pole grounded
Current consumption	
Standby:	approx. 500 mA
Reception:	approx. 1 A
Transmission:	approx. 6.5 A/25 W

1.3.6 Dimensions and Weight

Dimensions (height x width x depth):	171 mm x 52 mm x 175 mm
Weight:	approx. 1.5 kg

1.3.7 Ambient Temperatures

Operation	
Operation within given data:	-20...+55 °C
Operable:	-30...+70 °C
Storage:	-40...+80 °C

Technical Handbook

SE 550-08-25-1

Part 2

Instructions for Mobile Radio Installation

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2 INSTRUCTIONS FOR MOBILE RADIO INSTALLATION

2.1 General

Installation is to be performed along electrical safety guidelines for installations in vehicles.

Ascom radio units are manufactured only for negative chassis 12 V vehicular power supplies. For installation in vehicles with other polarities or voltages please refer to your distributor or the manufacturer.

2.2 Set of required tools

- Socket puncher for feed-through holes
- Electric drill
- High speed drill set 2 to 10 mm
- Soldering iron and solder
- Set of straight blade screwdrivers
- Set of pozidriv screwdrivers
- Set of open ended spanners
- Universal pliers
- Wire cutter & stripper
- Reflectometer/VSWR-bridge

2.3 Radio Unit Cradle

Select a safe and convenient place for the cradle holding the radio unit, such that:

- the radio unit can be operated conveniently by a user with seat belts on, with the radio display well readable
- the ventilation outlets neither are blocked or blow onto the radio
- the radio does not hinder passengers in entering/leaving the vehicle
- the radio does not present a hazard to occupants in case of a collision (e.g. knee protection)

In order to avoid interferences/suceptibilities with/from other vehicular electric systems on board (ignition system, injection control system, ABS anti-skid, etc.), it is recommended to route the radio's power supply cables as far as possible away from these systems. Consult your car manufacturer's recommendations for best installation places.

The cradle should be mounted on a flat surface, large enough to accomodate the whole mounting plate. This will guarantee a solid hold and connection ease.

Use the supplied self threading screws and the template to install (refer to section 2.11) the cradle.

Free and good ventilation around the finned heat sink area is essential. There should be at least 20 mm free space to the rear, above and below for air circulation. Avoid installing the radio in the glove compartment if it will be used for long periods of time. Otherwise a heat build-up will cause a self-protecting reduction in rf-output power, which will impair the communication quality.

2.4 Power Supply

Please refer to installation diagram/pictures in sections 2.10.3 to 2.10.6.

2.4.1 Positive Lead

The positive lead (red) is to be routed directly from the battery's positive (+) pole and must include an in-line fuse (refer to section 2.4.3) within a fuseholder placed as close as possible to the battery.

Use existing feed-through holes where possible. If additional feed-through holes have to be made, they should be fitted with a rubber grommit or similar protection.

2.4.2 Negative Lead

The negative lead (black) must be connected on the shortest possible way to the chassis using the ring cable connector, and never be connected directly to the negative (-) pole of the battery. See the diagram 1 in section 2.10.3. Otherwise noise loops exist which will cause annoying noise effects in the radio (mainly alternator generated noise).

2.4.3 Fuse

The required fuse (value 8 A) to protect the supply line, is to be fitted as close as possible to the battery.

Insert the fuse only after completion and last check of the wiring, before the radio is to be taken into operation.

2.4.4 Wire cross section

For lead lengths up to 2,5 m use a wire with 2,5 mm² cross section. Longer leads will require 4 mm². Be aware that leads with insufficient cross section cause voltage brown-outs leading to severe malfunctions of the radio.

2.4.5 Lead routing

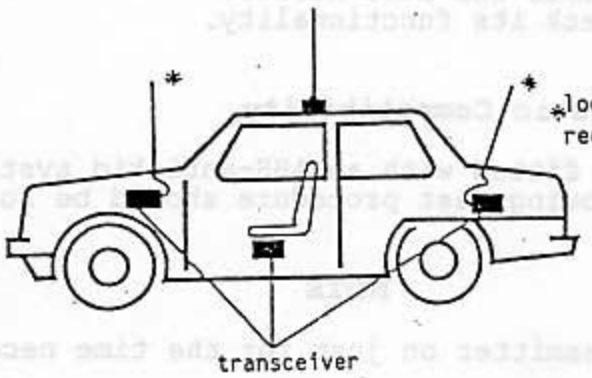
Keep leads such that a short and neat wiring installation is achieved. Pay attention not to lay the leads over sharp edges etc., which will end up in shorts through isolation damage. A good practice is the use of flexible plastic tube insulation.
When routing through feed-through holes, check for rubber grommit protection on sharp edges.

2.5 Antenna Mounting

The transmission quality of a radio link depends to a high extent on the antenna itself and its placement.

To reduce the rf-attenuation due to antenna cable losses, the length of this cable is to be kept as short as possible.
Avoid mounting the antenna close to the engine, as this may lead to interference.

The antenna outlet of the radio has been designed for a 50 Ohm nominal load. This nominal value will be presented by the antenna only if the operating frequency range is correct. A mismatch in antenna or antenna cable will cause a reduction in rf-output power.



Best results are achieved with an antenna mounted vertically in the centre of the roof area.

If mounting in the roof centre is not feasible, keep mounting holes at least 300 mm from the edge of the roof.

An antenna mounted on the wing will cause strong lobing of the radiation pattern with pronounced directional negative effects.

The mounting surface around the antenna base flange should be cleared from varnish/priming colour to ensure a satisfactory ground connection. Antenna efficiency depends largely on the quality of the ground contact.

Use only 50 Ohm coaxial cable of proven quality of the types RG-58/U, RG-223/U or similar types. If the antenna lead is longer than 5 m, RG-213/U is recommended.

Recapitulating:

- o Mount the antenna vertically and as high as possible
- o Avoid mounting the antenna close to the vehicle's engine
- o Keep antenna lead as short as possible

2.6 Handset/Microphone Mounting

Choose an appropriate place for the cradle. Mark the holes from the template (refer to section 2.12) or from the base plate.

2.7 External Speaker

The external speaker is mounted on a convenient spot and wired with a 2 x 0,75 mm² wire to the speaker connectors. Polarity of the cabling is irrelevant. Mark the holes from the template (refer to section 2.12) and refer to the installation diagrams in section 2.10.4 to 2.10.6.

2.8 Putting into Service

Re-check the wiring against possible errors.
Insert the radio unit into the cradle, until it locks in.
Insert the fuse (8 A) into the fuse holder.
Switch radio on and check its functionality.

2.9 Electromagnetic Compatibility

In case the vehicle is fitted with an ABS-antiskid system or electronic injection system, following test procedure should be followed:

NOTE

Turn the transmitter on just for the time necessary.

Test: Vehicle at rest, parking hand-brake pulled on.
Engine at high idle RPM. Activate transmission key (PTT). The ABS pilot lamp should not light up. The engine should keep running smoothly.

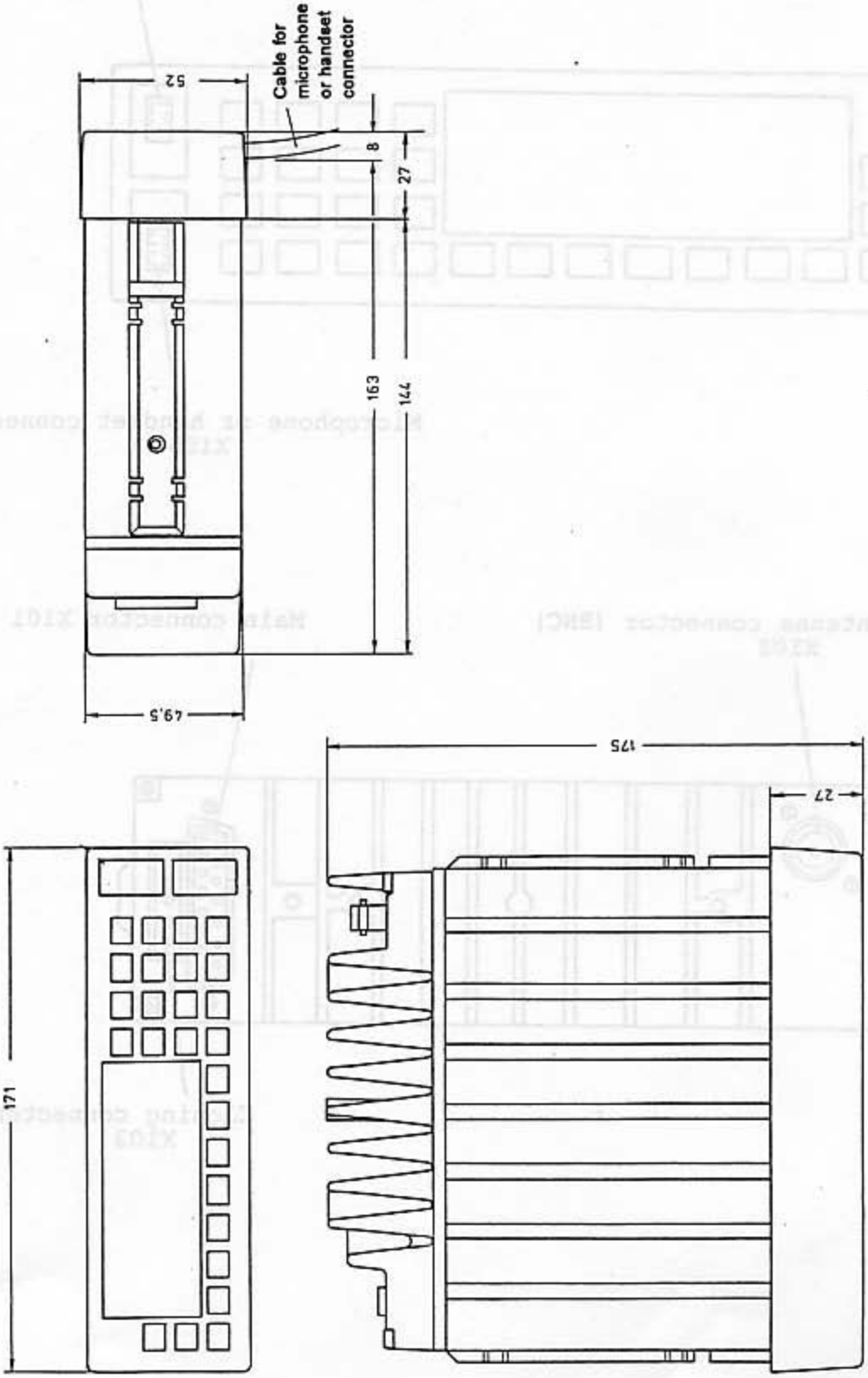
ATTENTION

If malfunction of brakes or ignition/injection is observed, re-route antenna cable, check antenna ground contact. In case of a plastic roof: make a ground plane by glueing a sheet metal foil (either 1/2 wavelength in diameter or side length) from the inside and connect it to the antenna base.

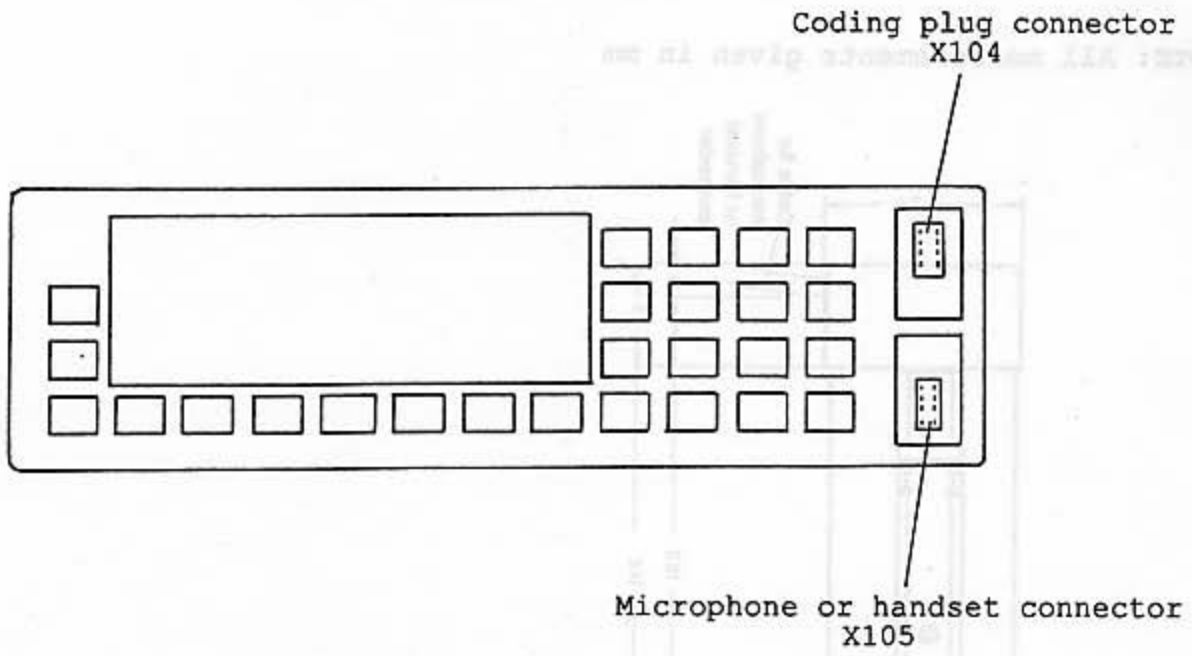
2.10 Installation Diagrams

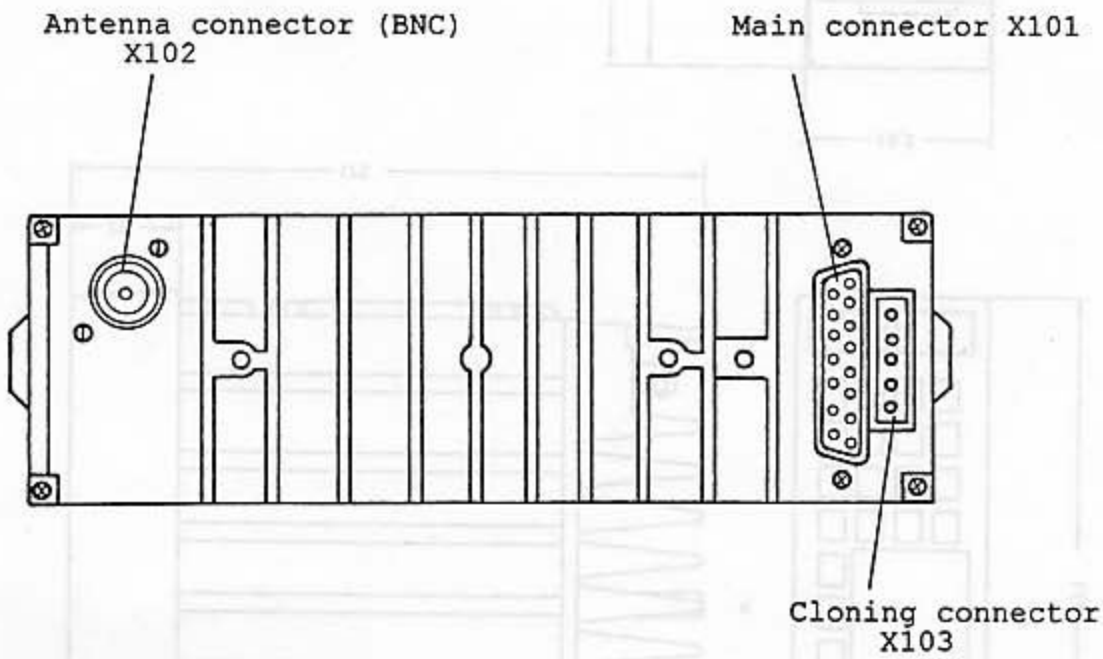
2.10.1 Measurement Drawing SE 550

NOTE: All measurements given in mm



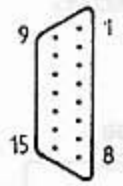
2.10.2 Overview External Connectors SE 550





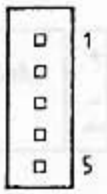
X101

Views of the connecting side



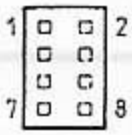
+UB	1	+ UB } battery voltage
+UB	2	+ UB } (prot. by external fuse)
LSP⊥	3	Loudspeaker 4 Ω
AS	4	Signalization, max. 12 V, 500 mA (BC817)
Res	5	Free
AF Ear	6	AF Earphone (600 Ω)
Gnd	7	Ground
Gnd	8	Ground
RF-10dB	9	RF power reduction - 10 dB
LSP~	10	Loudspeaker
PTT A	11	active = L
AFIN	12	AF 600 mV
Emerg.	13	Emergency contact, active = L
+9V	14	+ 9 V •→
Mic A~	15	Microphone 100 m V

X103



1	Cloning on
2	TxD
3	RxD
4	RTS
5	CTS

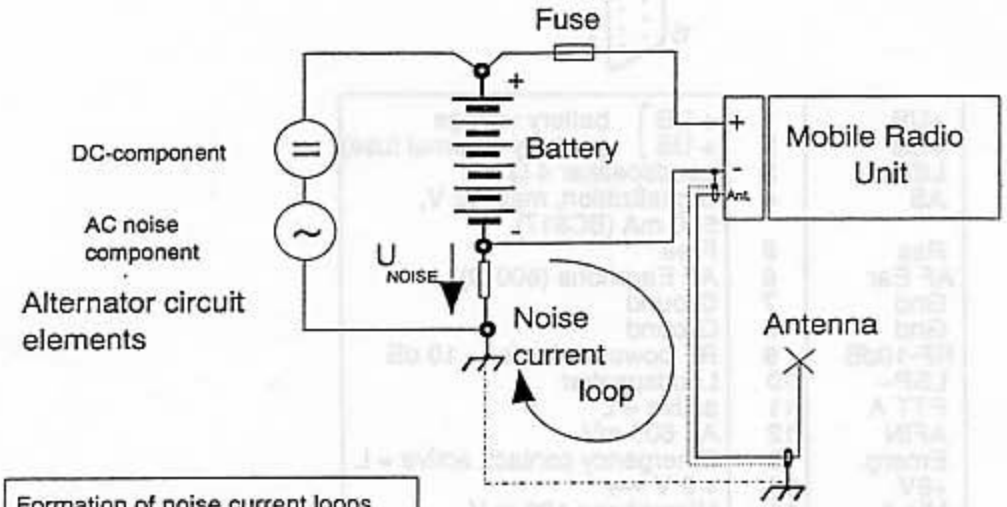
X105



Mic B~	1	Micro signal, 1 mV
HA	2	Cradle contact, unused
+9V	3	Micro supply, unused, input
PTT B	4	active = L
Ec~	5	Earphone
Mic ⊥	6	Ground micro
Gnd	7	General ground
Ec ⊥	8	Ground earphone

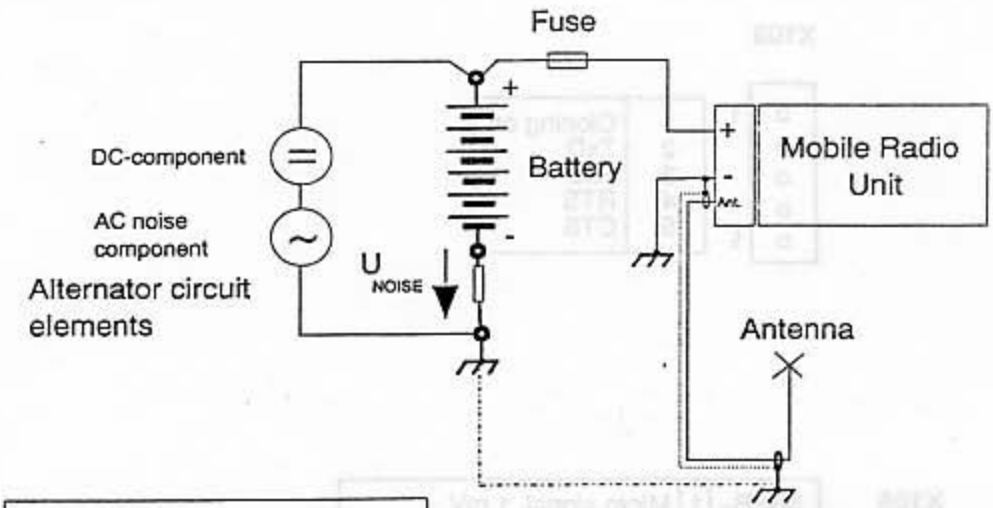
2.10.3 Cabling

Do NOT wire your radio this way:



Formation of noise current loops by direct connection to the negative battery pole

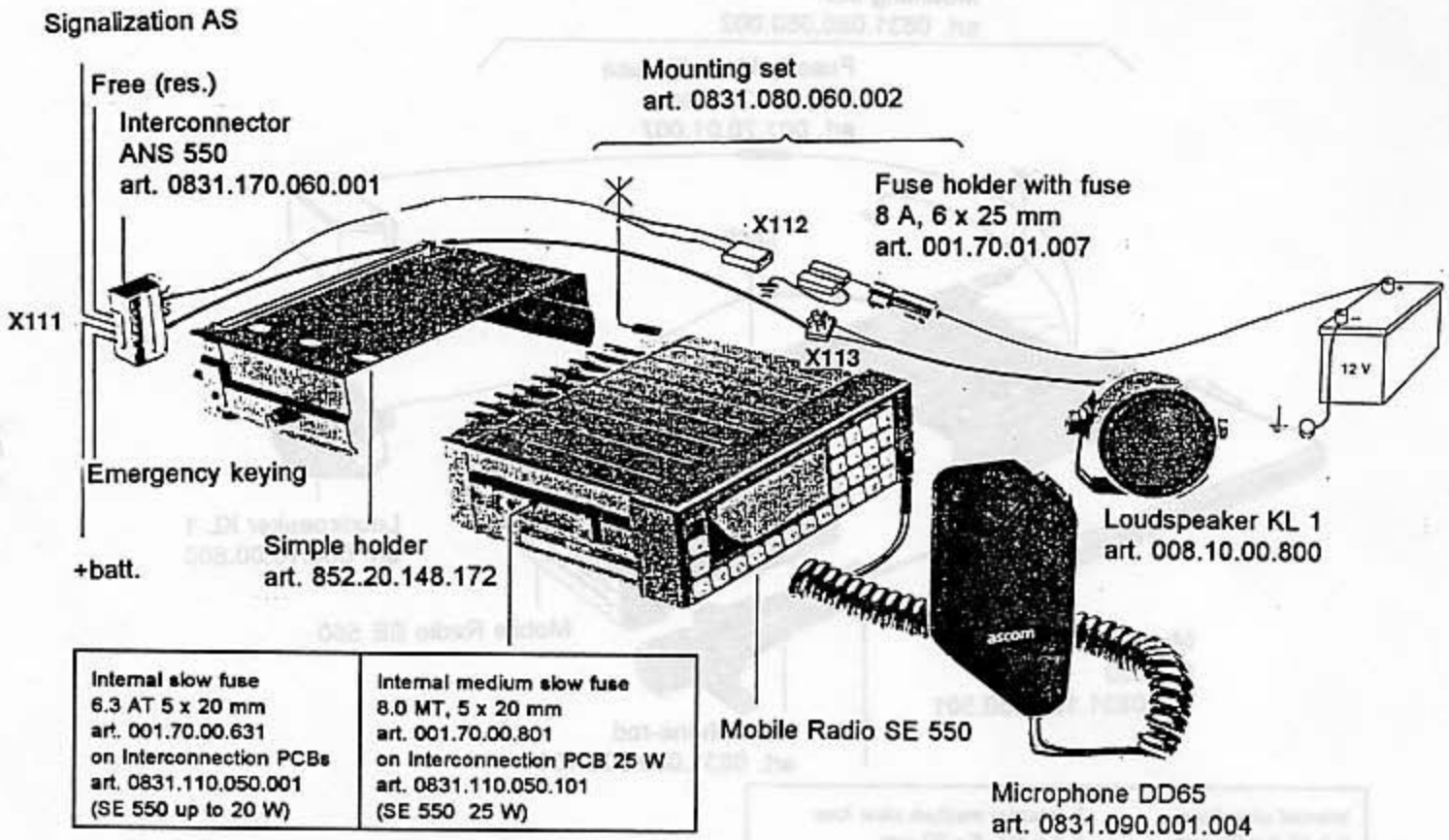
Recommended wiring:



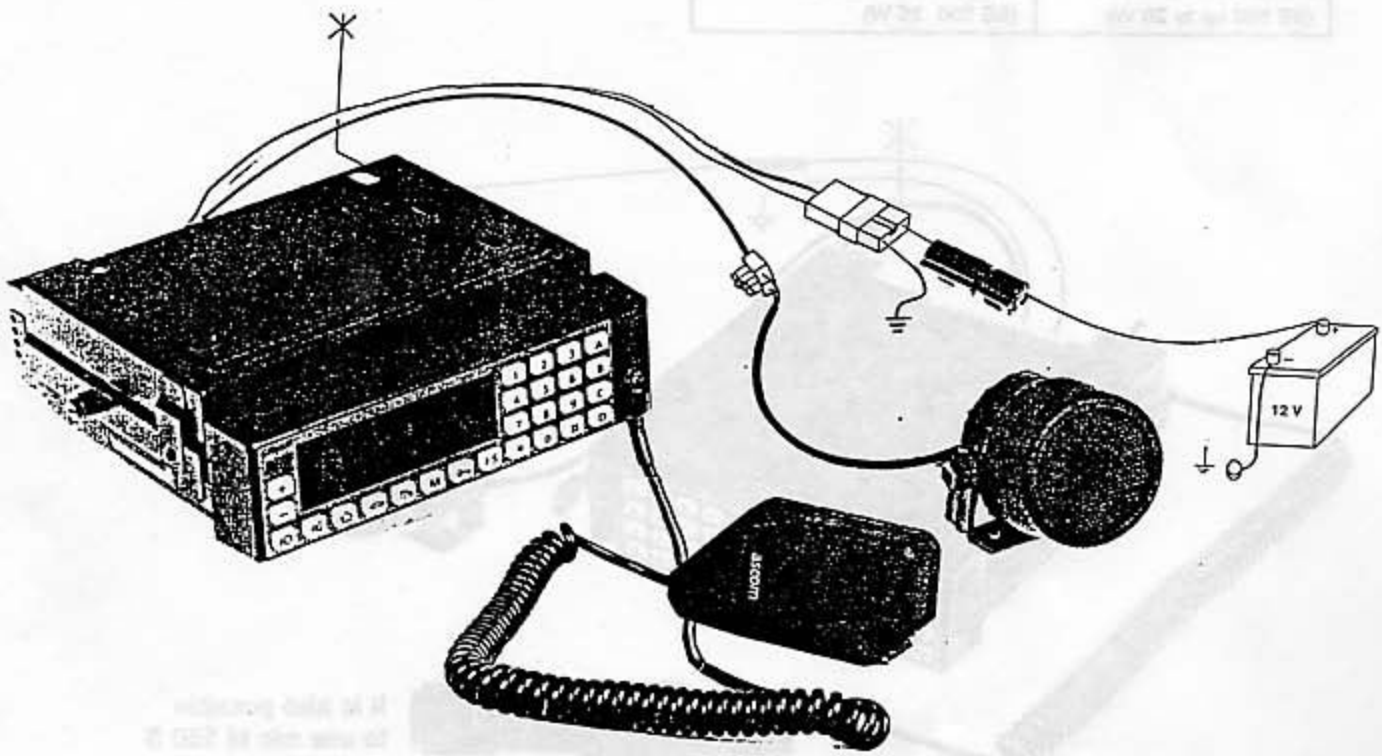
Correct connection of power supply wiring avoiding the formation of noise current loop

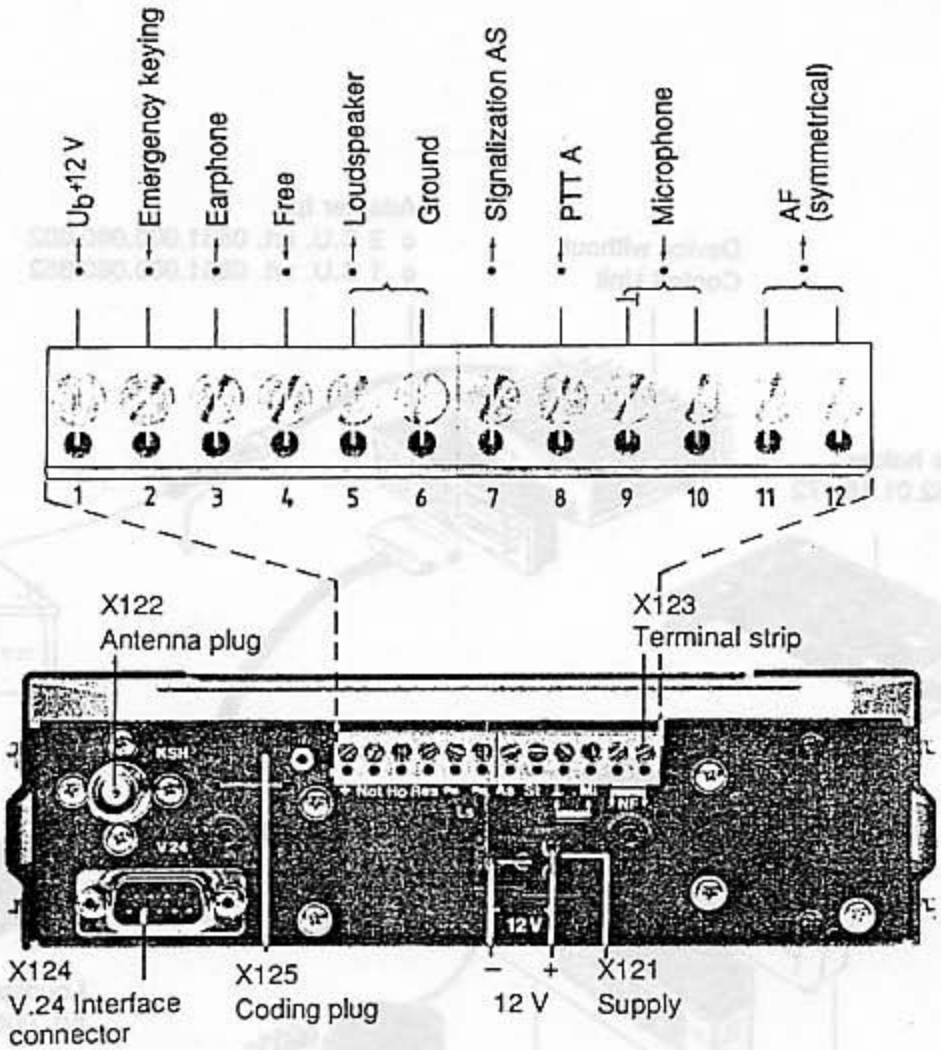
Diagram 1.
Noise loop in power leads

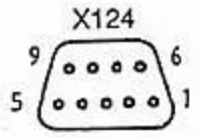
2.10.4 Installation on the Simple Mounting Holder



Internal slow fuse 6.3 AT 5 x 20 mm art. 001.70.00.631 on Interconnection PCBs art. 0831.110.050.001 (SE 550 up to 20 W)	Internal medium slow fuse 8.0 MT, 5 x 20 mm art. 001.70.00.801 on Interconnection PCB 25 W art. 0831.110.050.101 (SE 550 25 W)



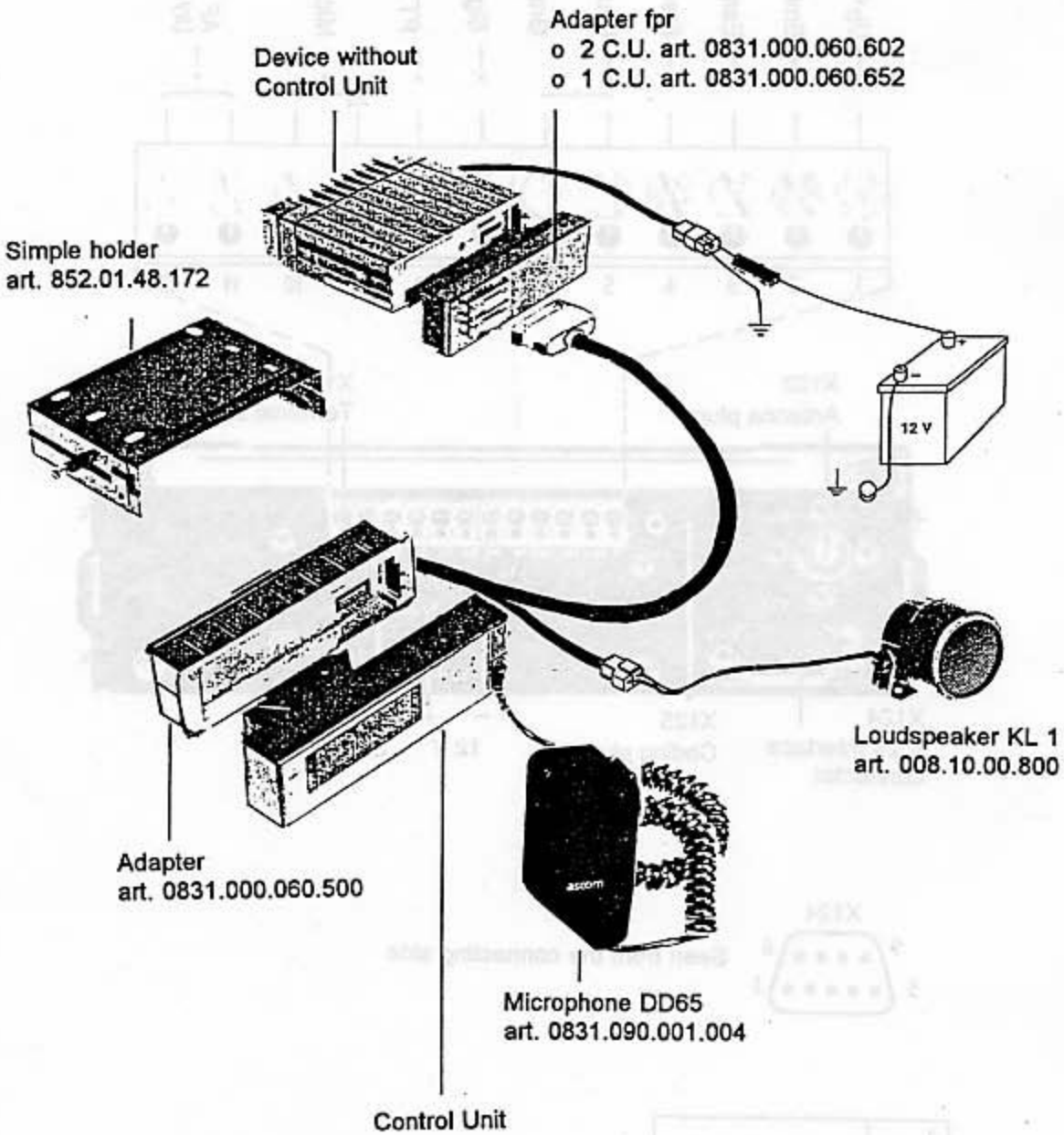


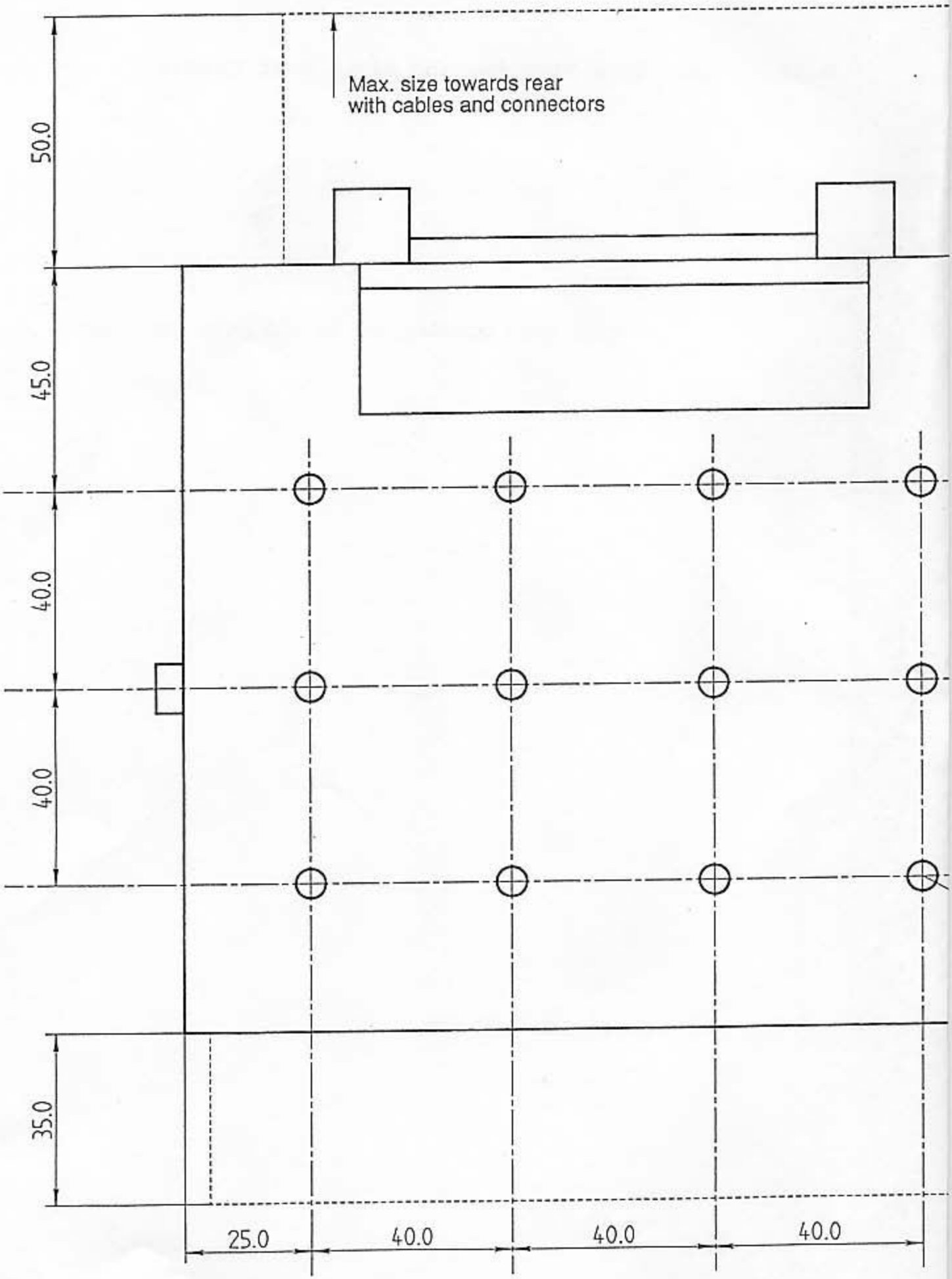


Seen from the connecting side

1	
2	TxD
3	RxD
4	+ UB
5	⊥
6	
7	CTS
8	RTS
9	

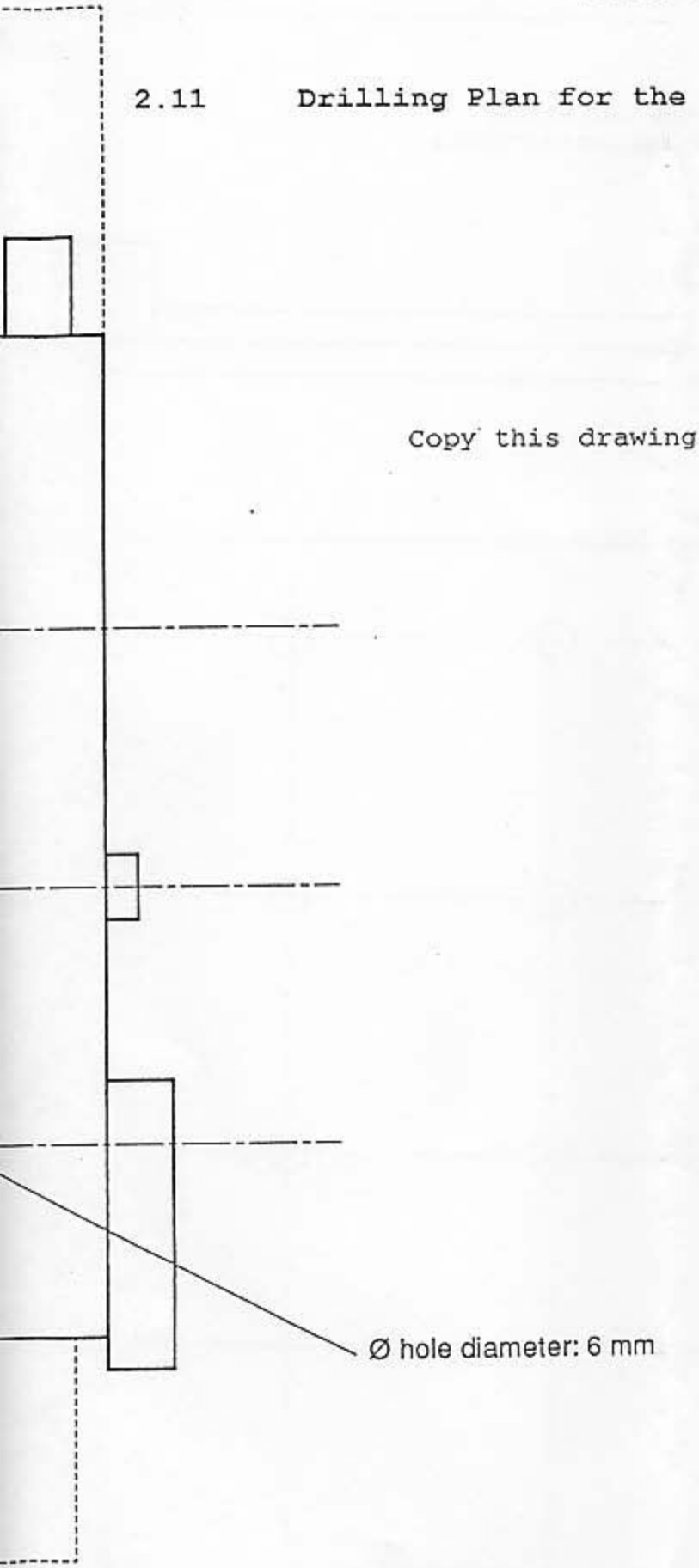
2.10.6 Version with Remote Control Unit

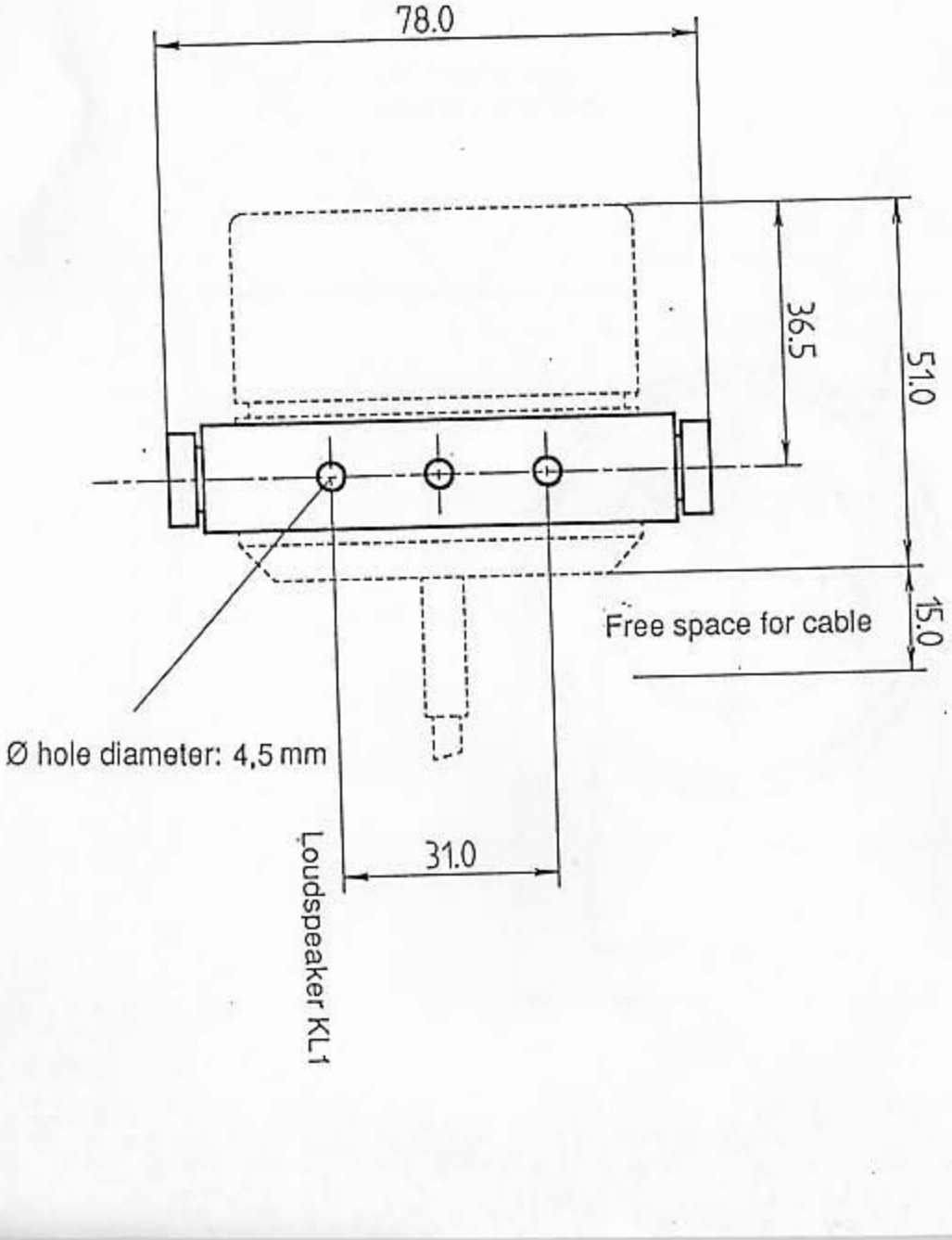


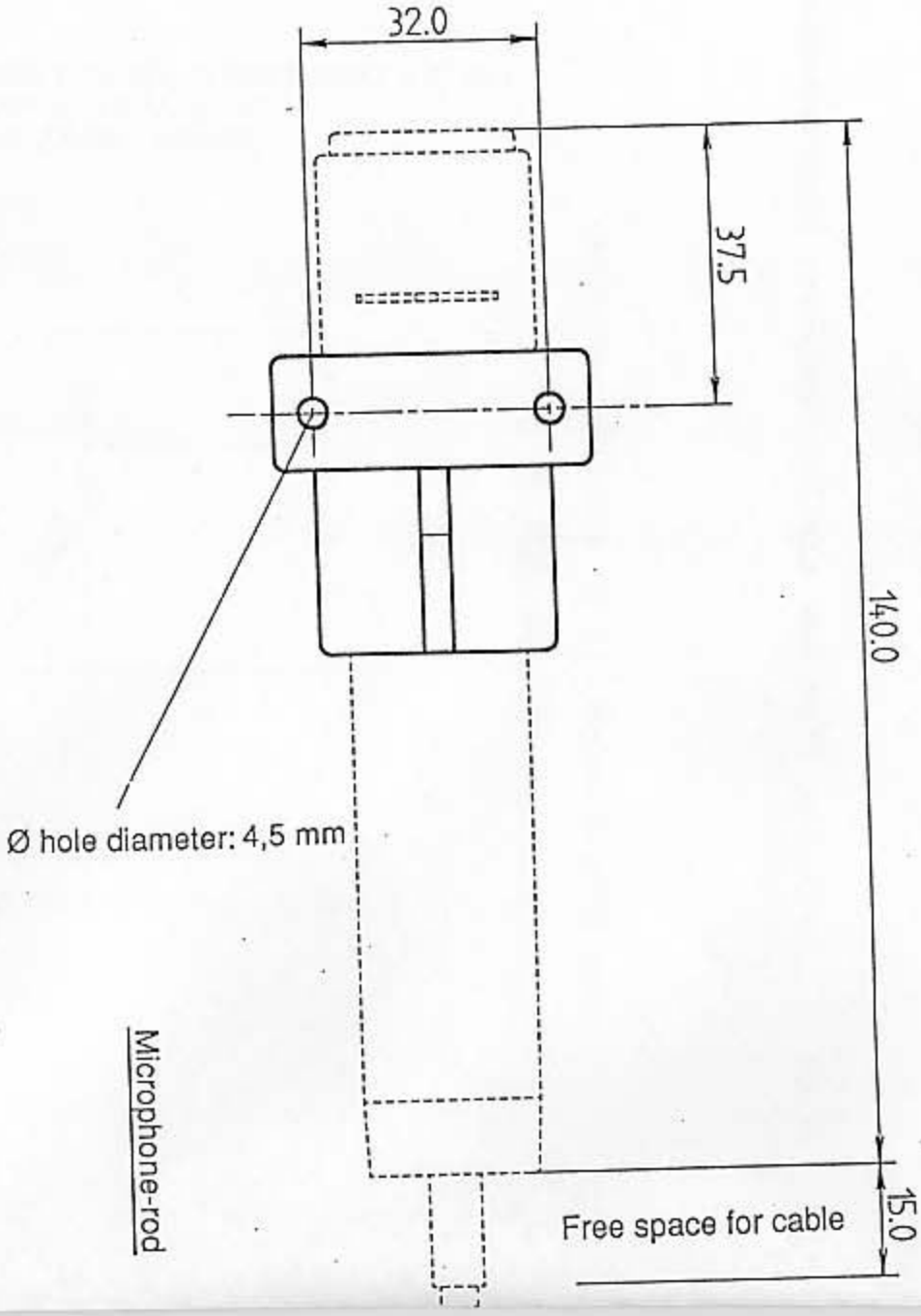

Max. size towards rear
with cables and connectors
50.0
45.0
40.0
40.0
35.0
25.0
40.0
40.0
40.0

2.11 Drilling Plan for the Radio Unit Cradle

Copy this drawing 1:1 to get hole patterns.



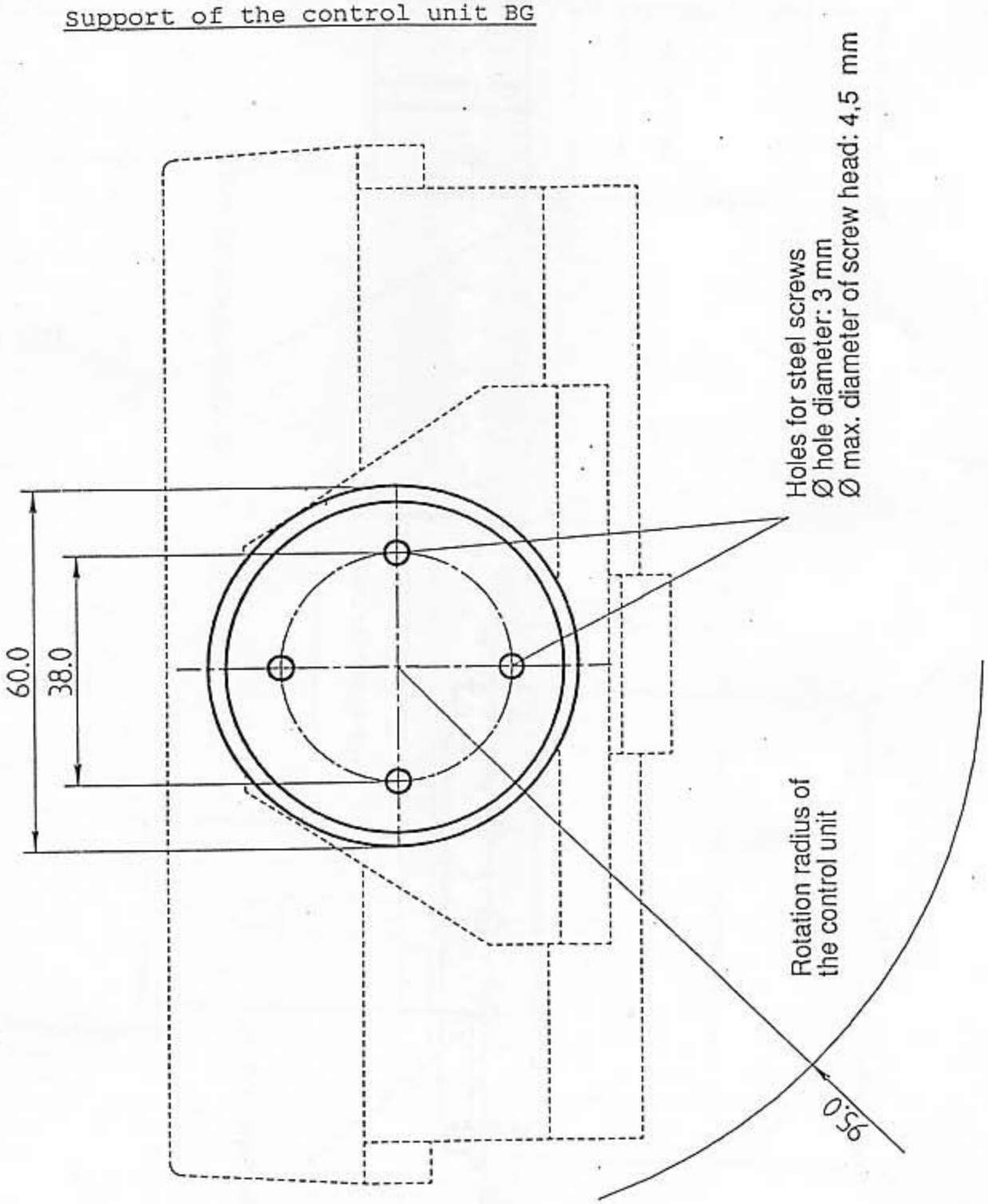

78.0
36.5
51.0
15.0
Free space for cable
Ø hole diameter: 4,5 mm
31.0
Loudspeaker KL1


32.0
37.5
14.0.0
Ø hole diameter: 4,5 mm
Microphone-rod
Free space for cable
15.0

2.12 Drilling Plan for the Loudspeaker, Microphone-Rod, Control Unit

Copy this drawing 1:1 to get hole patterns.

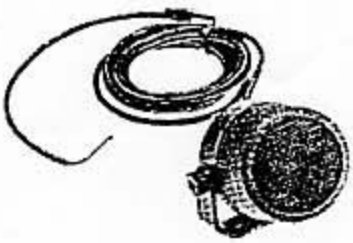
Support of the control unit BG



2.13 Accessories (Option)

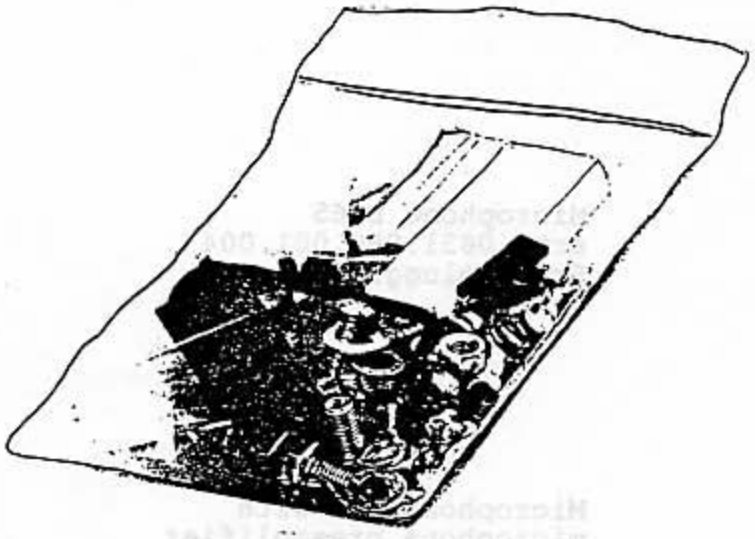
Microphone DD65
art. 0831.090.001.004
Front plugging

Microphone-rod with
microphone preamplifier
art. 0831.090.001.101
for connection at rear of
the plugging holder
art. 0831.190.060.501



Loudspeaker KL1
art. 008.10.00.800

Coding plug
art. 0831.000.000.941



Mounting set
art. 0831.080.060.002

Technical Handbook

SE 550-08-25-1

Part 3

Functional Description

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3 FUNCTIONAL DESCRIPTION

3.1 General

The Mobile transceiver SE 550-08-25-1 is controlled by two processors. One processor is in the transceiver and the other is in the control unit BG3.

Transmit and receive frequencies are generated with two independent synthesizers. The operating software is stored in an EPROM. Specific parameters depending on the carrier network are stored in a RAM and can be modified by way of the data or the coding plug.

3.2 Rx Branch

3.2.1 Rx Signal Path

(1) Signal Path in the RF Stage

See circuit diagram: receiver 0850.210.210.201A

The PLL receiver operates with a synthesizer of its own in accordance with the double super principle. The antenna signal arriving from the antenna socket passes through the antenna low pass (0832.300) and is passed through a three-pole plug connector to the RF stage (0850.210).

During transmission, + 9 V level is applied via L1. D1 becomes conductive and shorts the RX input.

No DC voltage is applied during reception. D1 is reverse biased and the signal path via L1 and C2 to the filter L2 is open.

The Rx signal is passed through the dual circuit band filter L2 (preselection), the first buffer amplifier stage V1 and the triple circuit band filter L6 (main selection) to the FET mixer V2.

After band selection and signal amplification (V1), the signal is converted to the first intermediate frequency (IF1) of 21.4 MHz with the FET mixer V2. The signal of the Rx oscillator is monitored and regulated by the synthesizer module and is frequency stabilized to a high precision. It is forwarded to the FET mixer V2 via LB.

The differential signal from the carrier and Rx oscillator frequency (Ist IF) passes through the quartz crystal filter Q1. The frequency response of the quartz crystal filter Q1 is influenced with L12 and L16 (wobbulation curve).

Via the IF stage V4, the IF signal is amplified and forwarded to the discriminator in the IF component J1.

The diodes D16 and D17 serve to limit the input signal for the IF component J1. The IF component J1 contains the second IF oscillator (with Q3 = 20.945 MHz or Q2 = 21.855 MHz), the second IF stage (with QF = 455 kHz ceramic filter) and the demodulator (phase shifter circuit L21, C63, R40).

The unfiltered AF signal is passed from the output of the discriminator (J1/9) via the high pass filter J7.II to the squelch submodule (0831.250) and via the AF low pass filter J7.I to the low pass Rx submodule (0831.290).

The squelch signal RSP is forwarded via the connectors B3/9 --> B3/3, and the AF is forwarded via connectors B3/8 --> B3/2, to the control assembly (0950.410).

(2) Signal Path in the Control Assembly

Refer to the trunking control circuit diagram 0850.410.210.003

On the control assembly (0850.0410), the prefiltered AF signal is picked up at B3/2 and is fed via a switchable analog active filter chain. Data signals at tapped at J2/1 and are made available to the FFSK evaluator on the MPT 1327 modem (0831.470).

The AF path can be deactivated at the analog switch J3/1. By way of J3/2 it is possible to feed signals into the receiver or loudspeaker when the receive path is deactivated.

J3/3 renders the demodulation characteristic switchable according to the deemphasis characteristic.

The signal is forwarded via B6/4 to the AF amplifier on the stabilizer board (0831.140) and is passed via the interconnection board (0831.110) to the unit's loudspeaker. With J26 on the control board the loudness level is determined.

3.2.2 Receiver Phase Control Loop

See circuit diagrams:

Receiver	0850.210.210.201A
RF control	0850.210.310.201B
VCR receiver	0832.510.410.002

The SE 550-08-25-1 has as its reference oscillator (TCX0 0833.560) a temperature-compensated crystal oscillator containing crystals of maximum quality. The TCXO generates the reference frequency. This is forwarded to Pin 1 of the synthesizer J3, which forms a PLL stage together with VCO RX, the buffer stage V8 and the frequency divider J2.

The synthesizer J3 receives the frequency information serially via J3/10, which is forwarded to J2/6 according to the predivider ratio. An analog setting voltage, which sets the frequency-defining phase circuit of the VCO RX to the corresponding frequency range, is generated by way of the digital/analog converter J4 (RF control assembly circuit diagram) and is forwarded via the OP amplifier J14 to the VCO RX (VCO Rx circuit diagram) and to the capacitance diodes D3, D5, D8 ... D15 and D45 (receiver circuit diagram) for selection tuning.

The VCO Rx supplies a precise local oscillator frequency. It is forwarded through the buffer stage V8, divided by 64/65 in the predivider J2 and is passed on to the main divider in the synthesizer J3. Here, in the phase comparitor it is compared against the reference frequency applied to J3/1 and supplied by the reference oscillator TCXO, which is also divided. In the event of a deviation from the TCXO frequency, an analog control frequency is generated that cancels the frequency deviation.

The processor on the control board (0850.410) supplies the digital necessary for the main divider in J3. The phase comparitor therefore generates a control voltage proportional to the phase deviation that readjusts the VCO Rx (MP 2).

3.2.3 VCO for the Receiver

Refer to the circuit diagram of the VCO Rx 0832.510.410.002

The function of the oscillator V1 is defined by the capacitive voltage divider C7 and C8. The setting voltage fed to P2 modifies the capacitance of D2...D4, thus modifying the phase condition. The generated frequency is coupled via the buffer stage V2.

The control at P3 generated with the PLL circuit modifies the capacitance of D5. This counteracts a frequency deviation.

3.2.4 Low Pass Rx

Refer to the low pass Rx circuit diagram 0831.290.410.001

The low pass Rx lends a specific frequency response characteristic to the AF in the demodulation path. The AF signal is fed to the impedance converter J1/II via the low pass filter R1/C1, R3/C2, J1/I and RC low pass filter R2/C3.

The Rx low pass board is soldered onto the RF stage board.

3.2.5 Squelch 12.5 kHz

Refer to the squelch 12.5 kHz circuit diagram 0831.250.410.101

The AF signal is applied via a band pass filter and the impedance isolation stage V1 to the filter chain containing D1 and D2 for rectification. At the output 7, the hysteresis amplifier J1/II switches the RSP criterion between high and low level. The hysteresis is defined by negative feedback with R11 and R12 (test shop value).

The squelch board is soldered onto the RF stage board as a subboard.

3.3 Tx Branch

3.3.1 Tx Signal Path

Refer to the trunking control circuit diagram 0850.410.210.003

Modulated analog voice signals, which are fed to the VOC TX (0832.510) via the modulation path (analog input filter chain) are sent, or data signals that are fed into the active AF filter path.

The microphone signal at B5/1 of the display board (0831.920) in the control unit is applied to B1/14 of the control board. The nominal deviation of the modulated carrier is set with the potentiometer R65. By means of software, the preemphasis characteristic can be switched over on the analog switch J23/1. The microphone or data signal is selected with J23/2. DTMF data (optional board) or FFSK data (MPT 1327 modem 0831.470) can be routed into the modulation path.

The respective signal is amplified in linear fashion with J22/2. The deviation is set with the potentiometer R111.

The operational amplifier chain and the analog switches receive idle operating potential U/2 from the impedance converter J25/2. Thus, the deviation symmetry can be influenced via the potentiometer R96.

3.3.2 Transmitter

See circuit diagrams:

Transmitter	0850.210.310.210C
RF control	0850.210.310.201B

Via the low pass Tx submodule (0831.280), the modulation signal is forwarded to the max. deviation regulator R150. It is then fed into the VCO for the transmitter (VCO TX 0832.510) for direct VCO modulation. Together with the synthesizer J12 and the predivider J11, the VCO TX constitutes a PLL stage which operates like the Rx oscillator PLL stage.

As in the case of the receiver, a setting voltage for coarse tuning of the VCO TX is generated by the digital/analog converter J13 and the amplifier J14 (circuit diagram: RF control). This is adjusted with R150.

V30 (circuit diagram: transmitter) serves to switch over the phase locked loop for swift latching or slow settling within the scope of modulation. The phased or non phased state of the PLL stage is interrogated via J12/7 (unlock Tx).

The modulated carrier is routed via the amplifiers V18, V19, V20 to the Tx module J16, where maximum power amplification is realised.

Power regulation for the Tx module J16 is realised by way of the differential amplifier V26 and V27. The current level of the differential stage is adjusted with R117 (power adjustment).

By means of software, the Tx power can be switched in a maximum of three stages at the base of V26 (see RF control J15, pins 11, 12).

3.3.3 VCO for Transmitter

See circuit diagram of VCO Tx 0832.510.410.502

The frequency of the oscillator V1 is defined by the capacitive voltage divider C7 and C8. The setting voltage fed to P2 alters the capacitance of D2...D4 and therefore alters the phase condition. The generated frequency is coupled out via the buffer stage V2.

The AGC voltage at P3 generated with the PLL circuit alters the capacitance of D5. This counteracts a frequency deviation.

The modulation signal for VCO modulation is fed via P1.

3.3.4 Low Pass Tx

See circuit diagram: low pass Tx 0831.280.410.002

The low pass Tx lends a specific frequency response characteristic to the AF in the modulation path.

The AF signal is fed via the input amplifier J2/II the and active low pass chain of the fourth order, which consists of the OP amplifiers J2/I and J1/1.

The low pass Tx board is soldered as a subboard onto the RF stage board.

3.4 Reference Oscillator TCXO

See circuit diagram TCXO 0833.560.410.001

The temperature-compensated reference oscillator is soldered onto the RF stage board as an independent shielded submodule.

The binary counter in the counter component J1 generates an exact 400 kHz signal from the 6.4 MHz reference signal of the oscillator V1. This is made available to the synthesizers of the two PLL stages in the Rx and Tx paths.

The board also contains a voltage cascade to generate a 24 V DC voltage. This produces an extended setting voltage range for the VCOs or for input selection.

3.5 Antenna Low Pass

See circuit diagram: antenna low pass 0832.300.410.002

On reception, the carrier signal arriving from the antenna socket passes through the passive LC low pass filter and is made externally available at B2.

The signal path is reversed in the transmit mode. Harmonics are cut off by the LC filter chain.

The antenna low pass is accommodated in a shielded housing.

3.6 Interconnection Board 25 W

See circuit diagram: interconnection board 0831.110.410.001

The 15-pole central connector B1 and the five-pole data connector B2 for cloning are attached on the interconnection board.

Signal separation to the control and RF stage boards takes place on the interconnection board.

The $+U_B$ line is fused with the fuse link F1.

3.6.1 Cloning

Via the connector B2, which is accessible on the rear panel, data, including cloning data, can be exchanged with an external data transceiver. The external data transceiver is then a PC with which interactive parameter programming (IPP) is realised, or with which a different Se 550 is cloned.

3.7 Control

See circuit diagram: trunking control 0850.410.210.003

3.7.1 Processor with Memory

The microprocessor J11 is clocked by an 11.0592 MHz crystal. It works together with the ASIC J12 for the addresses and with the memory components J13 (EPROM) and J14 (RAM) for process data transfer. The ASCI 12 generates frequency signals with defined timing conditions for different signalisation tasks.

3.7.2 Process Periphery

The operating voltage of the processor is monitored and the defined power on reset is generated with J7. The EEPROM J8, through which data can be output serially, offers an additional memory option.

The enable signals of the shift registers (type 4094) are controlled in the unit with J10 as a 1 out of 10 decoder.

J17 and J18 are further interfaces for data poling. The data is applied in parallel to the respective component and is poled serially. Status information and system data are acquired in this way (ON functions, RSP etc.). The components J9, J5 and J6 are serial input, parallel output shift registers for process data transfer.

The volume of the AF can be set in five levels. This is done with the analog multiplexer J26 and the shift register J6.

3.7.3 MPT 1327 Modem

See circuit diagram: MPT 1327 modem 0831.470.410.001

With its 1200 baud FFSK modem J1, the MPT 1327 modem (0831.470) enables processing of the special data format confirming to MPT 1327 for trunking operation.

The level of the two sinusoidal FFSK key frequencies (1200/1800 Hz) is set to 0 DBM with R2.

3.7.4 Tone Signalisation

Tone signalisation is realised by the tone multiplexer J20/2. From here, the generated signals can be passed through J20/3 and the amplifier J25/1 into the modulation path (transmitter) or into the AF branch (receiver path).

3.7.5 Operating Data Backup (option)

As an option, a lithium battery can be installed on the stabilizer board (0831.140). The lithium battery applies a back up voltage to J14 (RAM) via B2/4. This ensures that the current operating information remains stored even when the unit is removed.

3.7.6 Temperature Monitoring

In the event of inadmissible overheating, the unit is switched off with V8 and the PTC resistor R55.

3.7.7 Center Voltage

The center voltage (+U/2) required for functioning of the filter chains is derived from +9 V with the voltage divider R94, R95, R96. It is available at the output of the impedance converter J25/2. The deviation symmetry is set with R96.

3.8 Stabilizer Board

See circuit diagram: stabilizer board 3 W 0831.140.310.002

+9.3 V stabilisation

On the board, a stabilized voltage of +9.3 V is derived from the operating voltage +UB and is made available at B3/6. The stabilisation circuit is switched on/off with ON signal at B6/2.

+5 V generation

A voltage of +5 V is generated with J3 from the +9.3 V voltage and is used to power the digital ICs via B6/1.

Loudspeaker amplifier

The AF for the loudspeaker is fed to B6/4 and is amplified with J1.

Controlled by the processor, the loudspeaker can be switched on/off via the input B6/3. When the loudspeaker is ON, +UB is switched to the AF amplifier J1 via V3 and the Darlington stage V1, V2.

Lithium battery (option)

As an option, a lithium battery can be installed on the stabilizer board.

The lithium battery generates a voltage for powering the RAMs J14 on the control board (0850.410). This guarantees that the operating data stored in the RAM will not be destroyed in the event of a power failure or removal of the unit.

3.9 Control Unit BG 3

3.9.1 General

The control unit is available with different operating interfaces (key pad) depending on the application.

Unit and user system information is visualised on the two-line vacuum fluorescent display and on the status symbol displays.

The control unit is controlled by a microprocessor on the display board.

3.9.2 Key Board

See circuit diagram: key board 0831.930.310.001

The statuses of the coded keys are interrogated by the microprocessor of the display board via the connector B2. The microprocessor sends serial display data via B1 and the shift registers J1 and J2. The LEDs D27...D42 for illumination of the symbols are controlled via the outputs of the shift registers.

The footer transistor V2 measures the ambient luminous density and controls the brightness of the display unit.

Switched by V1, the LEDs D1...D26 illuminate the key pad on the control unit.

The "On" key T26 serves to switch the unit on/off.

3.9.3 Display Board

See circuit diagram: display board 0831.910.110.005

The connectors B1 and B2 connect the display board to the key board, B4 to the coding plug, B5 to the microphone and B3 to the converter board.

A microphone amplifier (J101/I) is connected between B5/1 and B3/18 and can be rendered inactive by jumpers (Br9) whenever the microphone level requires no further AF amplitude boosting.

The mask-programmed microprocessor J1 is the central control for the control unit. It is clocked by an 11.059 MHz crystal.

The soldered jumpers B6, B7, B8 at J1/4, 5, 6 set the status of the control unit. A power on reset at J1/10 guarantees that the processor will function faultlessly even after a drop in the operating voltage.

The display data for the vacuum fluorescent display H1 is read into the display drivers via the port lines P0.1...P0.7 and P3.6 of J1 and the 8-bit parallel-to-serial shift register J3.

With its frequency, PLL AF oscillator J2 synchronises data acceptance of the display drivers J7 and J8.

Via the data lines P3.0 and P3.1 (RxD, TxD), the control unit's processor communicates with the control processor on the control board (0850.410)

3.9.4 Converter Board

See circuit diagram: converter BG3 0831.910.310.203

The converter board supplies the necessary operating voltages for the display board.

A voltage of +5 V for the logical ICs is generated from +9 V by means of the voltage stabilizer J1.

To provide a display, the vacuum fluorescent display on the display board requires a +60 V anode voltage. To be able to separate electrons from the grid (cathode), an AC heating voltage (FF) also has to be applied. A half sinusoidal voltage is tapped from the output at D4 and is forwarded to the comparitor J2/1 via the voltage divider R17 and R8. J2/1 switches its output to high or low potential and charges or discharges C7. The changing level causes J3 to trigger the negative feedback stage V3, V8.

V5 as a switching transistor for the transformer T1 operates in the cycle of the switching frequency. C13 and R16, as well as C9, protect the circuit against retroactive effects of the transformer T1. J2/II monitors the 9 V line and prevents triggering of the display in the event of voltage errors. The 9 V operating potential in the SE unit is smoothed with the T network L1, L2 and C4.

3.9.5 Coding Board 2 kBytes

See circuit diagram: coding board 2 kBytes 0831.940.410.001

The coding board is located in the coding plug. It is equipped with the EEPROM J1. The data for operator-specific identification and the channels enabled for the data are stored here. They are read out by the processor on the display board of the control unit. This identifier can be read into the coding plug using a corresponding EEPROM programmer.

The coding plug is plugged into the right of the control unit by way of the microphone plug.

3.10 Interconnector SE 550

See circuit diagram 0831.170.410.002

The interconnector SE 550 is connected to the 15-pole connector X101 located on the rear side of the transceiver SE 550. It provides the following external interconnections:

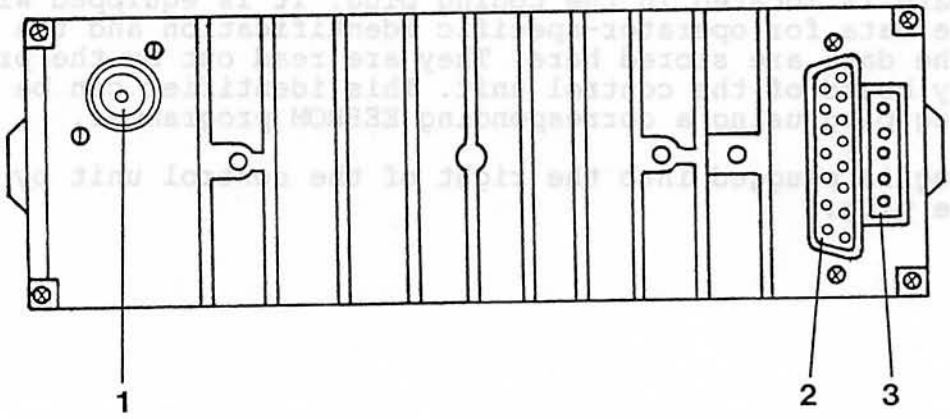
- battery voltage supply +UB 12 V (X4, X5)
- loudspeaker 4 Ω (B3)
- emergency keying by external PTT, active = low (B2/4)
- external signalization, max. 12 V/ 500 mA (B2/2)
- voltage output +UB 12 V (B2/3)

The line from B1/5 to B2/1 is a spare line. The diode D1 protects for confusing the poles.

3.11 External Interfaces (Pin-Assignment of Connectors)

The transceiver SE 550 provides the following connectors for external interconnections, given in sections 3.11.1, 3.11.2.

3.11.1 Transceiver Rear Side



1 X102 Connector BNC, 50 Ω
Antenna connector

2 X101 Connector 15-pole, D-Sub,
Main connector to interconnector SE 550 0831.170...

3 X103 Multipoint connector 5-pole
Cloning connector

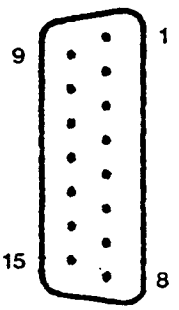
X102 BNC connector

BNC connector B2 located on antenna low pass 0831.300...
Impedance 50 Ω

X101 Connector 15-pole, D-Sub

Filter connector B1, 15-pole, D-Sub, located on interconnection board 0831.110...

X 101

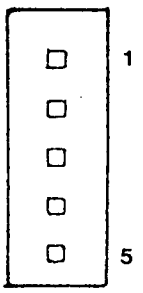


Pin	Designation	Explanation
1	+UB	+UB] Battery voltage
2	+UB	+UB] protected by external fuse
3	LSP ⊥	Loudspeaker 4 Ω
4	AS	Signalization, max. 12 V, 500 mA (BC817)
5	Res	Spare
6	AF Ear	AF earphone (600 Ω)
7	Gnd	Ground
8	Gnd	Ground
9	RF -10dB	RF power reduction -10 dB
10	LSP~	Loudspeaker
11	PTT A	Tx key PTTA, active = low
12	AFIN	AF 600 mV
13	Not	Emergency keying, active = low
14	+9V	+9 V •→
15	Mic A~	Microphone 100 mV

X103 Multipoint connector 5pole

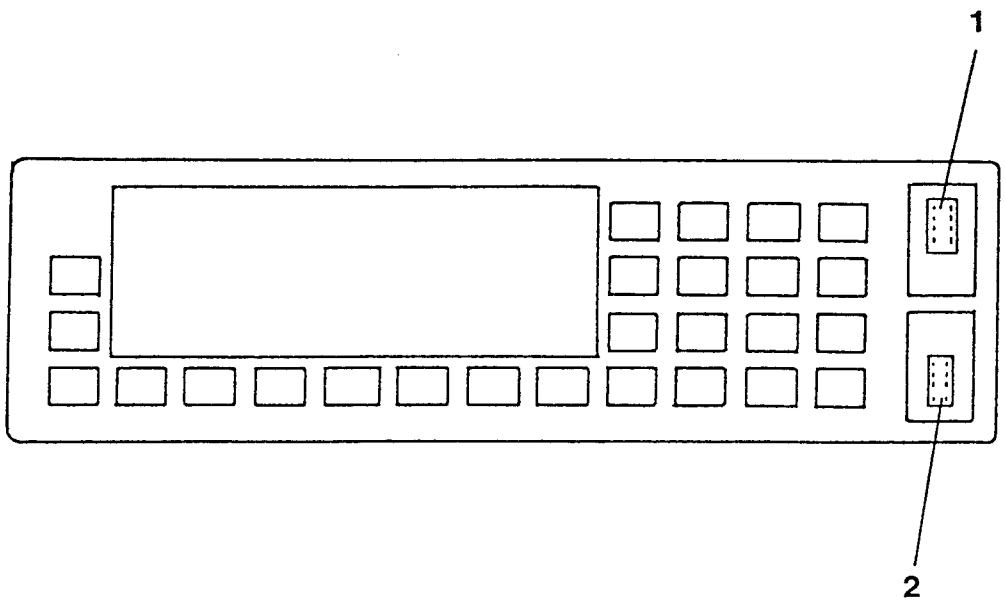
Multipoint connector B2, 5pole, located on interconnection board 0831.110...

X 103



Pin	Explanation
1	Cloning on
2	TxD
3	RxD
4	RTS
5	CTS

3.11.2 Control Unit, Front Side



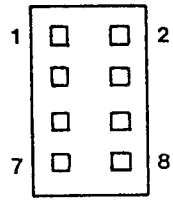
1 X104 Multipoint connector 8-pole
Coding plug connector 0831.000.000.941

2 X105 Multipoint connector 8-pole
Microphone or handset connector

X104 Multipoint connector 8-pole

Multipoint connector B4, 8-pole, located on display board 0831.920...

X 104

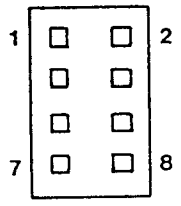


Pin	Designation	Explanation
1	DI	Data in
2	5V	5 V operating voltage
3	EN	Enable
4	DO	Data out
5	CL	Clock
6	⊥	Ground
7	-]	ON/OFF
8	-]	

X105 Multipoint connector 8-pole

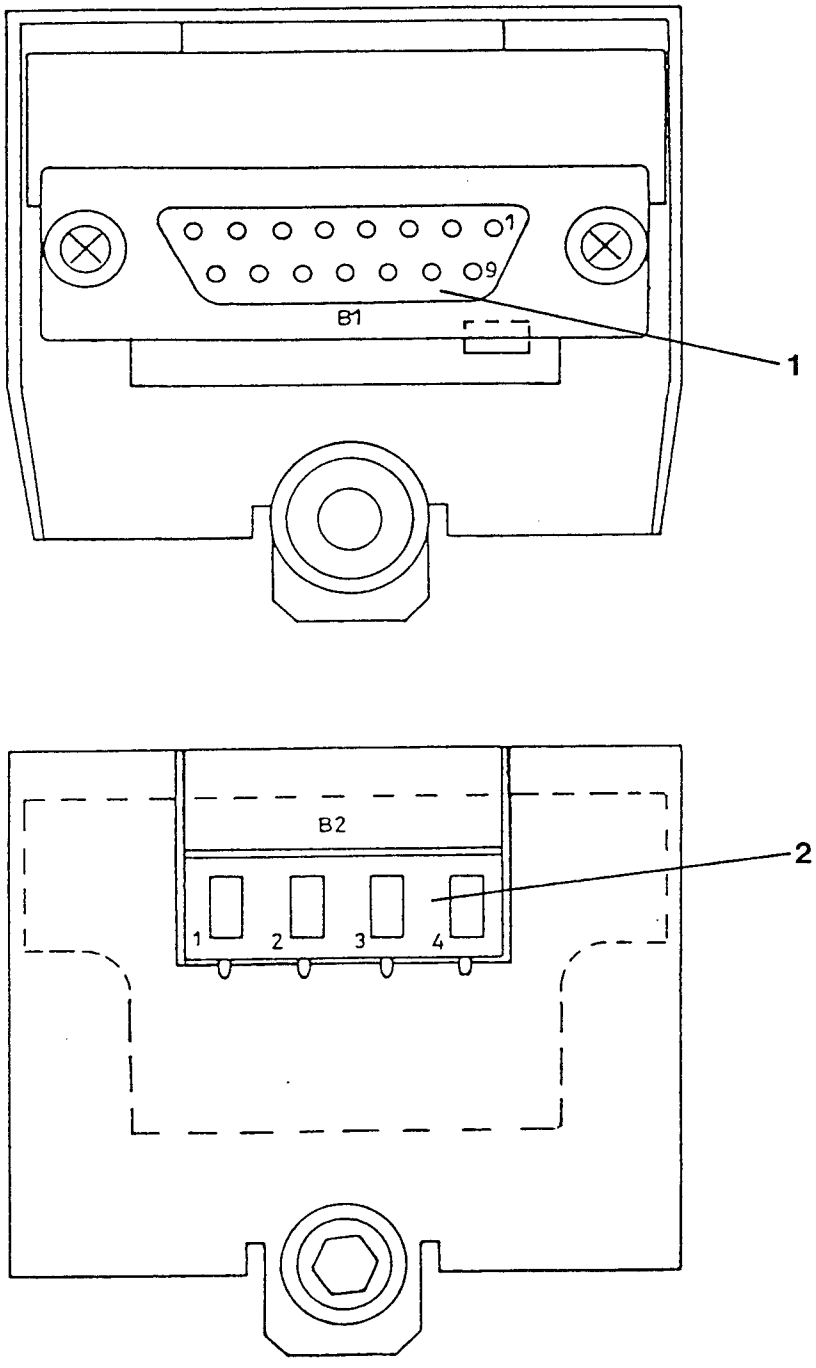
Multipoint connector B5, 8-pole, located on display board 0831.920...

X 105



Pin	Designation	Explanation
1	Mic B~	Microphone signal, 1 mV
2	HA	Cradle contact, not used
3	+9V	Microphone supply input, not used
4	PTT B	Tx keying PTTB, active = low
5	Ec~	Earphone
6	Mic ⊥	Ground microphone
7	Gnd	General ground
8	Ec ⊥	Ground earphone

3.11.3 Interconnector SE 550

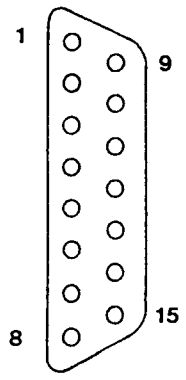


1 B1 Connector 15-pole, D-Sub
Transceiver connector

2 B2 Terminal strip 4-pole (X111)
Signalization, +UB, emergency keying

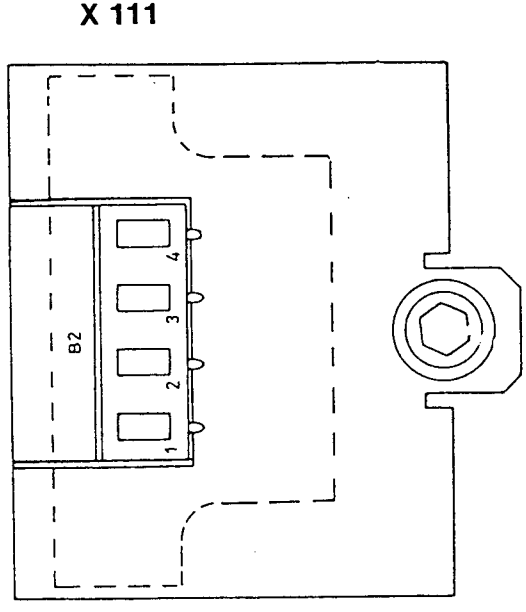
B1 Connector 15-pole, D-Sub

B1



Pin	Designation	Explanation
1	+UB	+UB] Battery voltage
2	+UB	+UB] protected by external fuse
3	LSP ⊥	Loudspeaker 4 Ω
4	AS	Signalization, max. 12 V, 500 mA (BC817)
5	Res	Spare
6	AF Ear	AF earphone (600 Ω)
7	Gnd	Ground
8	Gnd	Ground
9	RF -10dB	RF power reduction -10 dB
10	LSP~	Loudspeaker
11	PTT A	Tx key PTTA, active = low
12	AFIN	AF 600 mV
13	Not	Emergency keying, active = low
14	+9V	+9 V •→
15	Mic A~	Microphone 100 mV

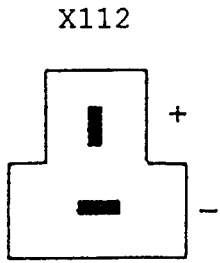
X111 Terminal strip 4-pole (B2)



Pin	Designation	Explanation
1	Res	Spare line
2	AS	Signalization, max. 12 V, 500 mA
3	+UB	Battery voltage
4	Not	Emergency keying, active = Low

X112 Flat connector 2-pole (X5)

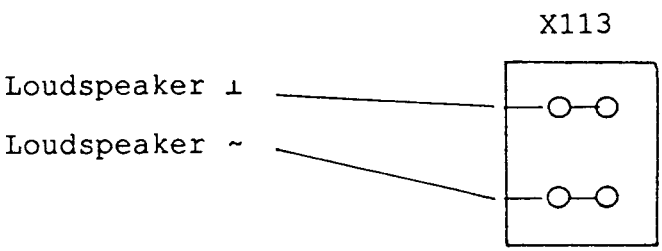
Battery voltage supply connector +UB, +UB protected by external fuse



Pin	Explanation
+	+UB Battery voltage, protected by external fuse
–	Ground

X113 Clamp 2-pole (B3)

Connection to loudspeaker



Technical Handbook

SE 550-08-25-1

Part 4

Maintenance,

Disassembly and Reassembly

TABLE OF CONTENTS

4 MAINTENANCE, REMOVAL AND INSTALLATION OF MODULES

The unit may only be removed, serviced and dismantled by service personnel trained on the SE 550.

4.1 Maintenance and cleaning

The SE 550 requires no special care and maintenance. Clean the unit at regular intervals, which depend on the operating and environmental conditions, and check its outer condition. Neither petroleum or solvents may be used to clean the unit.

Remove loose dust with a soft dusting brush. If required, clean the outside of the unit with a slightly moistened lint-free soft cloth. Make sure that no moisture penetrates into the inside of the unit. Dry cleaned moist parts with a dry lint-free cloth.

The connectors must not show any corrosion. If corrosion of the connectors is suspected, plug them in and unplug them several times to remove any oxide residues. Only use contact cleaning agent such as Kontakt 60 for cleaning.

4.2 General Notes on Repair

(1) Handling PC Boards

Excessive bending of PC boards leads to hair cracks, which are often very difficult to localise. Therefore, handle PC boards with care. Measurement cables must not be soldered onto PC board conductors.

(2) Soldering

Soldering on PC boards must be limited to a minimum. A temperature-controlled miniature low voltage soldering arm should be used. The soldering temperature must not be higher than 350 °C.

C-MOS and SMD components should only be soldered by service personnel trained appropriately and acquainted with the soldering techniques involved.

(3) C-MOS components and FETs

C-MOS components and field effect transistors may be destroyed by static charges.

This can be prevented with a few precautionary measures:

- Earth tools when carrying out repairs
- Do not remove or install PC boards while the power supply is activated
- Do not apply external control signals without activating the power supply

(4) SMDs

SMDs on PC boards must only be desoldered and soldered in by appropriately trained service personnel using the necessary soldering tools.

The instructions given by the manufacturer/distributor must be observed precisely when handling soldering tools. Only in this way can damage to the surfaces of PC boards be avoided.

(5) Disposal of Devices, Modules and Components

Devices, modules and components that have become useless or have been scrapped must be disposed of properly.

They must not be disposed of in normal domestic refuse!

4.3 Control Unit (Figure 4-1, 4-2)

1. Remove the coding plug (Figure 4-2/3) and the plug of the microphone (2) after undoing the hexagon socket screw (1).

2. Undo the captive hexagon socket screw (1) underneath the coding plug (see also Figure 4-1).

3. Swivel the right side of the control unit by 30 ° and unlatch the control unit to left.

4. Installation: before installing the control unit, the two guide rails (16) along the groove must be slid open. Their positions are defined by holes.

   Install the control unit by first of all inserting the pegs in the corresponding side on the left of the front panel. Then carefully plug in the plug. Tighten the hexagon socket screw (1).

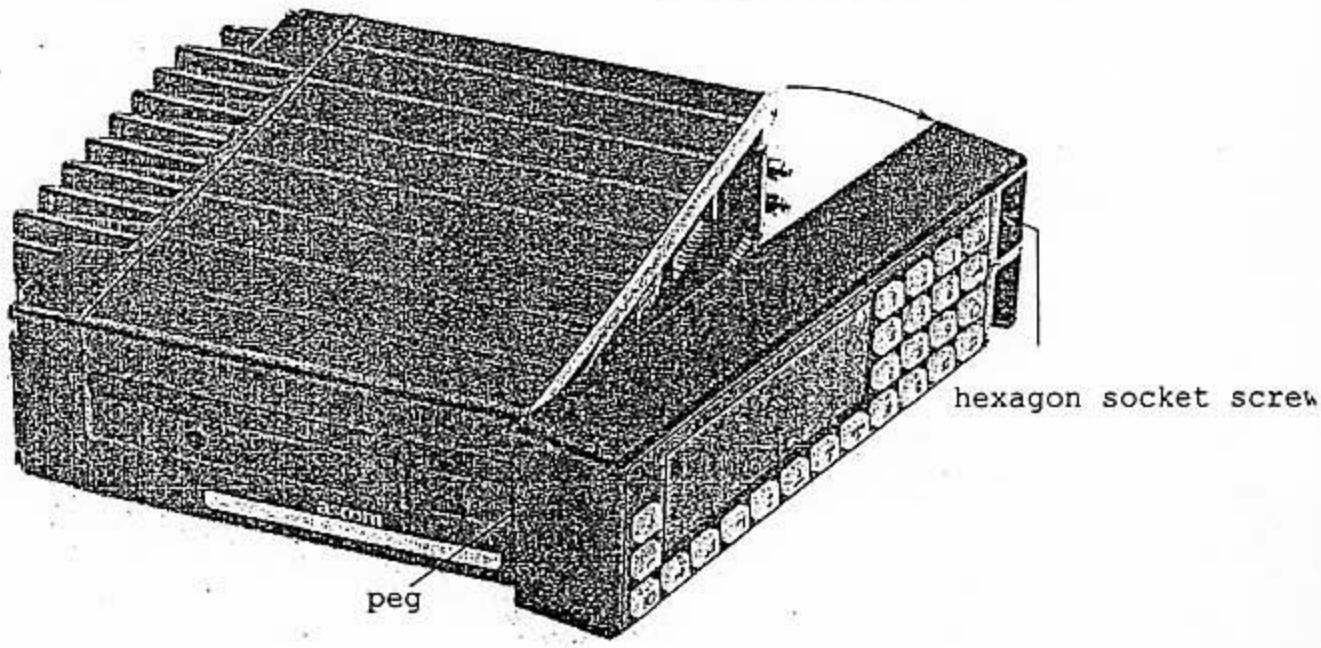


Figure 4-1 Disassembly control unit

4.4 Control Assembly (Figure 4-2)

1. Remove the control unit as described in Section 4.3.

2. Unscrew the four countersunk screws (Figure 4-2/17) and carefully pull the control assembly out of the two guide rails in the housing.

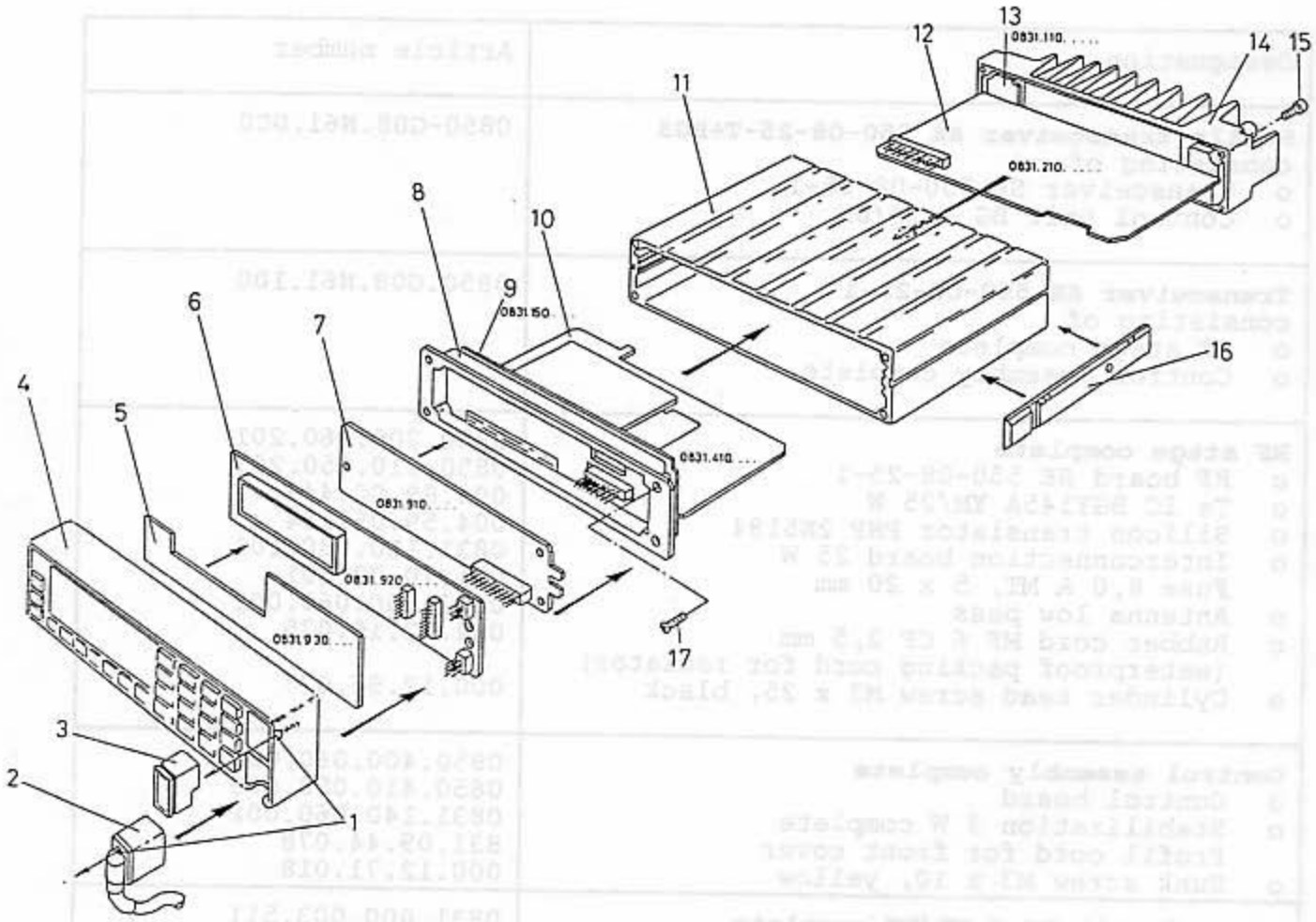
IMPORTANT: When reinstalling the RF stage and the control, make sure that the seal ring does not jump out of its groove (although it is stuck in, it is possible that it may be shifted when inserting the screws).
If necessary, apply a light coating of silicone grease to the seal ring.

3. Install the control assembly in reverse order.

4.5 RF Stage (Figure 4-2)

1. Unscrew the four fillister head screws (Figure 4-2/15) from the rear panel and carefully pull the RF stage out of the two guide rails in the housing.

2. Install the RF stage in reverse order. Pay attention to the "IMPORTANT" note in Section 4.4.



1	Hex socket head screw (2x)	10	Control board
2	Microphone connector	11	Casing
3	Coding plug	12	RF board
4	Control unit	13	Interconnection board
5	Key board	14	Rear panel
6	Display board	15	Cylinder head screw (4x)
7	Converter board	16	Guide rail (2x)
8	Cover plate	17	Sunk screw (4x)
9	Stabilization board		

Figure 4-2 Exploded view

4.6 Parts List SE 550-08-25-1

Designation	Article number
Mobile transceiver SE 550-08-25-T+BG3 consisting of o Transceiver SE 550-08-25-1 o Control unit BG 3-TR/UK	0850-G08.N61.0C0
Transceiver SE 550-08-25-1 consisting of o RF stage complete o Control assembly complete	0850.G08.N61.100
RF stage complete o RF board SE 550-08-25-1 o Tx IC BGY145A YM/25 W o Silicon transistor PNP 2N5194 o Interconnection board 25 W Fuse 8,0 A MT, 5 x 20 mm o Antenna low pass o Rubber cord MP 6 CP 2,5 mm (waterproof packing cord for radiator) o Cylinder head screw M3 x 25, black	0850.200.060.201 0850.210.050.201 004.89.00.449 004.59.05.194 0831.110.050.101 001.70.00.801 0832.300.060.002 002.72.10.035 000.12.96.027
Control assembly complete o Control board o Stabilization 3 W complete Profil cord for front cover o Sunk screw M3 x 10, yellow	0850.400.060.003 0850.410.050.003 0831.140.060.002 831.09.44.078 000.12.71.018
Control unit BG 3-TR/UK complete o Coding plug complete o Converter board BG 3 o Display board BG 3 o Profil cord for front frame o Protective foil for window o Hex socket head screw M3 x 6, black	0831.000.003.511 0831.000.000.941 0831.910.050.203 0831.920.050.005 831.09.44.079 831.03.44.299 000.12.06.031
Casing	0831.01.38.154
Mounting set complete o Bag for universal mounting set Fuse 8 A, 6 x 25 mm o Interconnector SE 550 complete	0831.000.060.304 0831.080.060.002 001.70.00.800 831.10.00.800
Loudspeaker 4 Ω/5 W	008.10.00.800

4.7 Transportation, Storage and Packing

Original packaging or normal commercial packing materials should be used when storing, dispatching or transporting equipment.

The storage temperature range is -40 to +80 °C.

Technical Handbook

SE 550-08-25-1

Part 5

Alignment

TABLE OF CONTENTS

5 ALIGNMENT

5.1 General

For each alignment step a separate page is reserved. On each page the test layout and a view of the p.c.b board with the test and alignment points are given. The test layout also lists the equipment to be used in each case. No significance need be attached to empty (instrument) boxes.

When selecting the RF test set, the high transmitter output (up to 25 W) of the SE 550 should be taken into account. Eventually a suitable attenuator should be connected between the transmitter and the test set.

The test channels are indicated as follows:

- H: highest
- M: medium (center)
- T: lowest

} channel within the band of the SE 550 to be tested

- X: any channel

Unless specified otherwise, all alignments should be made at a supply voltage of 13,2 V and at a ambient temperature between +18 and +28 °C.

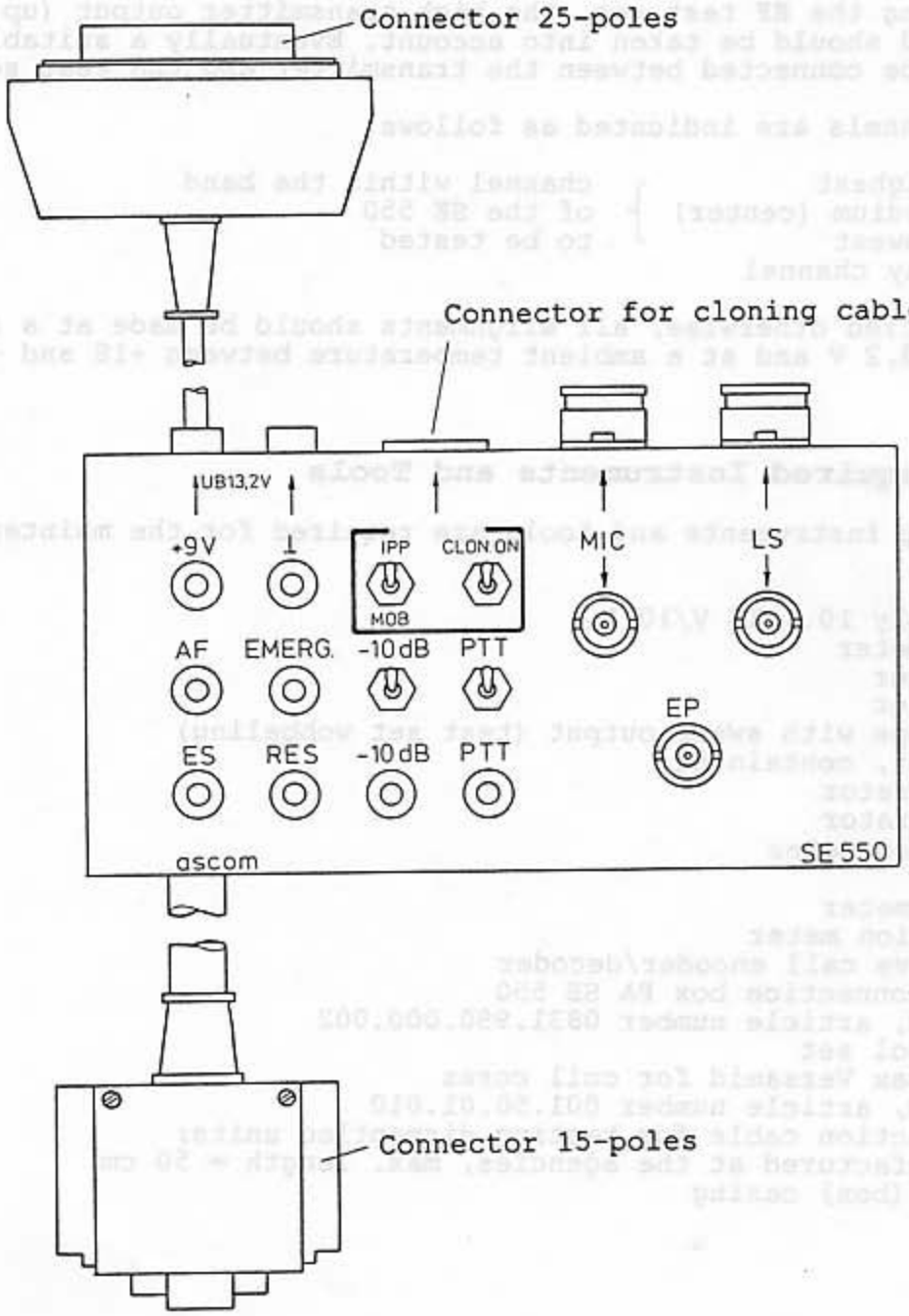
5.2 Required Instruments and Tools

The following instruments and tools are required for the maintenance of the SE 550:

- o Power supply 10...16 V/10 A
- o DC amperemeter
- o AF voltmeter
- o DC voltmeter
- o Oscilloscope with sweep output (test set wobbeling)
- o RF test set, containing:
  - RF generator
  - AF generator
  - Deviation meter
  - Counter
  - RF wattmeter
  - Distortion meter
  - Selective call encoder/decoder
- o Test and connection box PA SE 550
  Ascom GmbH, article number 0831.990.000.002
- o Regular tool set
- o Securing wax Versamid for coil cores
  Ascom GmbH, article number 001.50.01.010
- o Interconnection cable for testing dismantled units;
  to be manufactured at the agencies, max. length = 50 cm
- o Alignment (box) casing

Drawing Test and Connection Box PA SE 550

Ascom GmbH, article number 0831.990.000.002



Explanation of control and connector elements on test and connection box PA SE 550

UB 13,2 V	Supply voltage +13.2 V from power supply unit
+9 V	Operating voltage +9 V from SE 550
⊥	Ground
AF	Earphone output from SE 550
EMERG.	Releasing emergency call, active = low
-10 dB	Tx power reduction -10 dB (toggle switch)
PTT	Tx on/off (toggle switch)
ES	External signalization, max. 12 V
RES.	Reserve line
-10 dB	Tx power reduction -10 dB, controlled by external devices (PC etc.)
PTT	Tx on/off, controlled by external devices (PC etc.), active = low
MIC	Two microphone inputs 100 mV
LS	Two loudspeaker outputs 4 Ω
EP	Earphone output
IPP/MOB	Selector switch for interactive parameter programming (IPP) or normal operation (MOB)
CLON.ON	Cloning on/off switch (selector switch IPP/MOB in position IPP)

5.3 Preparing, Disassembly

1. Demount the SE 550 assemblies as follows:

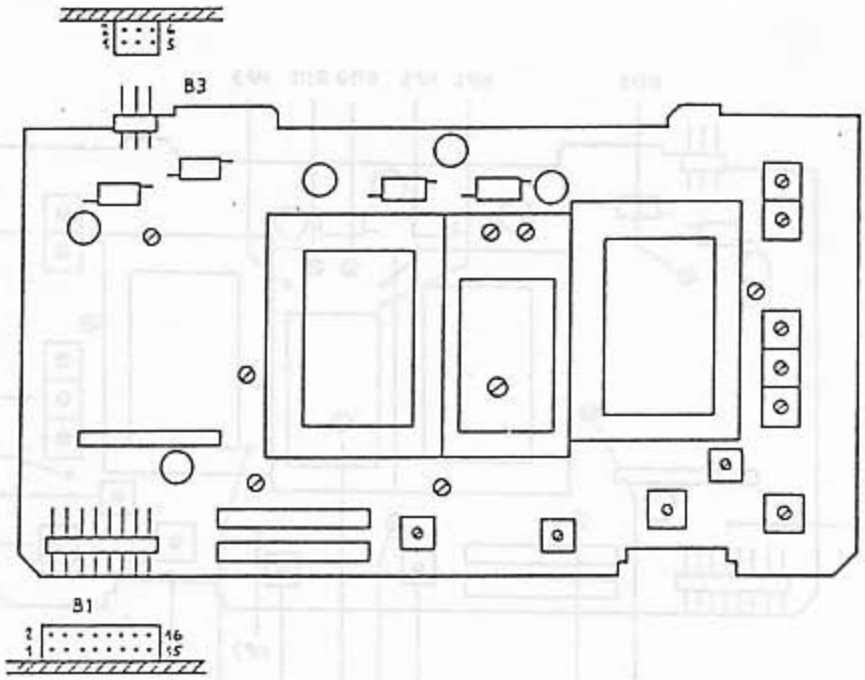
   - o Control unit, refer to section 4.3 in part 4
   - o Control board, refer to section 4.4 in part 4
   - o RF board, refer to section 4.5 in part 4

2. Carefully re-assemble the boards without the casing. All alignment points are accessible from outside.

5.4 List of Potential Designations

Potential	Designation
+ 60 V	Power supply for the display
+ 9 V	Stabilized voltage +9 V
+ 5 V	Stabilized voltage +5 V
+ E	+9 V, receiver supply
+ S	+9 V, transmitter supply
+ UB, + Batt	Battery voltage +12 V
+ UB/2	Reference voltage
- 10 dB	Control for reduced output power
A/D Data	A/D coverter output data
AS	Open collector output for external signalling
CD	Clock, processor bus
Cloning Ein	Cloning on
Cloning TxD	Tx data cloning
Cloning RxD	Rx data cloning
Cloning RTS	Ready to send cloning
Cloning CTS	Clear to send cloning
Da, Data	Data line
Data v. STG	Data from control board
Data z. STG	Data to control board
DTMF	Double frequency signalizing
Ein	Switching ON criterion
EN, Enable	Control line
EN OPT IN	Enable input, option board
EN OPT OUT	Enable output option board
FF	Display filament voltage
Gnd	Ground of the transceiver
Hö	Earphone output
LS ein	Loudspeaker ON criterion
Lsp	AF signal to the loudspeaker
Masse	Ground of the transceiver
MI IN	Microphone signal after high pass
MI OUT	Output signal of the microphone amplifier
Mic	AF signal from microphone
Mod	Conditioned AF towards VCO
µP	Microprocessor
NF aus	AF output signal
NF ein	AF input signal
NF OPT IN	AF input, option board
NF OPT OUT	AF output, option board
NF von Dis.	AF signal from discriminator
NF zu Verst.	AF signal to output amplifier
PT z. STG	Subaudio tone to control board
PT v. STG	Subaudio tone from control board
Ref. 400 kHz	Reference frequency 400 kHz
RES	Not connected (reserve)
Rsp	Squelch criterion
Squelch	Carrier criterion
ST	Transmit key
Tx Enable	Transmitter control line
Tx' (+S)	Supply voltage of TX driver stages
Unlock	Unlock criterion of synthesizer
Ur	VCO regulation voltage
Ust	VCO preset voltage
z.b.V.	Not used

5.5 RF Board, Connectors and Pin-Assignment

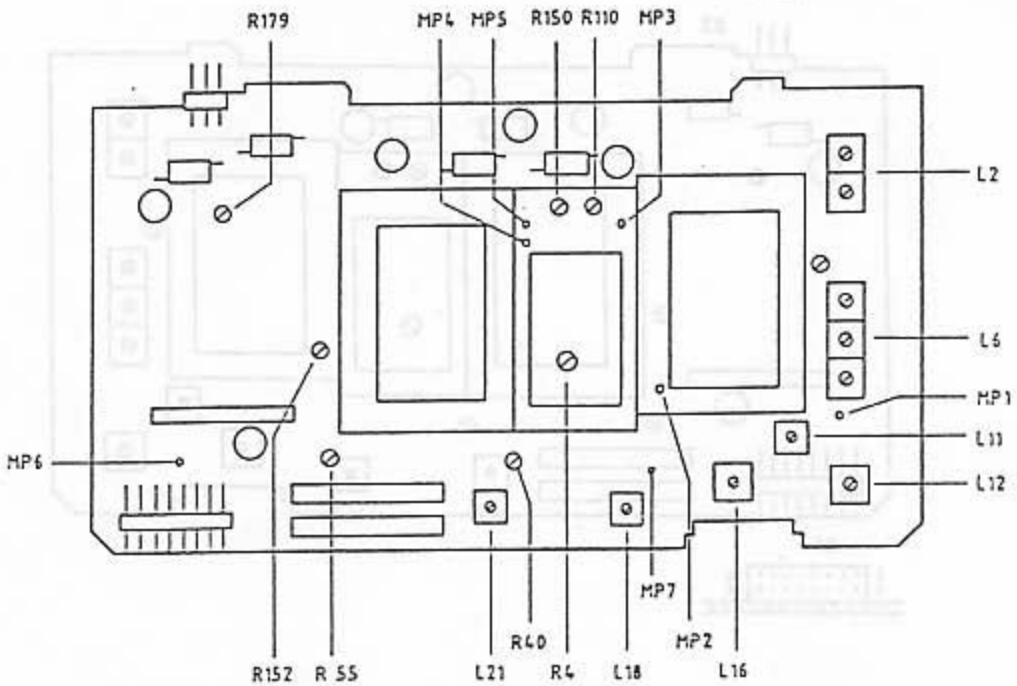


Pin assignment B1	
1	Clock
2	Data out
3	Enable Tx
4	Enable Rx
5	RF data
6	Enable RF
7	Mod vers RF
8	AF
9	RSP Squelch
10	RSSI
11	Reserve
12	+9 V
13	+UB
14	+UB
15	Gnd, ground
16	Gnd, ground

Pin assignment B3	
1	-10 dB
2	Reserve
3	Reserve
4	+ 9 V
5	RSP, Squelch
6	AF to final ampl.

These connections are soldered to the inter-connection board.

5.6 RF Board, Test Points and Alignment Elements



Tuning elements

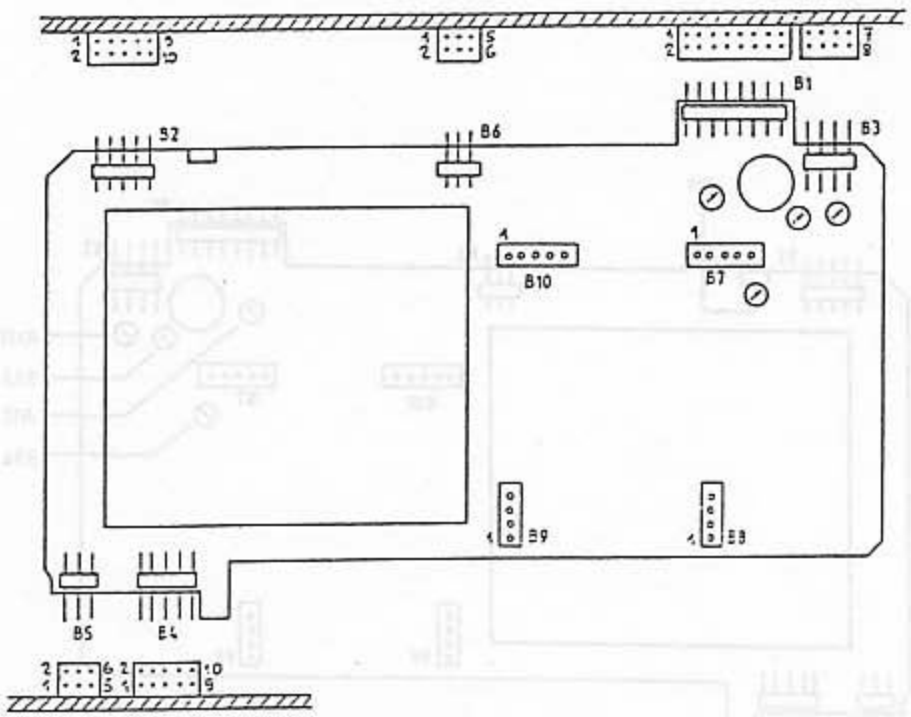
L2:	RF filter (2 circuits)
L6:	RF filter (3 circuits)
L11:	Local oscillator filter
L12, L16, L18	IF circuits
L21:	Discriminator circuit
R4:	TCXO frequency adjustment
R40:	AF level
R55:	Squelch switching threshold
R110:	Adjustment of receiver VCO
R150:	Adjustment of transmitter VCO
R152:	Max. deviation
R179:	Output power

Test points

1	RF signal behind L6
2	Regulation voltage VCO Rx
3	Preset voltage VCO Rx
4	Preset voltage VCO Tx
5	Regulation voltage VCO Tx
6	AF level
7	IF adjustment point

B1/12 Voltage 9,3 V

5.7 Control Board, Connectors and Pin-Assignment



Pin assignment B1	
1	--
2	--
3	Status
4	St
5	Reserve
6	RXD
7	TXD
8	En/Hors IN/OUT
9	+ 9 V
10	Ground
11	Ground earphone
12	Earphone
13	Ground microphone
14	Micro
15	--
16	--

Pin assignment B3	
1	Modulation → RF
2	AF ← disc.
3	RSP
4	RSSI
5	Reserve
6	+ 9 V
7	+ UB
8	Ground

Pin assignment B4	
1	Reserve
2	As
3	AF in
4	Hö
5	ST
6	Emergency call
7	+ 9 V
8	Microphone
9	AF → speaker
10	AF → speaker

Pin assignment B6	
1	+ 5 V
2	Enable
3	Speaker ON
4	AF → speaker
5	Speaker from BG
6	Speaker from BG

Pin assignment B2	
1	AF → speaker
2	AF → speaker
3	--
4	+ UB
5	Clock
6	Data → RF board
7	Enable TX
8	Enable RX
9	Data ← RF board
10	Enable RF board

Pin assignment B5	
1	Cloning ON
2	Cloning TXD
3	Cloning RXD
4	Cloning RTS
5	Cloning CTS
6	Ground

- The connections B1, B2, B5, B6 are soldered.
- B7, B8, B9, B10 are connections to the option p.c.b.

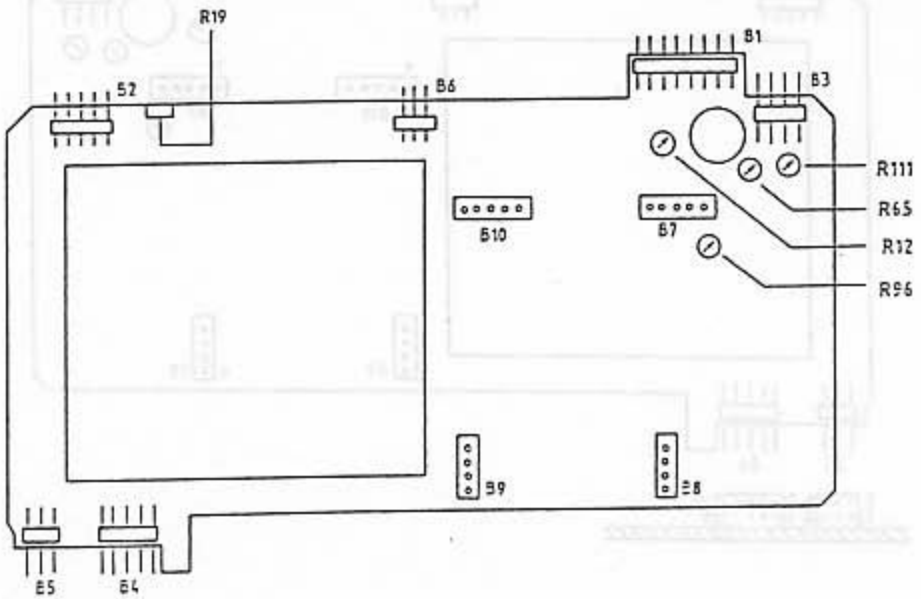
Pin assignment B7	
1	AF ← option
2	AF → option
3	Micro ground
4	Micro in
5	Micro out

Pin assignment B8	
1	Ground
2	DTMF
3	PT in
4	Clock

Pin assignment B9	
1	Data ← A/D conv.
2	Data → STE
3	Data ← STE
4	PT ← STE

Pin assignment B10	
1	RSSI
2	Enable option →
3	Enable option ←
4	+ 5 V
5	+ 9 V

5.8 Control Board, Test Points and Alignment Elements

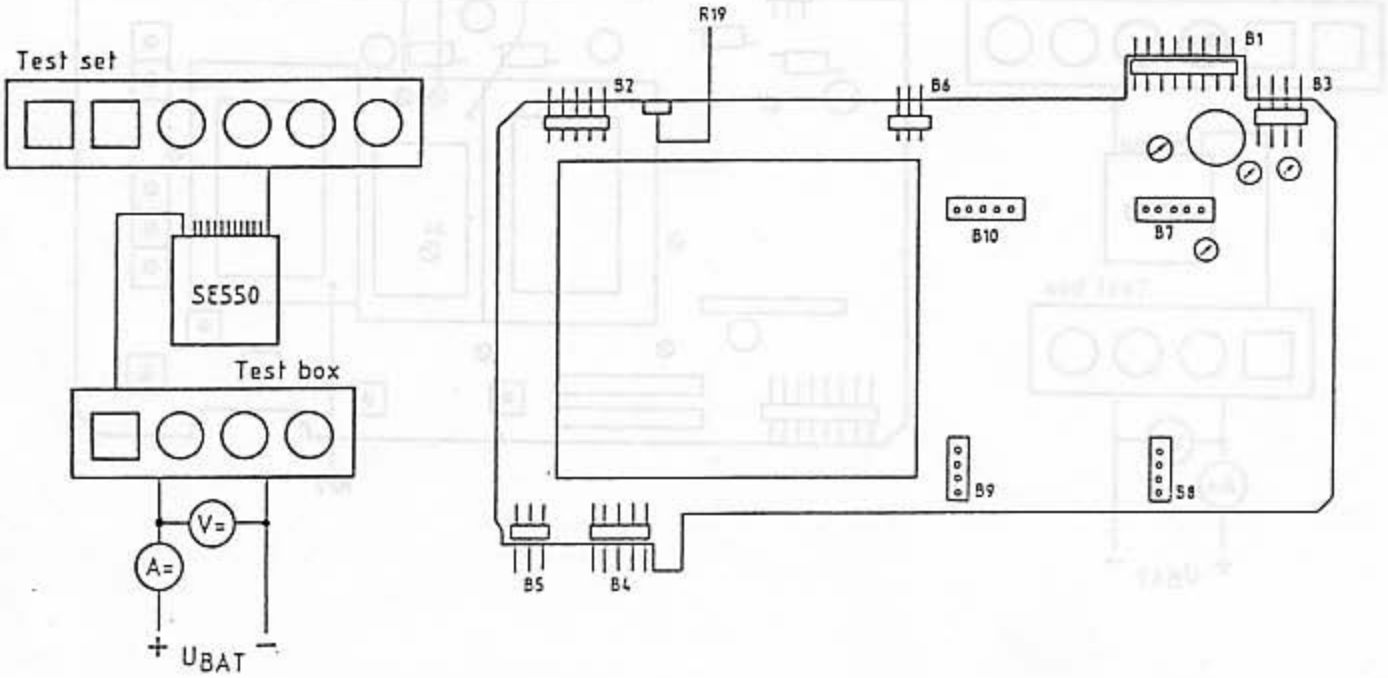


Tuning elements

R12: Switching threshold of the selcall decoder
R19*: Voltage 9.3 V
R65: Deviation
R96: Deviation symmetry
R111: Tone deviation

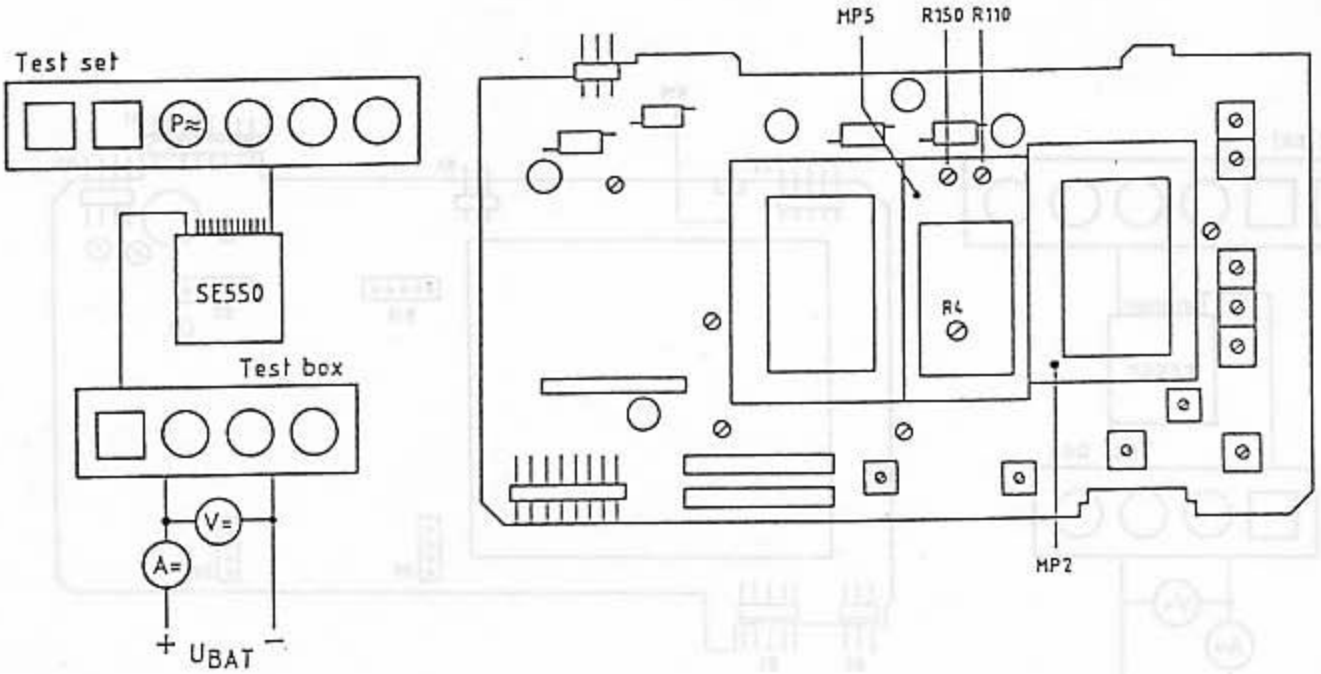
* R19 is mounted on the stabilizer board.

5.9 Operating Voltage 9,3 V



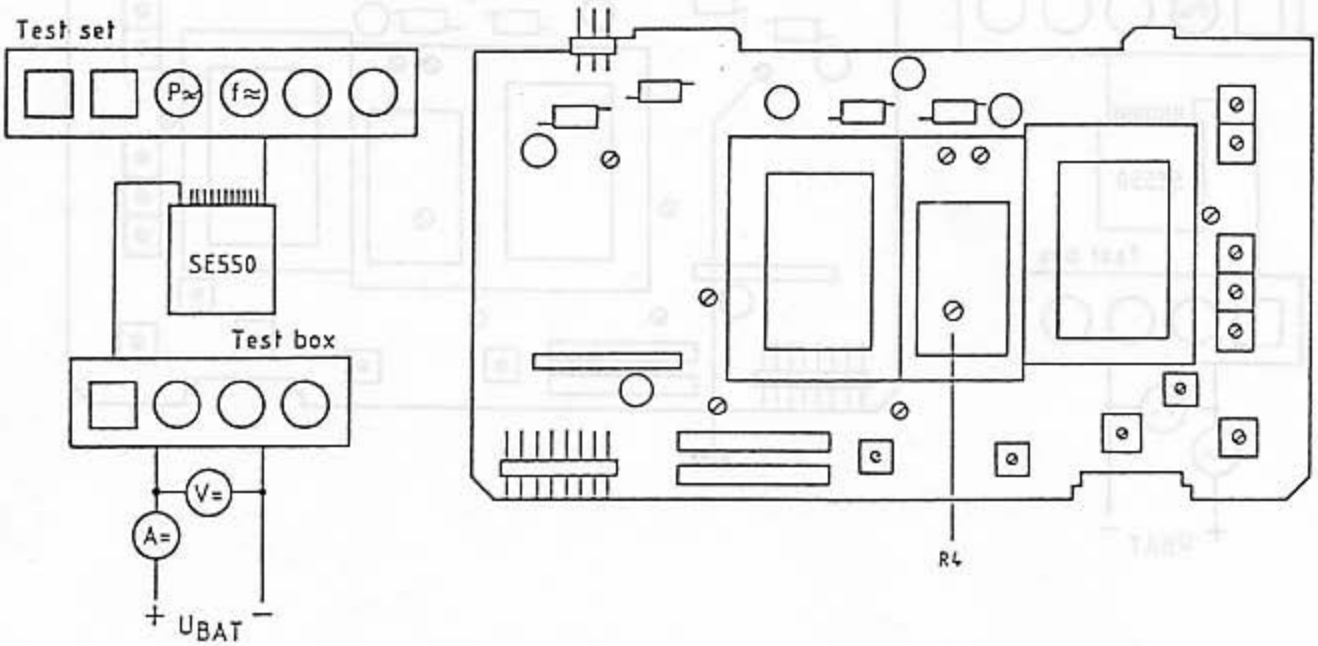
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M	R	Set voltage 9.3 V with R19 on stabilization board. Measure on RF board connector B1	B1/12		9.3 ±0.1 V

5.10 Voltage Controlled Oscillators



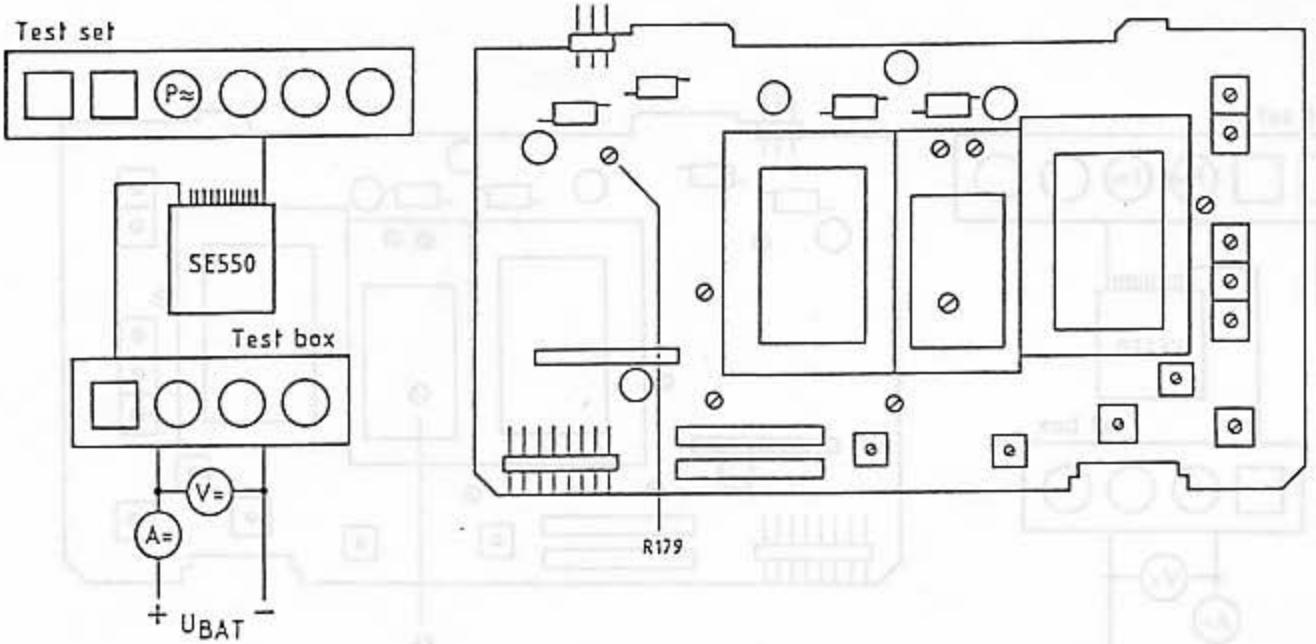
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	L	R	Set control voltage with R110	MP2	UR	5.0 ±0.2 V
2	All	R	Check control voltage for all channels	MP2	UR	3.5...6.5 V
3	L	T	Set control voltage with R115	MP5	UR	5.0 ±0.2 V
4	All	T	Check control voltage for all channels	MP5	UR	3.5...6.5 V

5.11 Frequency Setting



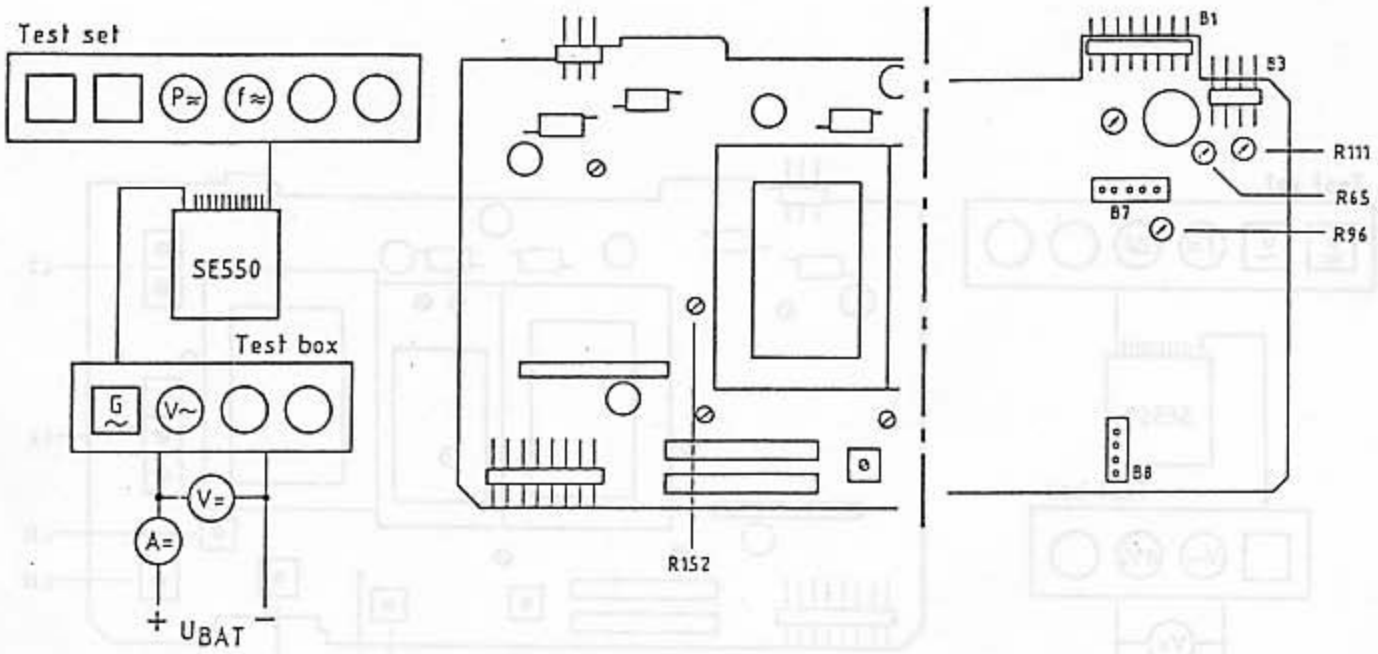
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M	T	Set the transmitter frequency f nom. with R4 (TCXO) NOTE: X102 = BNC connector for antenna	X102		f nom. ± ≤ 500 Hz

5.12 Transmission Power



No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1			Adjust the supply voltage to 13.2 V			
2	M	T	Set the transmitter power with R179	X102	Pout	10(25)W ±1.5dB
3	L,M,H	T	Vary the power supply voltage between 10,8 and 15,6 V	X102	Pout	10(25)W ±1.5dB
4	M	T	Measure the reduced output power			
			10 W SE 550	X102	Pout	5(1)W ±1.5 dB
			25 W SE 550	X102	Pout	12.5(2.5)W ±1.5 dB

5.13 Modulation

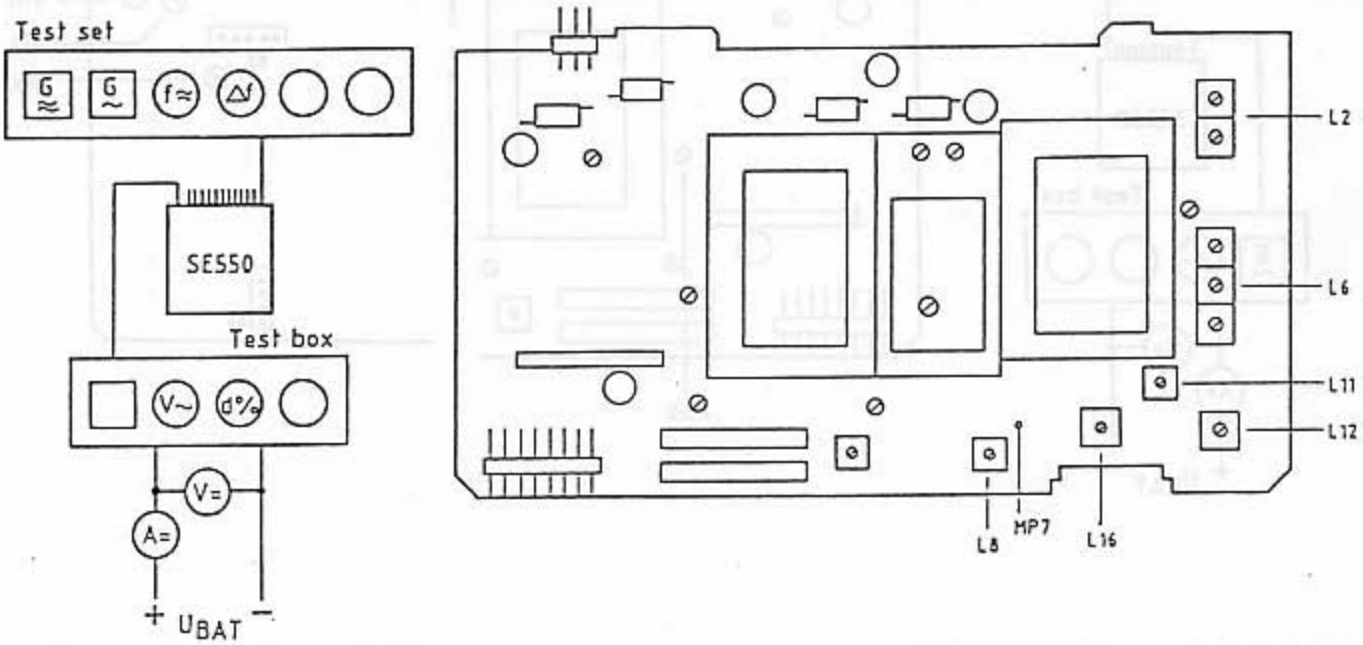


NOTE: BG = control unit

No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1			Feed in modulation signal (Ri = 3 Ω)	BG	MIC	1000 Hz/10 mV
2			Adjust R65 and R111 to medium position			
3	M	T	Set peak deviation Δf max. with R152	X102		Δf = table
4			Feed in modulation signal	BG	MIC	1000 Hz/1 mV
5	M	T	Set nominal deviation Δf nom. with R65	X102		Δf = table
6	M	T	As 1+3, check peak deviation	X102		
7	H,L	T	Check peak deviation referred to channel M	X102		Δ ≤ 100 Hz
8	M	T	Adjust deviation symmetry with R96	X102		Δ ≤ 100 Hz

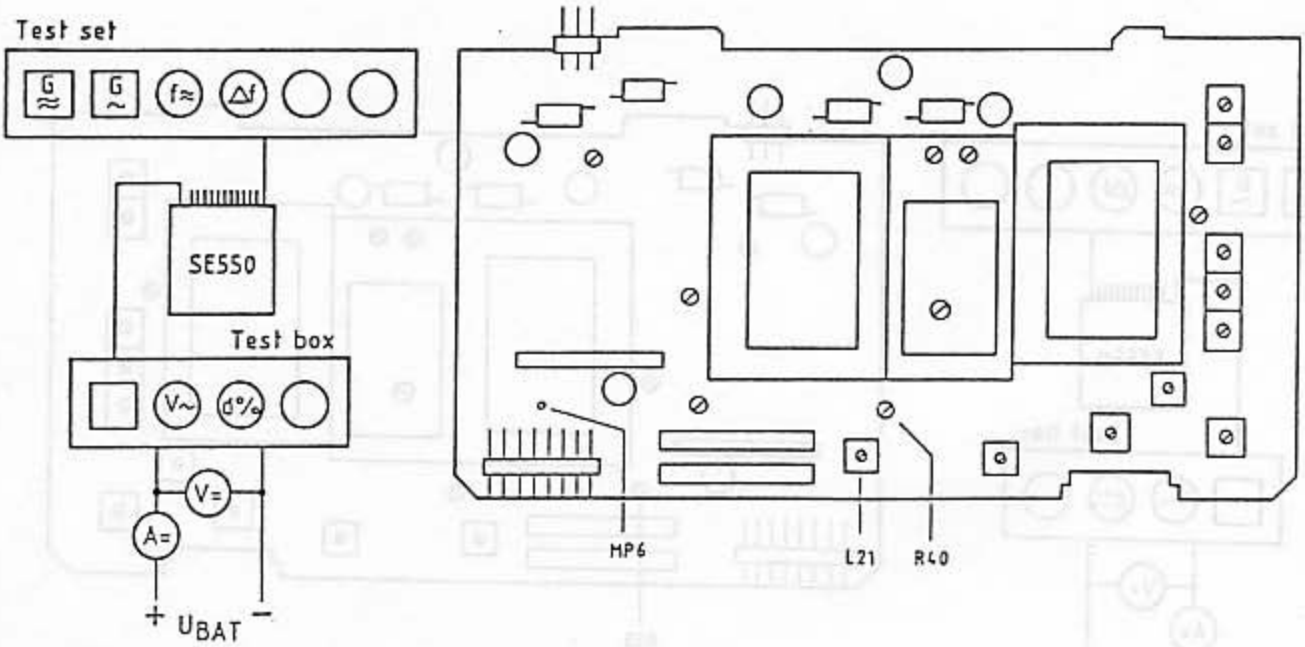
Channel spacing:	Peak deviation:	Nominal deviation:
12.5 kHz	±1.8...2.5 kHz	±1.3...1.7 kHz
20 kHz	±3.3...4.0 kHz	±2.2...2.6 kHz
25 kHz	±4.3...5.0 kHz	±2.8...3.2 kHz

5.14 RF and IF Settings Receiver



No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M	R	Wobulate the RF test set. Set the unmodulated receiver frequency	X102		---
2	M	R	Tune RF filter L2, L6, L11 and L18 to maximum level and L12, L16 to minimum ripple	MP7		

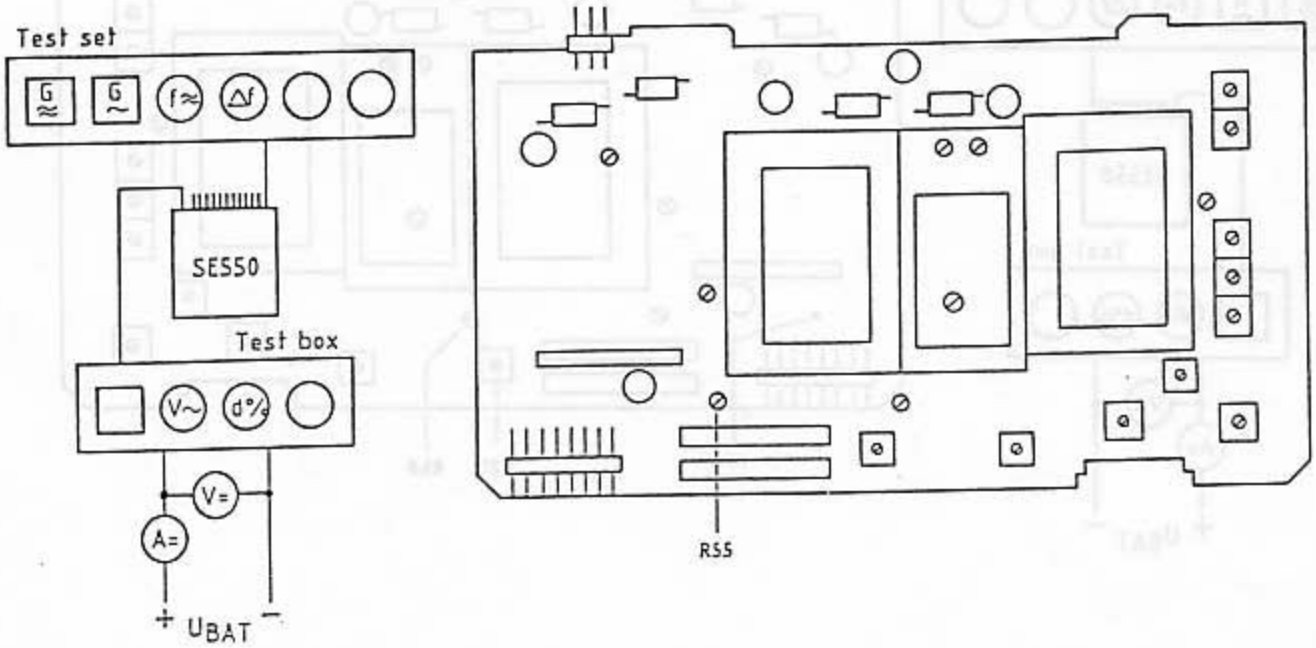
5.15 AF Settings Receiver



Note: PA = Test and connection box PA SE 550

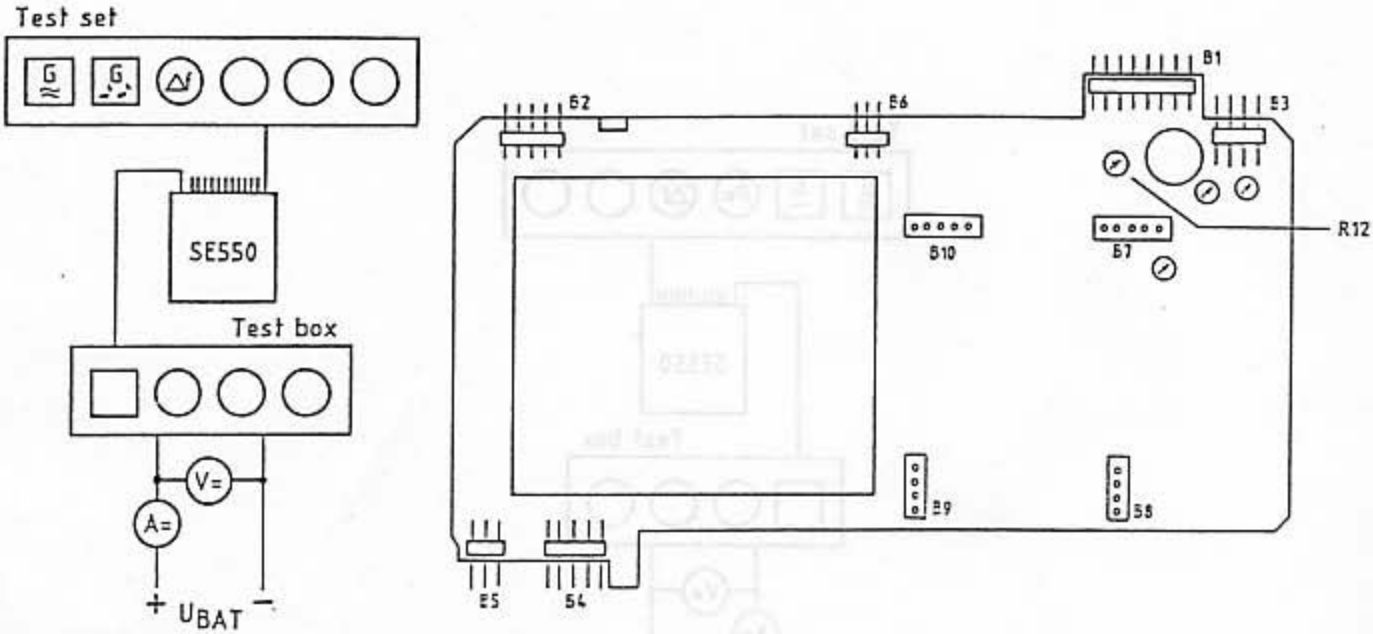
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M		Feed in reception frequency, modulation 1000 Hz, Δf = 60 % Δf max.	X102		100 µV
2	M	R	Tune L21 to maximum AF level	MP6		Maximum
3	M	R	Set AF level with R40	PA	Hö	300 mV eff.
4	M	R	Check distortion	PA	Hö	≤ 4%

5.16 Sensitivity Check



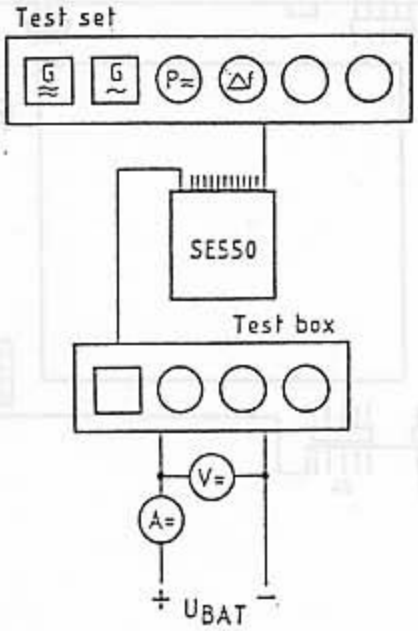
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1			Feed in reception frequency, modulation 1000 Hz, Δf = 60 % Δf max. Squelch off	X102		0,7 µV EMF (chan. spacing 20/25 kHz) 1,0 µV EMF (chan. spacing 12,5 kHz)
2	All	R	Check S/N ratio	PA	Hö	≥ 20 dB
3	M	R	Set squelch switching level with R55	PA	Hö	19 ±1 dB (SINAD)
4	M	R	Check switching hysteresis	PA	Hö	2...4 dB

5.17 Selective Call, Deviation and Response Threshold



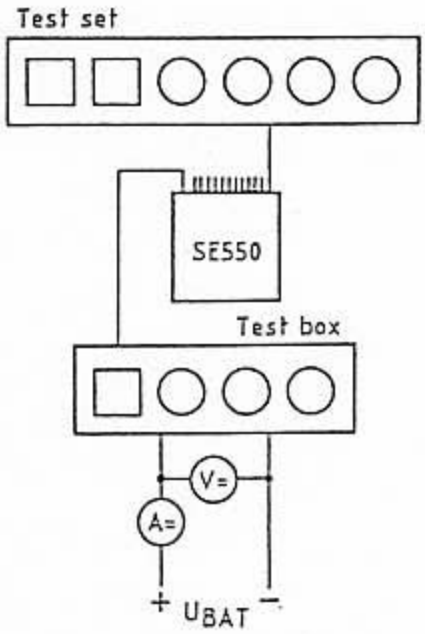
No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M	R	Feed in reception frequency. Modulate with selective call encoder, code according to decoder	X102		100 µV
2	M	R	Set R12 so that			
			decoder responds at Δf	X102		≥ 1 kHz
			decoder does not respond at Δf	X102		≤ 0.4 kHz
3	M	T	Check selective call encoder deviation*	X102		≥ 80 % of Δf
			*The output voltage (and, in consequence, the deviation) is set to a fixed value. If needed, a test PROM containing a single tone encoder may be programmed via IPP at the agency for further tests with selective call			

5.18 Tone Squelch, Deviation and Response Threshold



No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	X	T	Select channel with TSQ. Check deviation without modulation signal	X102		approx. 800 Hz
2	X	R	Feed in reception frequency modulated by TSQ frequency. Check whether:	X102		100 µV
			TSQ decoder responds at Δf	X102		≥ 400 Hz
			TSQ decoder does not respond at Δf	X102		≤ 200 Hz

5.19 Current Consumption



No.	Chan.	T/R	Setting, alignment, check	Meas. point	Pot.	Set value
1	M	R	Reception, standby	PA		approx. 0.5 A
2	M	R	Reception, squelch open, with modulation	PA		approx. 1.0 A
3	M	T	Transmit 25(10)W	PA		approx. 6(4) A
4			SE 550 switched off	PA		approx. 50 mA

Technical Handbook

SE 550-08-25-1

Part 6

Circuit Diagrams and Parts Lists
for
Transceiver SE 550
Control Unit BG 3

6 Circuit Diagrams and Parts Lists

6.1 Overview

SE 550-08-25-1 complete	Parts list	0850.G08.N61.0C1
SE 550-08-25-T+BG3	Parts list	0850.G08.N61.0C0
SE 550-08-25-1	Parts list	0850.G08.N61.100
Control assembly, complete	Parts list	0850.400.060.003
Control board	Parts list	0850.410.150.003
	Circuit diagram	0850.410.210.003
	PCB-layout	0850.410.390.003 A,B
Stabilization 3 W	Parts list	0831.140.160.002
	Circuit diagram	0831.140.310.002
	PCB-layout	0831.140.390.002
MPT 1327 modem board	Parts list	0831.470.150.001
	Circuit diagram	0831.470.410.001
	PCB-layout	0831.470.490.001
RF stage, complete	Parts list	0850.200.060.201
RF board	Parts list	0850.210.150.201
	Circuit diagram	0850.210.210.201 A,B,C
	PCB-layout	0832.210.390.002 A,B
Squelch	Parts list	0831.250.150.101
	Circuit diagram	0831.250.410.101
	PCB-layout	0831.250.490.003
Low pass Tx	Parts list	0831.280.150.601
	Circuit diagram	0831.280.410.002
	PCB-layout	0831.280.490.003
Low pass Rx	Parts list	0831.290.150.601
	Circuit diagram	0831.290.410.001
	PCB-layout	0831.290.490.002
VCO Rx	Parts list	0832.510.160.002
	Circuit diagram	0832.510.410.002
	PCB-layout	0832.510.490.002
VCO Tx	Parts list	0832.510.160.502
	Circuit diagram	0832.510.410.502
	PCB-layout	0832.510.490.002
TCXO 8PPM	Parts list	0833.564.060.001
TCXO	Parts list	0833.560.160.001
	Circuit diagram	0833.560.410.001
	PCB-layout	0833.560.490.002 A,B
Antenna low pass	Parts list	0832.300.160.002
	Circuit diagram	0832.300.410.002
	PCB-layout	0832.300.490.002

Interconnection board 25 W	Parts list	0831.110.150.101
	Circuit diagram	0831.110.410.001
	PCB-layout	0831.110.490.002
Control unit BG3-TR/UK, compl.	Parts list	0831.000.003.511
Coding plug	Parts list	0831.000.000.941
Coding board	Parts list	0831.940.150.001
	Circuit diagram	0831.940.410.001
	PCB-layout	0831.940.490.001
Converter	Parts list	0831.910.150.203
	Circuit diagram	0831.910.310.203
	PCB-layout	0831.910.390.204
Display board	Parts list	0831.920.150.005
	Circuit diagram	0831.920.110.005
	PCB-layout	0831.920.390.006
Key board	Parts list	0831.930.150.001
	Circuit diagram	0831.930.310.001
	PCB-layout	0831.930.390.003
Mounting set, complete	Parts list	0831.000.060.304
Mounting set, bag	Parts list	0831.080.060.002
Interconnector, complete	Parts list	0831.170.160.001
	Circuit diagram	0831.170.410.002
	PCB-layout	0831.170.490.002
Dyn. microphone DD 65	Parts list	0831.090.001.004
	Wiring diagram	0831.090.420.310

S T A N D A R D P A R T S L I S T

+0850G08N610C1 SE 550-08-25-1 CPL. SE 550

CHANGE NO. 3

ARTICLE NUMBER	QUANTITY	DESCRIPTION
+0850G08N610C0	1	SE 550-08-25-T+BG3 SE 550
+0831000060304	1	MOUNTING SET COMPLETE SE 550
0081000800	1	LOUDSPEAKER 4 OHM KL 1 5 W

END

S T A N D A R D P A R T S L I S T

+0850G08N610C0 SE 550-08-25-T+BG3 SE 550

CHANGE NO. 1

ARTICLE NUMBER	QUANTITY	DESCRIPTION	
+0850G08N61100	1	SE 550-08-25-1	SE 550
+0831000003511	1	BG 3-TR/UK	SE 550

END

S T A N D A R D P A R T S L I S T

+0850G08N61100 SE 550-08-25-1 SE 550

CHANGE NO. 3

ARTICLE NUMBER	QUANTITY	DESCRIPTION
0001296027	4	CYLINDER-HEAD SCREW, BLACK M3X25
0001271018	4	SUNC SCREW, YELLOW M3X10
0001036004	4	WASHER, BLACK B 3,2 MM
+0850400060003	1	CONTROL CPL. SE550-TRUNKING #
+0850200060201	1	RF STAGE ASSEMBLY CPL.-08-25-1 SE550
8310138154	1	CASING -01
0007013306	1	LABEL 60X112 MM ASCOM
0007031515	1	SPRING COVER CARTON
0007031516	1	CORRUGATED BOARD INLAY
8310444397	1	GUIDE FOR 5-POLE CONNECTOR

END

S T A N D A R D P A R T S L I S T

+0850400060003 CONTROL ASSEMBLY CPL. SE550-TRUNKING #

CHANGE NO. 1

ARTICLE NUMBER	QUANTITY	DESCRIPTION	
+0831140060002	1	STABILIZATION 3 W CPL. SE 550 #	
+0850410050003	1	CONTROL BOARD SE 550-TRUNKING	
+0831470050001	1	MPT 1327-MODEM SE 550	
8310248175	1	COVER CPL.	-01
8310244172	1	METAL SHIELD	
0007013347	1	ADHESIVE LABEL 15 X 6 MM	

END

CONTROL ASSEMBLY SE 550-TRUNKING CHANGE NO. 01

POSITION	ARTICLE NUMBER	DESCRIPTION
A000	0050900001S	CHIP RES. 0 R (JUMPER) 1206 !
A001	+0831410070018	BOARD DK 153 X 94 MM
A002	+0850410390003	PCB LAYOUT A,B -01
A003	+0850410210003	CIRCUIT DIAGRAM -01
B000	0050900001S	CHIP RES. 0 R (JUMPER) 1206 !
B001	0072169504	CONNECTOR 16-POLE 2-ROW 13MM
B004	0072109502	CONNECTOR 10-POLE 2-ROW ODU
B005	0072069402	CONNECTOR 6-POLE LANG 2-REIHIG
B007	0072058101	CONNECTOR 5-POLE AUS 72508101
B008	0072048101	CONNECTOR 4-POLE AUS 72508101
B009	0072048101	CONNECTOR 4-POLE AUS 72508101
B010	0072058101	CONNECTOR 5-POLE AUS 72508101
C000	0050900001S	CHIP RES. 0 R (JUMPER) 1206 !
C001	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C002	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C003	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C004	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C005	0068116106S	TAN. CAP. 10UF 16V 10% !
C006	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1 !
C007	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1 !
C008	0063100822S	SMD FOIL-CAP. 8,2NF 25V 5% E1 !
C009	0068116106S	TAN. CAP. 10UF 16V 10% !
C010	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C012	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C013	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C014	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C015	0068116105S	TAN. CAP. 1UF 16V 10% !
C017	0068116106S	TAN. CAP. 10UF 16V 10% !
C018	0061341150S	CER. CAP. 15PF 63V NP0 1206 !
C019	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C020	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C021	0068433680	TAN. CAP. 68UF 16V 10X14MM
C022	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C023	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C024	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C028	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C029	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C030	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C031	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C032	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1 !
C033	0068116106S	TAN. CAP. 10UF 16V 10% !
C034	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C035	0063100822S	SMD FOIL-CAP. 8,2NF 25V 5% E1 !
C036	0068116106S	TAN. CAP. 10UF 16V 10% !
C037	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C038	0068116106S	TAN. CAP. 10UF 16V 10% !
C040	0068116106S	TAN. CAP. 10UF 16V 10% !
C041	0061346104S	CER. CAP. 100NF 63V X7R 1206 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
C042	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C043	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C044	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C046	0068116106S	TAN. CAP. 10UF 16V 10% !
C047	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C048	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C049	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C050	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
C051	0061341471S	CER. CAP. 470PF 63V NP0 1206 !
C052	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C053	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C054	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C055	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C057	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C058	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C059	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C060	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C061	0061341471S	CER. CAP. 470PF 63V NP0 1206 !
C062	0061341471S	CER. CAP. 470PF 63V NP0 1206 !
C065	0068116106S	TAN. CAP. 10UF 16V 10% !
D000	0050900001S	CHIP RES. 0 R (JUMPER) 1206 !
D001	0040624148S	SMD DIODE LL4148 !
D002	0042202030S	SMD Z-DIODE 3,0V BZV55/C3V0 !
D003	0040624148S	SMD DIODE LL4148 !
D004	0040624148S	SMD DIODE LL4148 !
D005	0040624148S	SMD DIODE LL4148 !
D006	0042202051S	SMD Z-DIODE 5,1V BZV55/C5V1 !
D008	0040624148S	SMD DIODE LL4148 !
D009	0040624148S	SMD DIODE LL4148 !
D010	0040624148S	SMD DIODE LL4148 !
D011	0040624148S	SMD DIODE LL4148 !
H000	0050900001S	CHIP RES. 0 R (JUMPER) 1206 !
J001	0047440110S	SMD IC HEF 4011BT VAL
J002	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J003	0047440530S	SMD IC HEF 4053BT VAL
J004	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J005	0047440940S	SMD IC HEF 4094BT VAL
J006	0047440940S	SMD IC HEF 4094BT VAL
J007	0048907705S	SMD IC TL7705AID VOLTAGE CONTR.
J008	0043209346S	SMD IC NMC9346 EE-PROM-40-+85C
J009	0047440940S	SMD IC HEF 4094BT VAL
J010	0047440280S	SMD IC HEF 4028BT VAL
J011	0043008154S	MICROCOMPOLE MSM80C154JS PLCC OK
J012	0047484550	IC ASIC SE550
J014	0043214258	ST CMOS.RAM SRM20256LCT10 32X8
J016	0043252416	EEPROM X24C16P XICOR
J017	0047440210S	SMD IC HEF 4021BT VAL
J018	0047440210S	SMD IC HEF 4021BT VAL
J020	0047440520S	SMD IC HEF 4052BT VAL
J021	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J022	0048900083S	SMD IC TL082ID -25-+85GR.C

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
J023	0047440530S	SMD IC HEF 4053BT VAL
J024	0047414504S	SMD IC MC 14504BD MOT
J025	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J026	0047440510S	SMD IC HEF 4051BT VAL
K000	0050900001S	CHIP RES. 0 R (JUMPER)1206 !
L001	0031601332	CHOKE 330UH SD75/330 NEO
L002	0031500150S	CHIP CHOKE 15UH 10% PAN !
Q001	0088511059S	SMD QUARTZ 11,0592MHZ 4MM TEL
R001	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R002	0050900105S	CHIP RES. 1 M 5% 0,125W 1206!
R003	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R004	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R005	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R006	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R007	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R008	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R009	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R010	0050900392S	CHIP RES. 3,9 K 5% 0,125W 1206!
R011	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R014	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R015	0050804604S	SMD RES. 6,04 K 1% 0,25W !
R016	0050804562S	SMD RES. 5,62 K 1% 0,25W !
R017	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R018	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !
R019	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R020	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R021	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R022	0050805562S	SMD RES. 56,20 K 1% 0,25W !
R023	0050805274S	SMD RES. 27,40 K 1% 0,25W !
R024	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R025	0050805200S	SMD RES. 20,00 K 1% 0,25W !
R026	0050900154S	CHIP RES. 150 K 5% 0,125W 1206!
R027	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R028	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R030	0050900513S	CHIP RES. 51 K 5% 0,125W 1206!
R031	0050900154S	CHIP RES. 150 K 5% 0,125W 1206!
R032	0050900394S	CHIP RES. 390 K 5% 0,125W 1206!
R033	0050900105S	CHIP RES. 1 M 5% 0,125W 1206!
R035	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R036	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R037	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R038	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R039	0050900105S	CHIP RES. 1 M 5% 0,125W 1206!
R040	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R041	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R042	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R043	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R044	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R045	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R046	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R047	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!

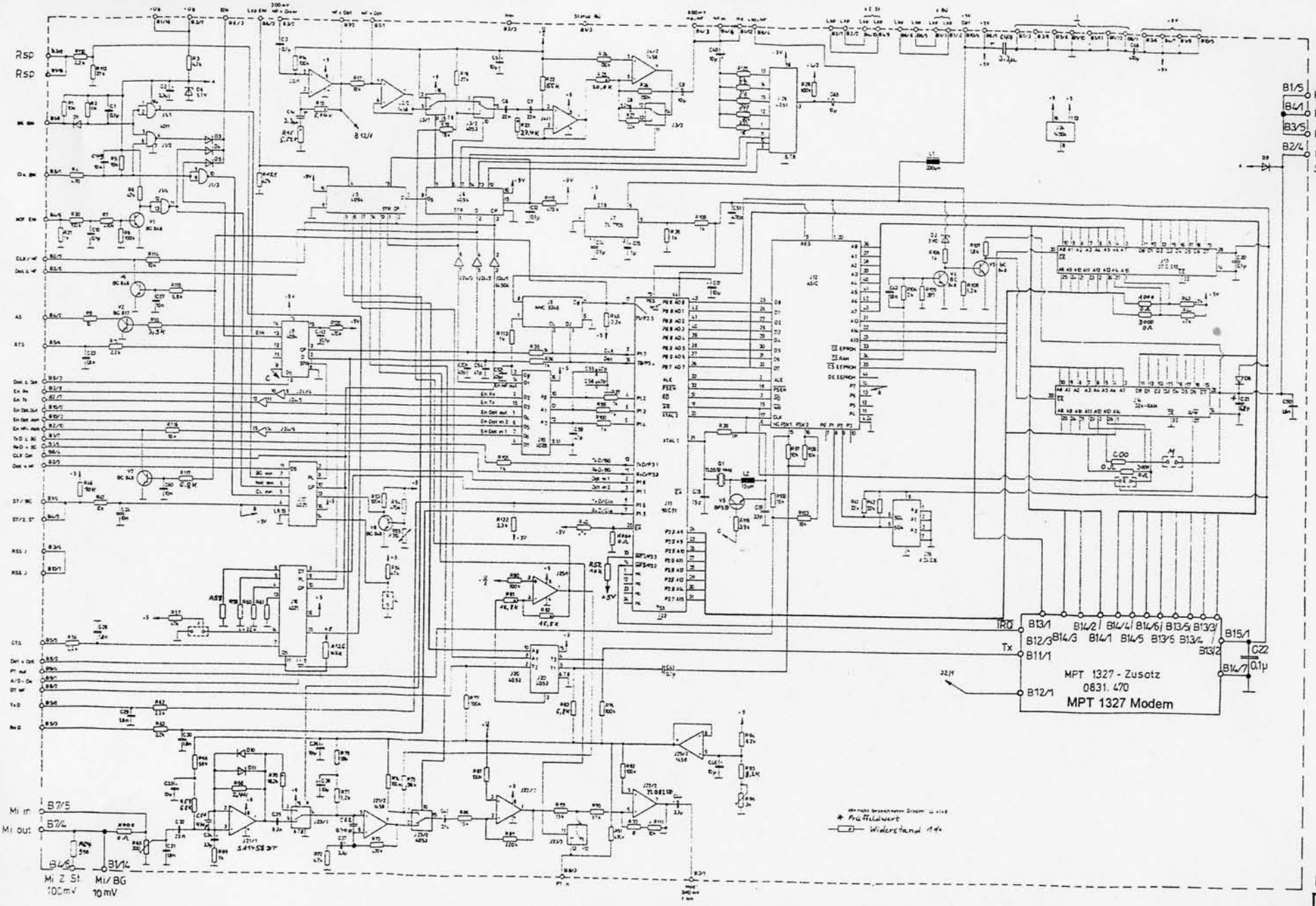
CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R052	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R053	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R054	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R055	0050813004	PTC RES.(30V) P310-C11 SIE
R056	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R057	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R058	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R059	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R060	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R061	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R062	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R063	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R064	0050963910S	CHIP RES. 910,0 R 1% 1206 !
R065	0053150301S	SMD TRIMMER 300 R LIN. MUR !
R066	0050900683S	CHIP RES. 68 K 5% 0,125W 1206 !
R067	0050900683S	CHIP RES. 68 K 5% 0,125W 1206 !
R068	0050900242S	CHIP RES. 2,4 K 5% 0,125W 1206!
R069	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R070	0050805182S	SMD RES. 18,20 K 1% 0,25W !
R071	0050900122S	CHIP RES. 1,2 K 5% 0,125W 1206!
R072	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R073	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R074	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R075	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R076	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R077	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R078	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R080	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R081	0050805158S	SMD RES. 15,80 K 1% 0,25W !
R082	0050805165S	SMD RES. 16,50 K 1% 0,25W !
R083	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R084	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R086	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
R087	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R088	0050900224S	CHIP RES. 220 K 5% 0,125W 1206!
R089	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
R090	0050900512S	CHIP RES. 5,1 K 5% 0,125W 1206!
R091	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R092	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R093	0050900001S	CHIP RES. 0 R (JUMPER)1206 !
R094	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!
R095	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!
R096	0053150302S	SMD TRIMMER 3 K LIN. MUR !
R097	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R098	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R099	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R100	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R101	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R102	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R103	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R104	0050900202S	CHIP RES. 2,0 K 5% 0,125W 1206!

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R105	0050900391S	CHIP RES. 390 R 5% 0,125W 1206!
R106	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R107	0050900182S	CHIP RES. 1,8 K 5% 0,125W 1206!
R108	0050900122S	CHIP RES. 1,2 K 5% 0,125W 1206!
R109	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R110	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R111	0053150103S	SMD TRIMMER 10 K LIN. MUR !
R112	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !
R113	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R114	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R115	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R116	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R117	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R118	0050900392S	CHIP RES. 3,9 K 5% 0,125W 1206!
R119	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R120	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R121	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R122	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R125	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R126	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
V001	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V002	0046930817S	SMD NPN TR. BC 817-40 6C VAL !
V004	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V005	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V006	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V007	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V008	0046930848S	SMD NPN TR. BC 848C 1L VAL !
V009	0046900019S	SMD NPN TR. BFS19 RF-AMP.!
W002	8310244173	FRAME FOR MICROPROCESSOR -03
X002	0074061028	IC SOCKET 28-POLE FLAT AMP
X003	0074061028	IC SOCKET 28-POLE FLAT AMP
X004	0074068044	IC SOCKET 44-POLE SMD-PLCC-CAS.
X005	0074068044	IC SOCKET 44-POLE SMD-PLCC-CAS.
Z001	0014000010	GUIDE BUSH 5204-4012 ELCO
Z002	0007013340	LABELS EEB 12 0615 PW

END



Translations (right side of circ

Res	=	
U_{Batt}	=	
Stützbatterie/Stabi	=	

Translations (bottem side of c

Mi Z.St.	=	
Mi/BG	=	
Mod. 300 mV f. NH	=	

Other Translations

Alle nicht bezeichneten Diode
All not designated diodes are

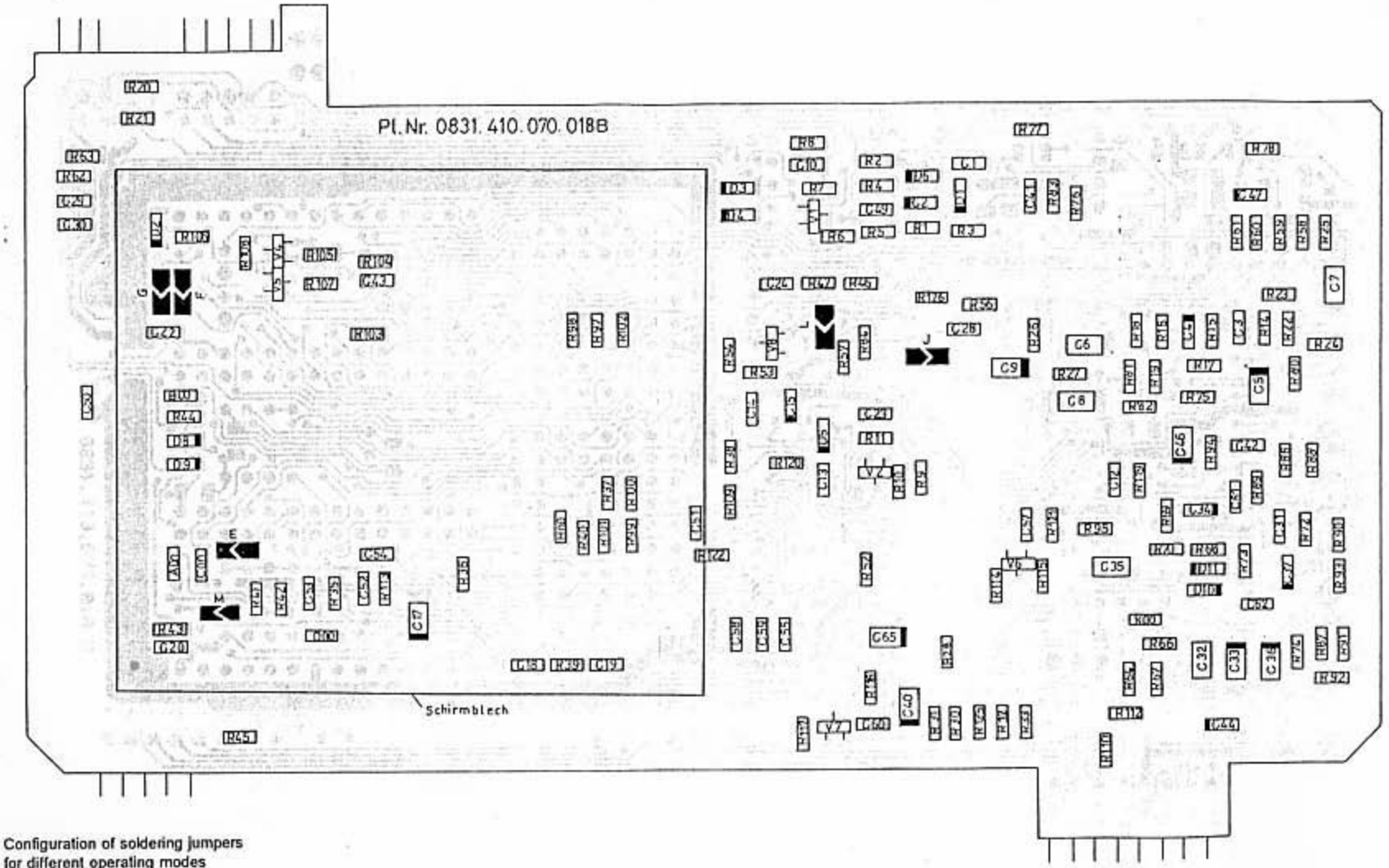
* Prüffeldwert = Value determ

Widerstand 1% = Resistor 1 %

Lp.Nr. 0850.410.390.0(

	Tag	Name
Bearb.	7.5.82	BCH
Gepr.		

Heinrich Pfitzner GmbH



Configuration of soldering jumpers
for different operating modes

	J	K	L
external program memory			
J19 according to ZVEI (FX003 QZ)	X		
J19 according to CCIR (FX003 QC)			X
without optional assembly		X	
with option assembly according to CTSS	remove R17		
with voice scramble unit	open B4/3 ←→B4/4		

NOTE: X = soldering jumper closed

Änderungen vorbehalten

Sb. Nr. 0850.410.110.003

	Tag	Name
Bearb.	7.5.82	SGH
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Control Board Trunking

SE 550

0850.410.390.003 B

01

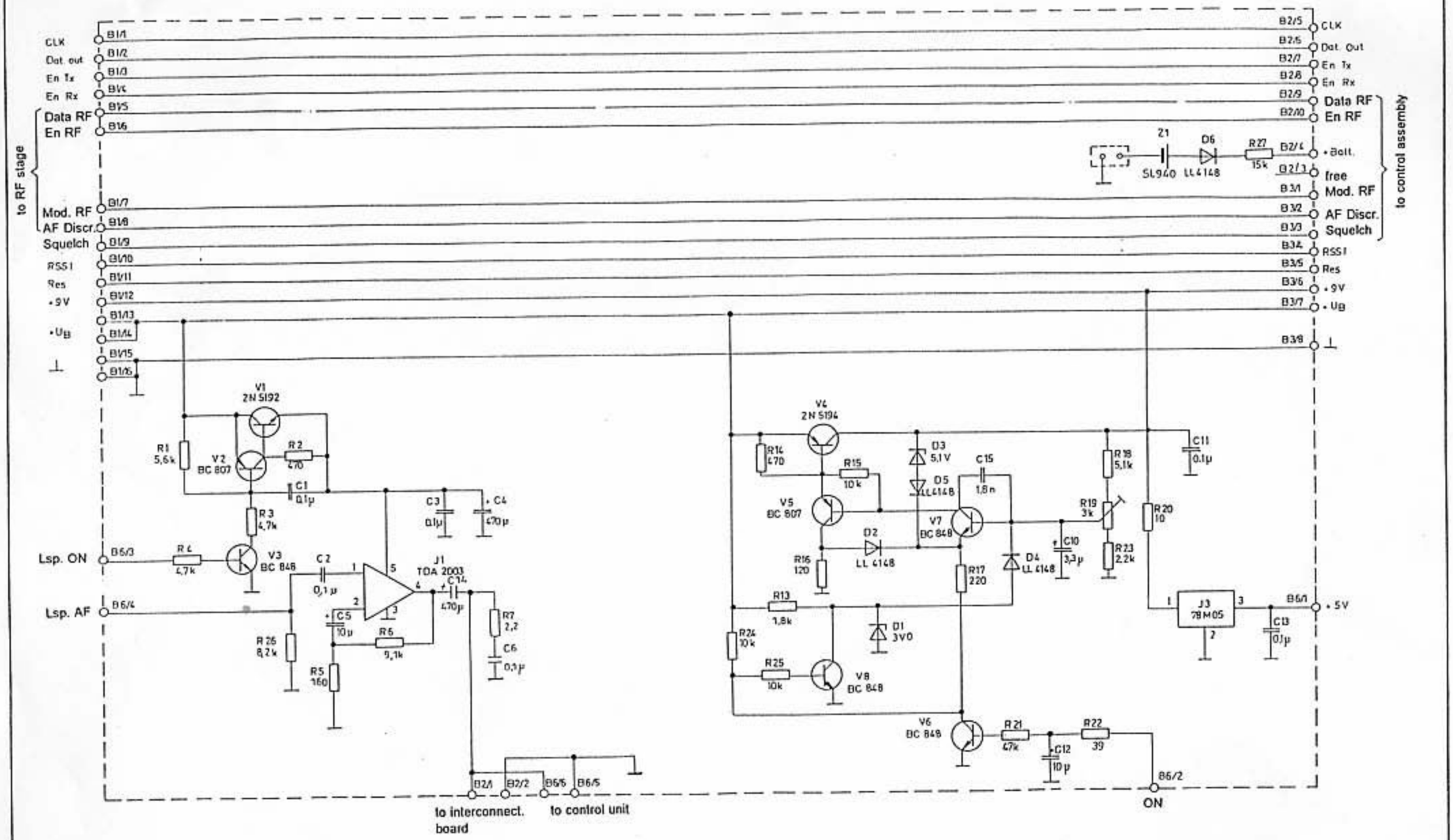
STABILIZATION 3W, COMPLETE SE 550 CHANGE NO. 05

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831140070003	BOARD DK 164 X 51 MM
A002	+0831140390002	PCB LAYOUT A,B -03
A003	+0831140310002	CIRCUIT DIAGRAMM -02
B001	0072169021	CONNECTOR 16-POLE (2X8) ODU
B002	0072109401	CONNECTOR 10-POLE SHORT 2-ROW
B003	0072089401	CONNECTOR 8-POLE SHORT 2-ROW
B006	0072069401	CONNECTOR 6-POLE SHORT 2-ROW
C001	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C002	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C003	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C004	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C005	0068116106S	TAN. CAP. 10UF 16V 10% !
C006	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C010	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C011	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C012	0068116106S	TAN. CAP. 10UF 16V 10% !
C013	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C014	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C015	0061341182S	CER. CAP. 1,8NF 63V NPO 1206 !
D001	0042202030S	SMD Z-DIODE 3,0V BZV55/C3V0 !
D002	0040624148S	SMD DIODE LL4148 !
D003	0042202051S	SMD Z-DIODE 5,1V BZV55/C5V1 !
D004	0040624148S	SMD DIODE LL4148 !
D005	0040624148S	SMD DIODE LL4148 !
D006	0040624148S	SMD DIODE LL4148 !
J001	0048402003	LIN.IC TDA2003V AF-6W-AMP.
J003	0048910905	IC L78M05CV V-REG. 5V 0,5A
R001	0050900562S	CHIP RES. 5,6 K 5% 0,125W 1206!
R002	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R003	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R004	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R005	0050900161S	CHIP RES. 160 R 5% 0,125W 1206!
R006	0050900912S	CHIP RES. 9,1 K 5% 0,125W 1206!
R007	0050900022S	CHIP RES. 2,2 R 5% 0,125W 1206!
R013	0050900182S	CHIP RES. 1,8 K 5% 0,125W 1206!
R014	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R015	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R016	0050900121S	CHIP RES. 120 R 5% 0,125W 1206!
R017	0050900221S	CHIP RES. 220 R 5% 0,125W 1206!
R018	0050900512S	CHIP RES. 5,1 K 5% 0,125W 1206!
R019	0053150302S	SMD TRIMMER 3 K 3,8X4,5MM
R020	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R021	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R022	0050900390S	CHIP RES. 39 R 5% 0,125W 1206!
R023	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R024	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R025	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R026	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R027	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
V001	0046905192	SI-TR. NPN 2N5192 POWER TR MOT
V002	0046930807S	SMD-PNP-TR. BC807-16 AF AMP!
V003	0046930848S	SMD NPN TR. BC 848C 1L PHI !
V004	0045905194	SI-TR. PNP 2N5194 MOT
V005	0046930807S	SMD PNP TR. BC807-16 AF AMP!
V006	0046930848S	SMD NPN TR. BC 848C 1L PHI !
V007	0046930848S	SMD NPN TR. BC 848C 1L PHI !
V008	0046930848S	SMD NPN TR. BC 848C 1L PHI !
W001	8310248184	FRONT COVER COMPLETE
W002	8310944078	PROFILE CORD FRONT COVER
W003	8520954048	GUIDE PIN -03
X001	8310244141	TRANSISTOR UNTERLAY
Z001	0014002026	INSULATING BUSH 2,6/8MM VAL
Z002	0014002026	INSULATING BUSH 2,6/8MM VAL
Z003	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z004	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z006	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z007	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z008	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z009	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z010	0001361010	CROSS SLOT SCREW YELLOW M2,5X6
Z011	0001011052	CYLINDER-HEAD SCREW YELLOW M2,5X10
Z012	0001011052	CYLINDER-HEAD SCREW YELLOW M2,5X10
Z013	0007013347	ADHESIVE LABEL 15 X 6 MM
Z014	0001041002	SPRING WASHER YELLOW B 2,5 MM
Z015	0001041002	SPRING WASHER YELLOW B 2,5 MM
Z016	0001031003	WASHER XELLOW B 2,7 MM
Z017	0001031003	WASHER XELLOW B 2,7 MM
Z018	0009019009	LOCTITE ADHESIVE

END



Lp.Nr. 0831.140.390.002

	Tag	Name
Bearb.	17.2.81	Pfpolir
Gepr.		

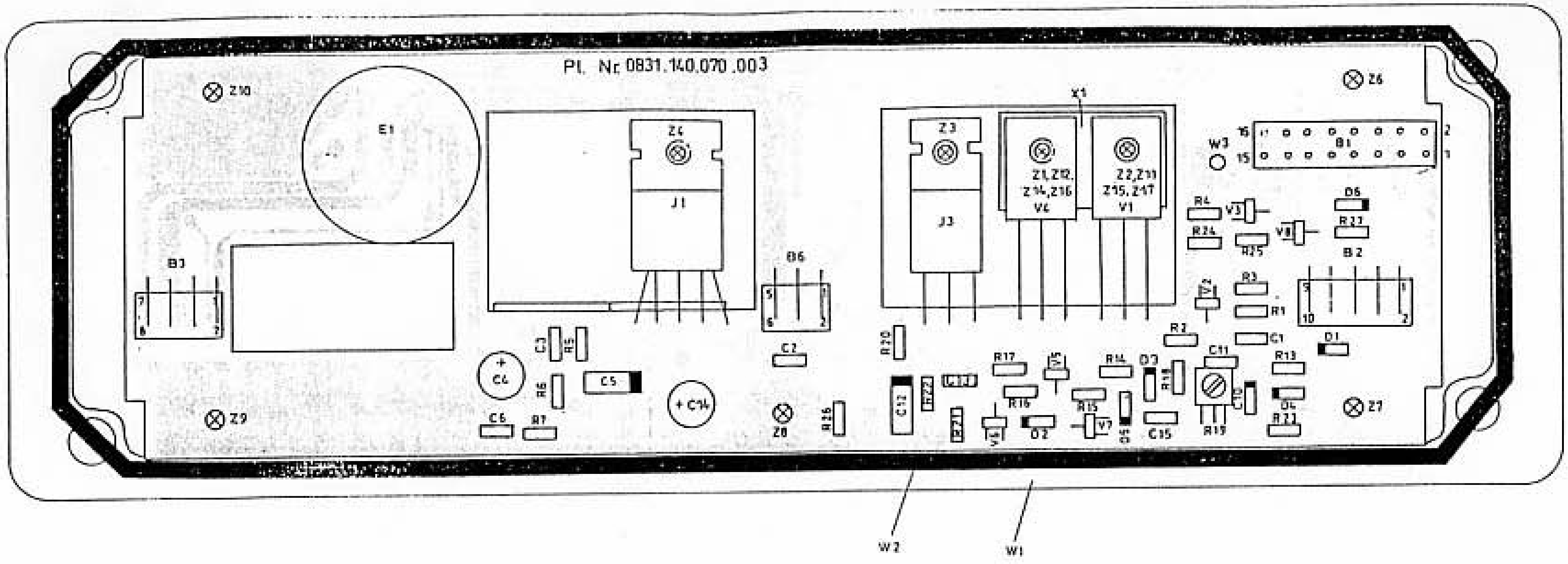
Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Stabilization Board 3 W

SE 550 | 0831.140.310.002

02



Sp. Nr. 0831.14 0. 310.002

	Tag	Name
Bearb.		
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Stabilization Board 3 W

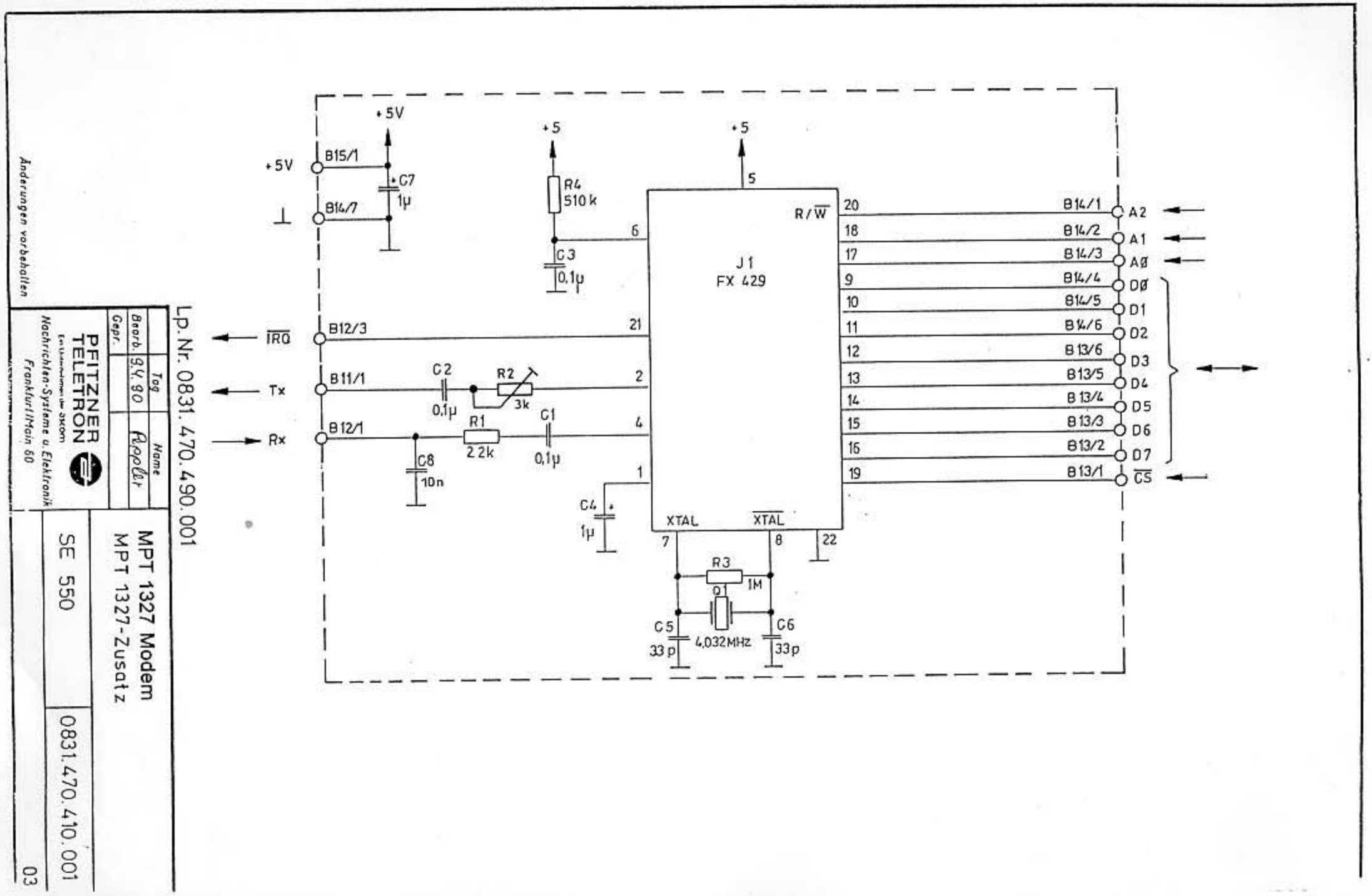
SE 550 | 0831.140.390.002

03

Änderungen vorbehalten

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831470070005	BOARD DK 40 X 17,5 MM
A002	+0831470490001	PCB LAYOUT -02
A003	+0831470410001	CIRCUIT DIAGRAM -03
B011	0072038749	CONNECTOR 3-POLE FROM 72208749
B012	0072048749	CONNECTOR 4-POLE FROM 72208749
B013	0072068749	CONNECTOR 6-POLE FROM 72208749
B014	0072078749	CONNECTOR 7-POLE FROM 72208749
B015	0072028749	CONNECTOR 2-POLE FROM 72208749
C001	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C002	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C003	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C004	0068116105S	TAN. CAP. 1UF 16V 10% !
C005	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C006	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C007	0068116105S	TAN. CAP. 1UF 16V 10% !
C008	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
J001	0048101429S	SMD IC FX429LG BD.3 FFSK-MOD
Q001	0088440320S	SMD QUARTZ 4,032MHZ TEL
R001	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R002	0053150302S	SMD TRIMMER 3 K LIN. MUR !
R003	0050900105S	CHIP RES. 1 M 5% 0,125W 1206!
R004	0050900514S	CHIP RES. 510 K 5% 0,125W 1206!
Z001	0007013340	ADHESIVE LABEL EEB 12 0615 PW

END



Änderungen vorbehalten

PFITZNER TELETRON
Entwicklungsbüro 3xcom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

	Tag	Name
Bearb.	9.4.90	Appler
Gepr.		

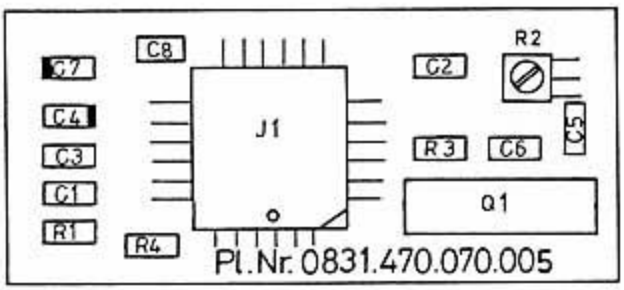
Lp.Nr. 0831.470.490.001

MPT 1327 Modem
MPT 1327-Zusatz

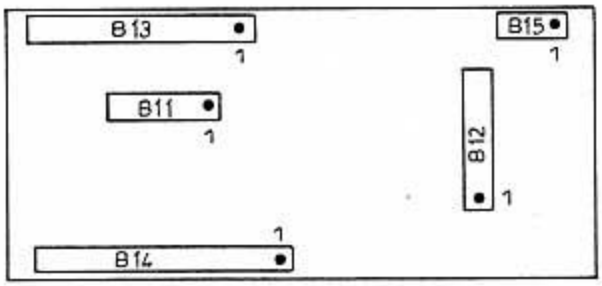
SE 550

0831.470.410.001

03



A-Side



B-Side

Sp.Nr. 0831.470.410.001

	Tag	Name
Bearb.	6.2.90	Pepoler
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

MPT- 1327- Zusatz
MPT 1327 Modem

SE 550 | 0831.470.490.001

02

Änderungen vorbehalten

S T A N D A R D P A R T S L I S T

+0850200060201 RF-STAGE ASSEMBLY CPL.-08-25-1 SE550

CHANGE NO. 2

ARTICLE NUMBER	QUANTITY	DESCRIPTION
+0850210050201	1	RF STAGE-08-25-1 SE 550
+0832300060002	1	ANT.LOW PASS (BLUE) CPL. SE550-08
+0831110050101	1	INTERCONNECTION BOARD 25 W SE 550
8310644295	1	COVER X -02
8310644099	1	COVER -02
8310944302	1	INSULATION F. 099
8310644313	1	COVER -01
8310944314	1	INSULATION F. 313 -01
8310644098	1	COVER -03
8310944324	1	INSULATION F. 098 -01
8310644061	1	COVER F. BGY 45
8310438050	1	REAR PANEL, VARNISHED -04
0027210035	0.450	RUBBER CORD MP 6 CP 2,5 MM
8310944117	1	RUBBER GASKET FOR CONNECTOR DEVICE
4240454044	1	GASKET 15 P
0014002026	1	INSULATION BUSH 2,6/8 MM VAL
0014002035	1	SIL. HEAT CODUCT.FOIL ST32(TO126)!
0016000100	8	GROUND SPRING 1,6 MM-500 KONT/M
0016000101	2	GROUND SPRING 1,1 MM-660 KONT/M
0045905194	1	SI-TR. PNP 2N5194 MOT
0048900449	1	TX-IC BGY145A 4M/25 W PHI
0091100301	0.035	SILVER WIRE 1,00
0001011052	1	CYLINDER-HEAD SCREW, YELLOW M2,5X10
0001031003	1	WASHER YELLOW B 2,7 MM
0001041002	1	SPRING WASHER YELLOW B 2,5 MM
0001276005	2	SUNK SCREW BLACK M2,5X8
0001276012	2	SUNK SCREW BLACK M2,5X22
0001291020	2	LENT FORM-HEAD SCREW M3X10
0001301001	2	WASHER YELLOW B 3,0 MM
0001361010	2	CROSS SLOT SCREW, YELLOW M2,5X6
0007013347	1	ADHESIVE LABEL 15X6 MM

END

RF STAGE SE 550-08-25-1 CHANGE NO. 03

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831210070017	BOARD DK 152 X 87 MM
A002	+0832210390003	PCB LAYOUT A,B -04
A003	+0850210210201	CIRCUIT DIAGRAM A,B,C
B003	0072169502	CONNECTOR 16-POLE 2 ROW ODU
C001	0061341220S	CER. CAP. 22PF 63V NP0 1206 !
C002	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C003	0061341270S	CER. CAP. 27PF 63V NP0 1206 !
C004	0061341039S	CER. CAP. 3,9PF 63V NP O 1206 !
C005	0061341033S	CER. CAP. 3,3PF 63V NP O 1206 !
C006	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C007	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C008	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C009	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C010	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C011	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C012	0061341056S	CER. CAP. 5,6PF 63V NP O 1206 !
C014	0061341068S	CER. CAP. 6,8PF 63V NP O 1206 !
C016	0061341056S	CER. CAP. 5,6PF 63V NP O 1206 !
C018	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C019	0068010105S	TAN. CAP. 1UF 10V 10% GR.A!
C020	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C022	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C023	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C026	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C027	0061341101S	CER. CAP. 100PF 63V NP O 1206 !
C028	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C029	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C030	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C031	0068010105S	TAN. CAP. 1UF 10V 10% GR.A!
C032	0061341068S	CER. CAP. 6,8PF 63V NP O 1206 !
C033	0061341100S	CER. CAP. 10PF 63V NP0 1206 !
C034	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C035	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C036	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C037	0068020685S	TAN. CAP. 6,8UF 20V 10% GR.F!
C038	0061341101S	CER. CAP. 100PF 63V NP O 1206 !
C039	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C040	0068025684S	TAN. CAP. 0,68UF 25V GR.B!
C041	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C042	0061341270S	CER. CAP. 27PF 63V NP O 1206!
C043	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C045	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C046	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C047	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C048	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C050	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C053	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C054	0061346104S	CER. CAP. 100NF 63V X7R 1206 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
C055	0061341470S	CER. CAP. 47PF 63V NP O 1206!
C056	0061341330S	CER. CAP. 33PF 63V NP 0 1206!
C057	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C058	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C059	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C060	0061346182S	CER. CAP. 1,8NF 63V X7R 1206 !
C061	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C062	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C063	0061341331S	CER. CAP. 330PF 63V NP0 1206 !
C064	0061402103	CAPACITOR 10NF 40V K10000 2RM
C065	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C066	0068010105S	TAN. CAP. 1UF 10V 10% GR.A !
C067	0061341220S	CER. CAP. 22PF 63V NP O 1206!
C068	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C069	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C072	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C073	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C074	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C075	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C076	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C078	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C079	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C080	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C081	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C082	0068025106S	TAN. CAP. 10UF 25V 10% GR.G!
C083	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C084	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C086	0068010105S	TAN. CAP. 1UF 10V 10% GR.A!
C087	0063100104S	SMD FOIL-CAP.100 NF 25V 5% D2 !
C088	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C089	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C091	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C092	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C093	0068533100	TAN. CAP. 10UF 35V 7X10MM
C094	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C095	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C096	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C097	0061341047S	CER. CAP. 4,7PF 63V NP 0 1206 !
C098	0061346182S	CER. CAP. 1,8NF 63V X7R 1206 !
C099	0061341100S	CER. CAP. 10PF 63V NP0 1206 !
C100	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C101	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C102	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C103	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C104	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C105	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C106	0061341101S	CER. CAP. 100PF 63V NP0 1206 !
C107	0061341047S	CER. CAP. 4,7PF 63V NP 0 1206 !
C108	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C109	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C110	0061346104S	CER. CAP. 100NF 63V X7R 1206 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
C111	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C112	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C113	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C114	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C115	0061341220S	CER. CAP. 22PF 63V NP0 1206 !
C116	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C117	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C118	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C119	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C120	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C122	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C123	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C124	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C125	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C126	0068020226S	TAN. CAP. 22UF 20V 10% GR.H!
C127	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C128	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C129	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C130	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C131	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C132	0068025684S	TAN. CAP. 0,68UF 25V GR.B!
C133	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C134	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C135	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C136	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C137	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C138	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C140	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C141	0068010105S	TAN. CAP. 1UF 10V 10% GR.A!
C142	0063100104S	SMD FOIL-CAP.100 NF 25V 5% D2 !
C143	0061341100S	CER. CAP. 10PF 63V NP0 1206 !
C144	0061346182S	CER. CAP. 1,8NF 63V X7R 1206 !
C145	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C146	0061341102S	CER. CAP. 1NF 63V NPO 1206 !
C147	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C148	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C149	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C150	0068020225S	TAN. CAP. 2,2UF 20V 10% GR.D!
C152	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C153	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C154	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C155	0061341047S	CER. CAP. 4,7PF 63V NP 0 1206 !
C156	0068010105S	TAN. CAP. 1UF 10V 10% GR.A !
C157	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C158	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C159	0061346182S	CER. CAP. 1,8NF 63V X7R 1206 !
C160	0068533100	TAN. CAP. 10UF 35V 7X10MM
C161	0067320471	ELECTR. CAP. 470UF 16V 10X13!
C162	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C163	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C164	0061346103S	CER. CAP. 10NF 63V X7R 1206 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
C165	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C166	0061341022S	CER. CAP. 2,2PF 63V NP 0 1206 !
C167	0061341390S	CER. CAP. 39PF 63V NP0 1206 !
C168	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C169	0061341022S	CER. CAP. 2,2PF 63V NP 0 1206 !
C170	0061341470S	CER. CAP. 47PF 63V NP0 1206 !
C171	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C172	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C175	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C176	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C177	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C179	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C180	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C181	0061346182S	CER. CAP. 1,8NF 63V X7R 1206 !
C182	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C183	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C184	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C185	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C205	0068015106S	TAN. CAP. 10UF 15V 10% GR.G!
C300	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C301	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
D001	0040629401	PIN-DIODE UM9401 UNIT
D003	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D005	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D006	0040050885S	SMD PIN-DIO. BA 885 SIE!
D011	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D012	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D013	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D014	0040050515S	SMD PIN-DIODE BB 515B SIE!
D015	0040050515S	SMD PIN-DIODE BB 515B SIE!
D016	0040624148S	SMD DIODE LL4148 !
D017	0040624148S	SMD DIODE LL4148 !
D018	0040624148S	SMD DIODE LL4148 !
D019	0040624148S	SMD DIODE LL4148 !
D022	0040624148S	SMD DIODE LL4148 !
D023	0040624148S	SMD DIODE LL4148 !
D024	0040050885S	SMD PIN-DIODE BA 885 SIE!
D025	0040050885S	SMD PIN-DIODE BA 885 SIE!
D026	0040624148S	SMD DIODE LL4148 !
D027	0040624148S	SMD DIODE LL4148 !
D028	0040624148S	SMD DIODE LL4148 !
D029	0040624148S	SMD DIODE LL4148 !
D030	0040050885S	SMD PIN-DIODE BA 885 SIE!
D031	0040050885S	SMD PIN-DIODE BA 885 SIE!
D032	0040624148S	SMD DIODE LL4148 !
D035	0042202082S	SMD Z-DIODE 8,2V BZV55/C8V2 !
D036	0042202120S	SMD Z-DIODE 12V BZV55/C12 !
D039	0041650001	SI.-DIODE P6KE 30A / BZW06-26
D040	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D041	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D042	0040629401	PIN-DIODE UM9401 UNIT

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
D044	0042202068S	SMD Z-DIODE 6,8V BZV55/C6V8 !
D045	0040050515S	SMD PIN-DIODE BB 515B SIE!
D046	0040050885S	SMD PIN-DIODE BA 885 SIE!
D047	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D048	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D049	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D050	0040104000S	SMD SCHOTTKY-DIODE BAS40 SIE!
D055	0040624148S	SMD DIODE LL4148 !
D056	0040624148S	SMD DIODE LL4148 !
J001	0048443361S	SMD IC MC3361 MOT
J002	0048712022S	SMD IC MC12022BD PLL-FRQ.SYTH
J003	0048700158S	SMD IC MC145158DW2 FREQ.SYNTH
J004	0047440940S	SMD IC HEF 4094BT VAL
J005	0047440210S	SMD IC HEF 4021BT VAL
J006	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J007	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J011	0048712022S	SMD IC MC12022BD PLL-FRQ.SYTH
J012	0048700158S	SMD IC MC145158DW2 FREQ.SYNTH
J013	0047440940S	SMD IC HEF 4094BT VAL
J014	0048902904S	SMD IC LM2904D 2-F.OP-AMP.
J015	0047440940S	SMD IC HEF 4094BT VAL
L001	0038832010	COIL BV+0832000S00010
L002	0038832104	DOUBLE FILTER BV39832104 -04
L004	0031500022S	CHIP CHOKE 2,2UH !
L005	0031500022S	CHIP CHOKE 2,2UH !
L006	0038832107	3-CIRCUIT FILTER BV39832107 -05
L011	0038832108	OSC.SEP.CIRCUIT BV39832108 -01
L012	0039852208	COIL 291GNS-5082BS TOKO !
L013	0031500330S	CHIP CHOKE 33UH
L015	0031500022S	CHIP CHOKE 2,2UH !
L016	0039852208	COIL 291GNS-5082BS TOKO !
L017	0031500330S	CHIP CHOKE 33UH
L018	0039852210	COIL 291GNS-5083RS TOKO !
L020	0031500330S	CHIP CHOKE 33UH
L021	0038852114	COIL BV39852114 -02
L028	0031500022S	CHIP CHOKE 2,2UH !
L029	0031500022S	CHIP CHOKE 2,2UH !
L034	0031500022S	CHIP CHOKE 2,2UH !
L035	0031500022S	CHIP CHOKE 2,2UH !
L036	0031500022S	CHIP CHOKE 2,2UH !
L037	0031500330S	CHIP CHOKE 33UH !
L038	0031500022S	CHIP CHOKE 2,2UH !
L039	0031500022S	CHIP CHOKE 2,2UH !
L040	0031500022S	CHIP CHOKE 2,2UH !
L041	0031500022S	CHIP CHOKE 2,2UH !
L042	0031502822S	CHIP CHOKE 8,2UH 10% COIL.!
L044	0026290000	WIRE BAND CHOKE FXC-3B VAL
L045	0026290000	WIRE BAND CHOKE FXC-3B VAL
L046	0026290000	WIRE BAND CHOKE FXC-3B VAL
L047	0038832009	COIL BV+0832000S00009
L049	0031500022S	CHIP CHOKE 2,2UH !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
L050	0026290000	WIDRE BAND CHOKE FXC-3B VAL
L052	0031500330S	CHIP CHOKE 33UH
L053	0031500330S	CHIP CHOKE 33UH
Q001	0087525005	QUARTZ FILT. 21M7,5CK 12,5K TEL
Q002	0088521856	QUARTZ 21,855 MHZ HC45U TELQ
Q003	0088520946	QUARTZ 20,945 MHZ HC45U TQX1826
Q004	0028011455	CER.FILTER CFU455G 4,5KHZ !
R002	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R003	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R004	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R005	0053150301S	SMD TRIMMER 300 R LIN. MUR !
R006	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R007	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R008	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R009	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R010	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R011	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R013	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R015	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R016	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R018	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R019	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R020	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R021	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R022	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R023	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R025	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R026	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R027	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R028	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R029	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R030	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R031	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R032	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R033	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R034	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R036	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R037	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R039	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R040	0053150303S	SMD TRIMMER 30 K LIN. MUR
R041	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !
R042	0050900123S	CHIP RES. 12 K 5% 0,125W 1206!
R043	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R044	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R045	0050900333S	CHIP RES. 33 K 5% 0,125W 1206 !
R046	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R048	0050900681S	CHIP RES. 680 R 5% 0,125W 1206!
R049	0050900151S	CHIP RES. 150 R 5% 0,125W 1206!
R050	0050900224S	CHIP RES. 220 K 5% 0,125W 1206!
R051	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R052	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R054	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R055	0053150302S	SMD TRIMMER 3 K LIN. MUR !
R057	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R058	0050900152S	CHIP RES. 1,5 K 5% 0,125W 1206!
R059	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R060	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
R061	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R062	0050900391S	CHIP RES. 390 R 5% 0,125W 1206!
R063	0050900391S	CHIP RES. 390 R 5% 0,125W 1206!
R064	0050813008	PTC RES. (30V) P330-C11 SIE
R065	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R066	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R067	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R068	0050900821S	CHIP RES. 820 R 5% 0,125W 1206!
R069	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R070	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R071	0050900121S	CHIP RES. 120 R 5% 0,125W 1206!
R072	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R073	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R074	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R075	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R076	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R077	0050900333S	CHIP RES. 33 K 5% 0,125W 1206 !
R078	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R079	0050900681S	CHIP RES. 680 R 5% 0,125W 1206!
R080	0050900683S	CHIP RES. 68 K 5% 0,125W 1206 !
R081	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R082	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R083	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R084	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R085	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R086	0050900821S	CHIP RES. 820 R 5% 0,125W 1206!
R087	0050900182S	CHIP RES. 1,8 K 5% 0,125W 1206!
R088	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R090	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R091	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R092	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R093	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R094	0050900391S	CHIP RES. 390 R 5% 0,125W 1206!
R095	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R097	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R098	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R099	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R100	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R101	0050900564S	CHIP RES. 560 K 5% 0,125W 1206!
R102	0050900244S	CHIP RES. 240 K 5% 0,125W 1206!
R103	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R104	0050805549S	SMD RES. 54,90 K 1% 0,25W !
R105	0050805274S	SMD RES. 27,40 K 1% 0,25W !
R106	0050805137S	SMD RES. 13,70 K 1% 0,25W !
R107	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R108	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R109	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R110	0053150303S	SMD TRIMMER 30 K LIN. MUR !
R111	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R112	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R113	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R114	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R115	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R116	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R117	0050900393S	CHIP RES. 39 K 5% 0,125W 1206 !
R118	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R120	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R121	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R122	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R123	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R124	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R125	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R126	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R127	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R128	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R129	0050900330S	CHIP RES. 33 R 5% 0,125W 1206 !
R130	0050900047S	CHIP RES. 4,7 R 5% 0,125W 1206!
R131	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R132	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R133	0050900150S	CHIP RES. 15 R 5% 0,125W 1206 !
R134	0050900047S	CHIP RES. 4,7 R 5% 0,125W 1206!
R135	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
R136	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R137	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R138	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R139	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R140	0050900564S	CHIP RES. 560 K 5% 0,125W 1206!
R141	0050900244S	CHIP RES. 240 K 5% 0,125W 1206!
R142	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R143	0050805549S	SMD RES. 54,90 K 1% 0,25W !
R144	0050805274S	SMD RES. 27,40 K 1% 0,25W !
R145	0050805137S	SMD RES. 13,70 K 1% 0,25W !
R146	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R147	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R148	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R149	0050900683S	CHIP RES. 68 K 5% 0,125W 1206 !
R150	0053150303S	SMD TRIMMER 30 K LIN. MUR !
R151	0050900391S	CHIP RES. 390 R 5% 0,125W 1206!
R152	0053150103S	SMD TRIMMER 10 K LIN. MUR !
R153	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R154	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R155	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R156	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R157	0050900183S	CHIP RES. 18 K 5 % 0,125W 1206!
R158	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R159	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!

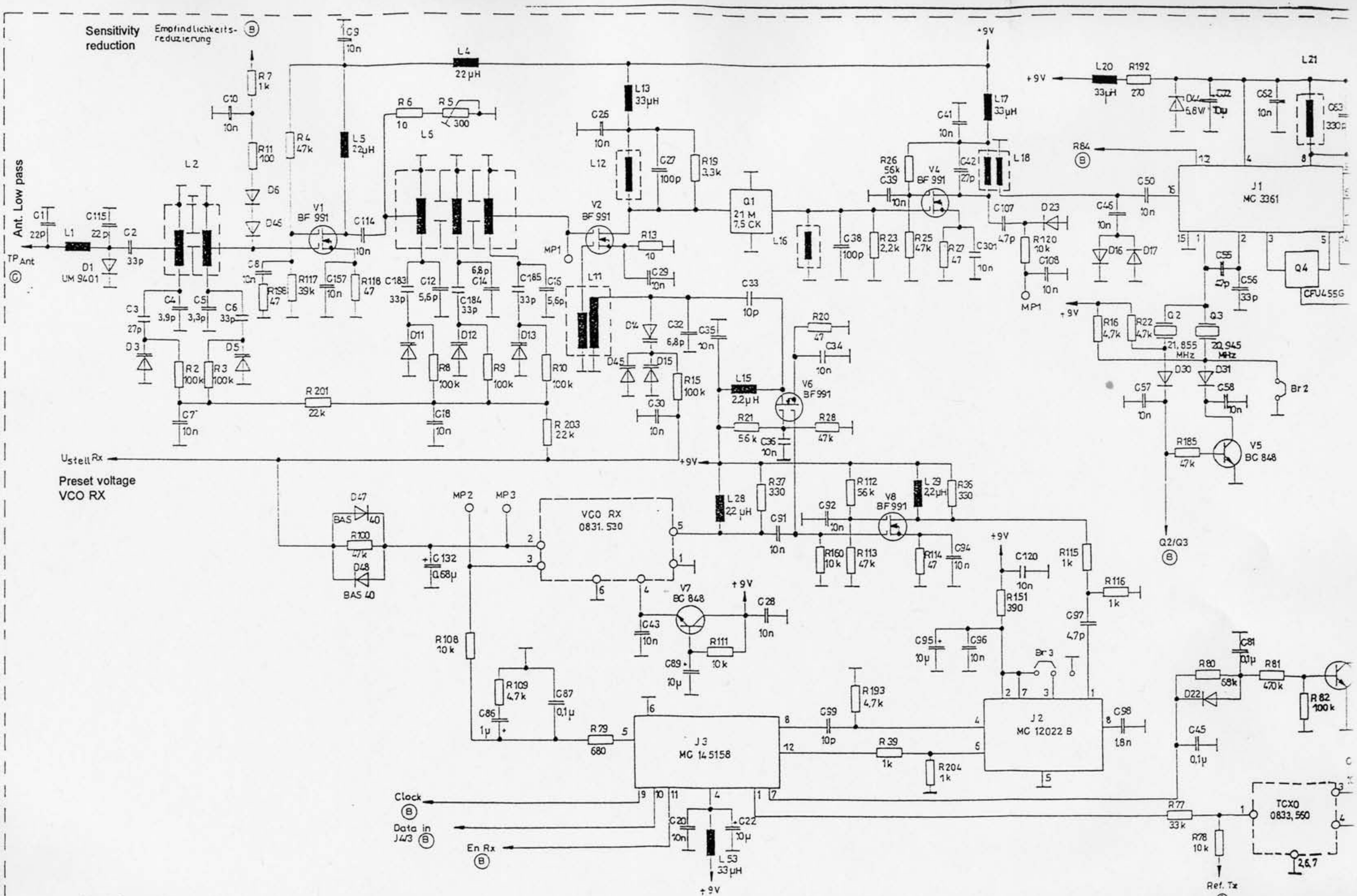
CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R160	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R161	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R162	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R163	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R164	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R165	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R166	0050900123S	CHIP RES. 12 K 5% 0,125W 1206!
R167	0050900272S	CHIP RES. 2,7 K 5% 0,125W 1206!
R168	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R169	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R170	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R171	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R172	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R173	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R174	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R175	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R176	0050900151S	CHIP RES. 150 R 5% 0,125W 1206!
R177	0050110181	RESISTOR BB 180 OHM 0,25W
R178	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R179	0053150303S	SMD TRIMMER 30 K LIN. MUR !
R180	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !
R181	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R182	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R183	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R184	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R185	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R186	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R187	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R188	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R190	0050900001S	CHIP RES. 0 R (JUMPER)1206 !
R191	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R192	0050900271S	CHIP RES. 270 R 5% 0,125W 1206!
R193	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R196	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R198	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R201	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R203	0050110223	RESISTOR BB 22 K 0,25W
R204	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R237	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R298	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R299	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
U001	+0831250050101	SQUELCH (BLACK) 12,5 KHZ SE 550
U002	+0831280050601	LOW PASS TX (BLUE) SE 550
U003	+0831290050601	LOW PASS RX (BLUE) SE 550
U004	+0832510060002	VCO-RX CPL. SE 550 08
U005	+0832510060502	VCO-TX CPL. SE 550-08
U006	+0833564060001	TCXO 8PPM GREEN SE 550
V001	0044920991S	SMD MOS-FET TR. BF991 M91 VAL!
V002	0044920991S	SMD MOS-FET TR. BF991 M91 VAL!
V004	0044920991S	SMD MOS-FET TR. BF991 VAL !
V005	0046930848S	SMD NPN-TR. BC 848C 1L VAL !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
V006	0044920991S	SMD MOS-FET TR. BF991 VAL !
V007	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V008	0044920991S	SMD MOS-FET TR. BF991 VAL !
V009	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V010	0046930807S	SMD PNP-TR. BC807-16 AF AMP!
V012	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V013	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V016	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V017	0044920991S	SMD MOS-FET TR. BF991 VAL !
V018	0044920991S	SMD MOS-FET TR. BF991 VAL !
V019	0046901019S	SMD NPN-TR. BFQ19S RF AMP.!
V020	0046901019S	SMD NPN-TR. BFQ19S RF AMP.!
V021	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V022	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V024	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V025	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V026	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V027	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V028	0046930807S	SMD PNP-TR. BC807-16 AF AMP!
V030	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
W001	8310634074	VCO FRAME -03
W003	0014000010	GUIDE BUSH 5204-4012 ELCO**
Z001	0007013340	ADHESIVE LABEL EEB 12 0615 PW

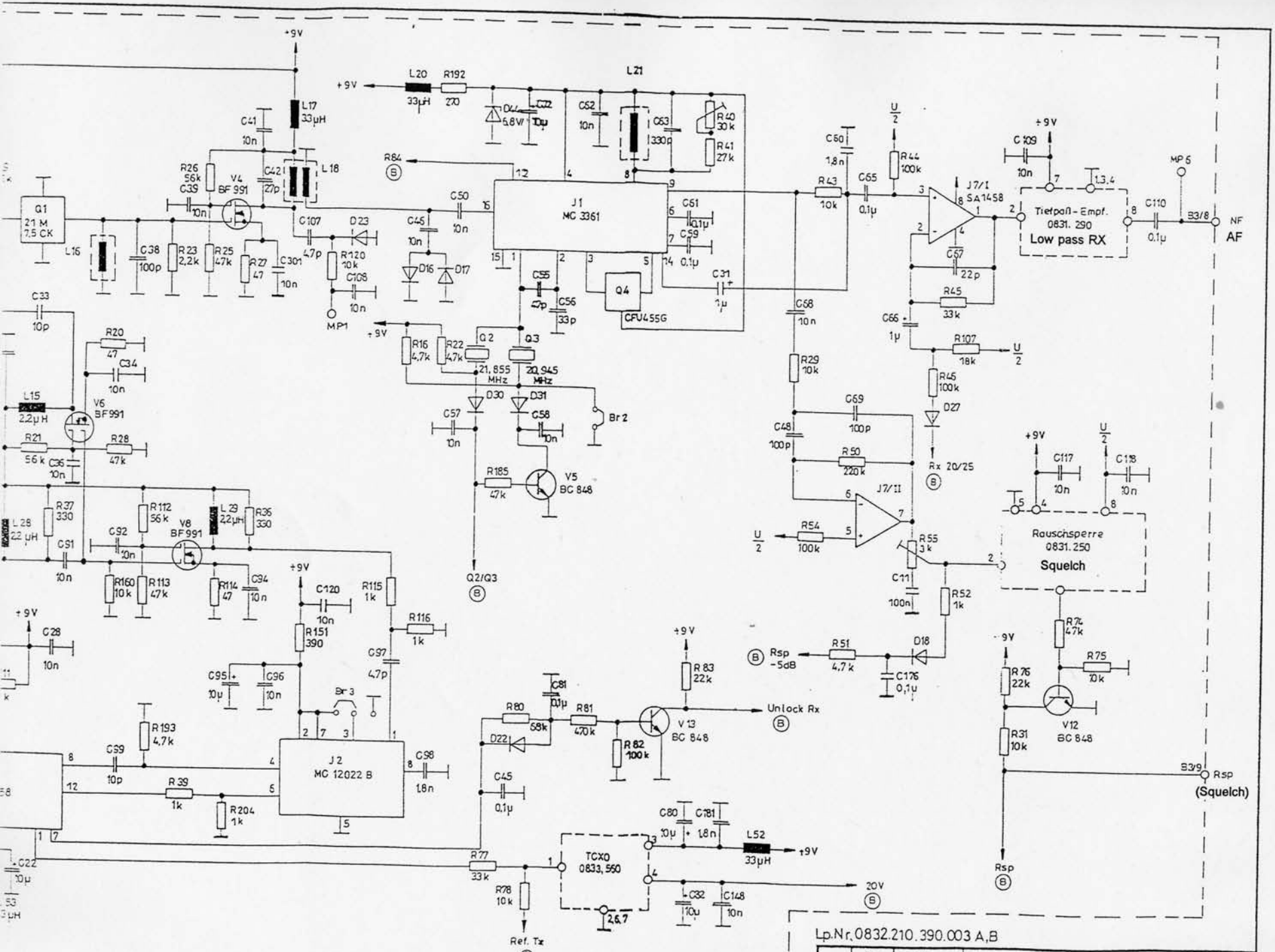
END



Not designated diodes are LL 4148

Nicht bezeichnete Dioden LL4148
D3, D5, D8 - D13 = BB 219
D6, D24, D25, D30, D31, D46 = BA 885

L1	= BV 0832.000.500.010
L2	= BV 39.832.104
L6	= BV 39.832.107
L11	= BV 39.832.108
L12, L16	= BV 39.852.108
L18	= BV 39.852.110
L21	= BV 39.852.114



Lp.Nr. 0832.210.390.003 A,B

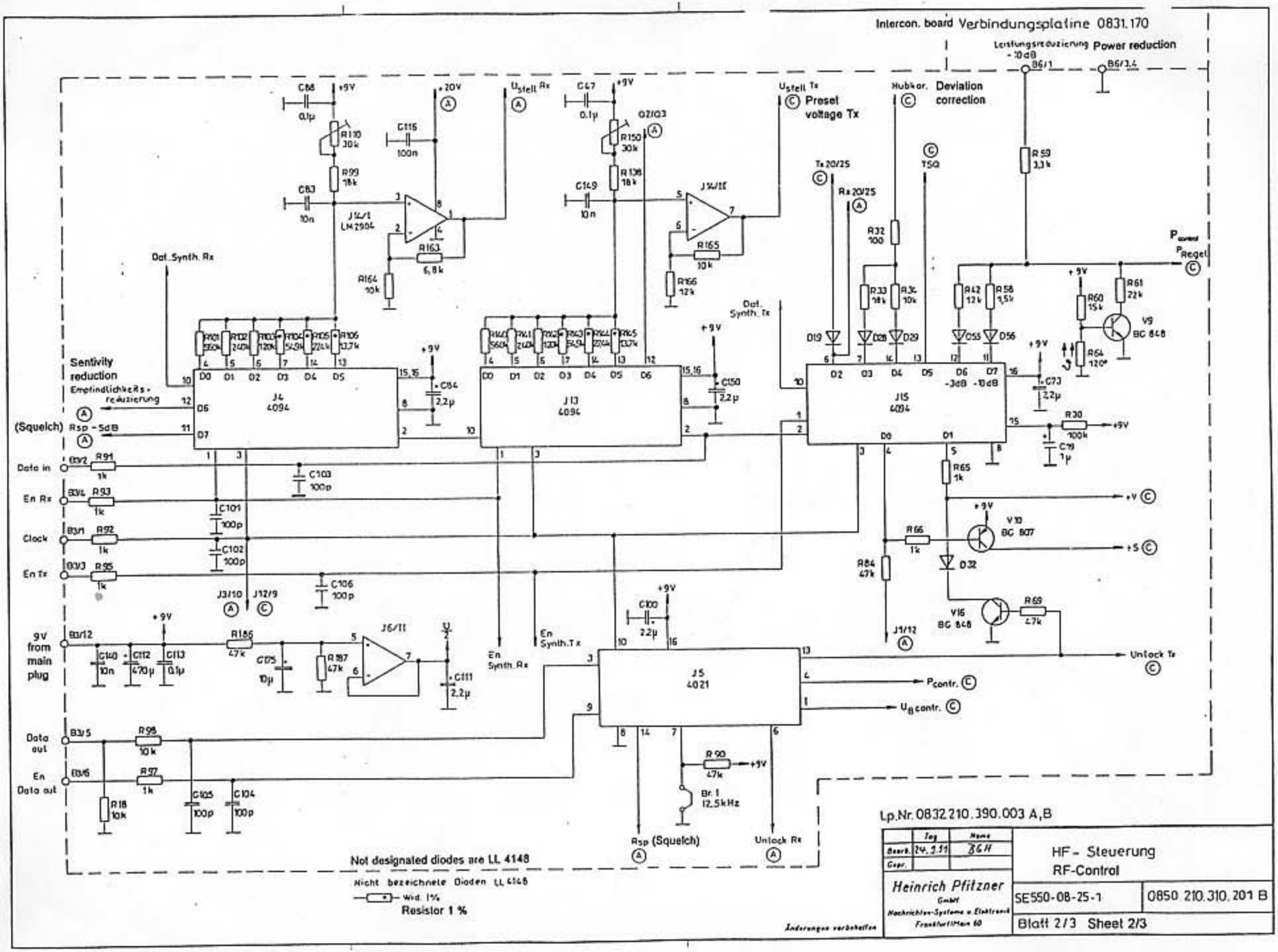
	Tag	Name
Bearb.	24.9.91	BGH
Gepr.		

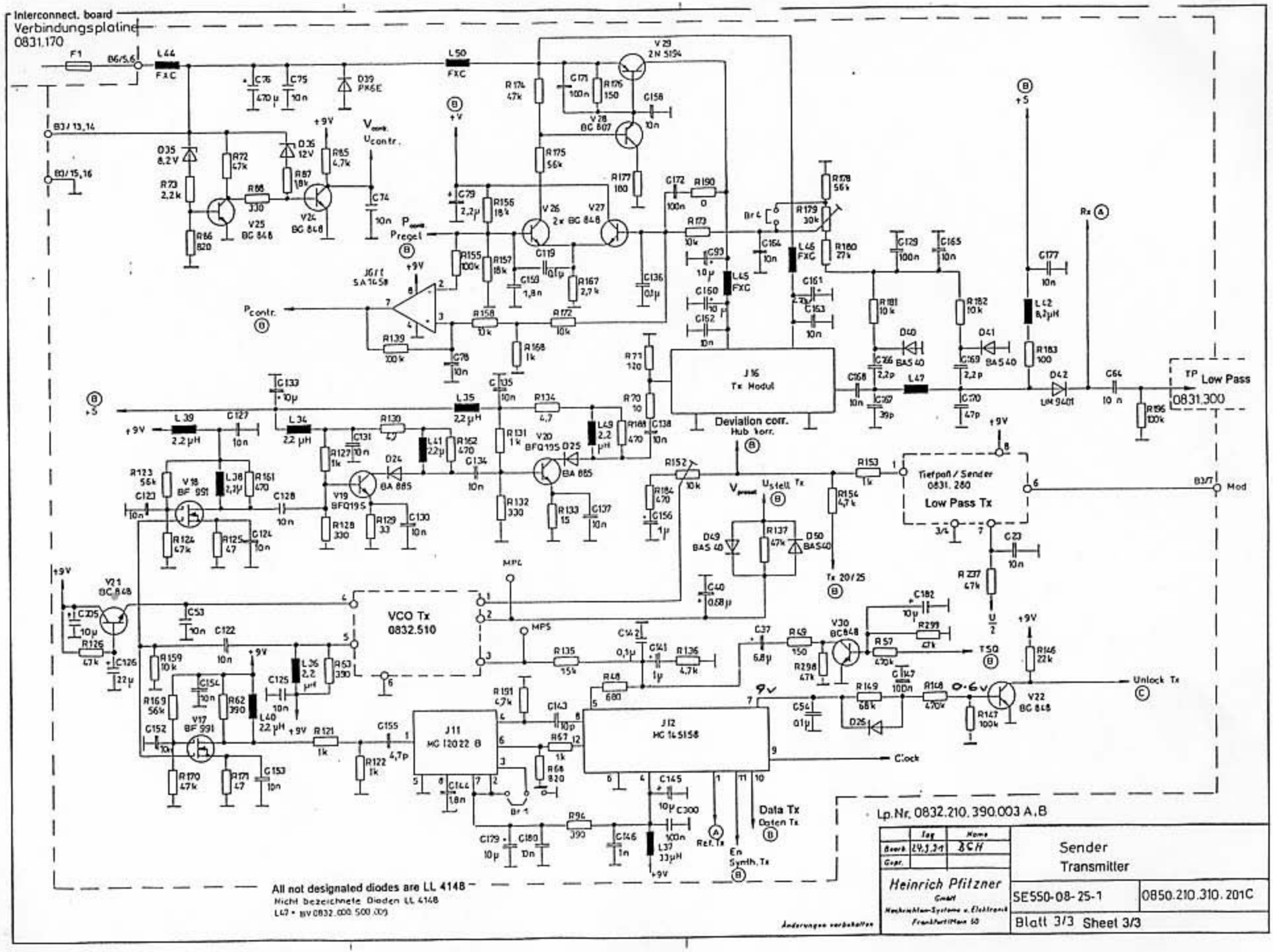
Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik

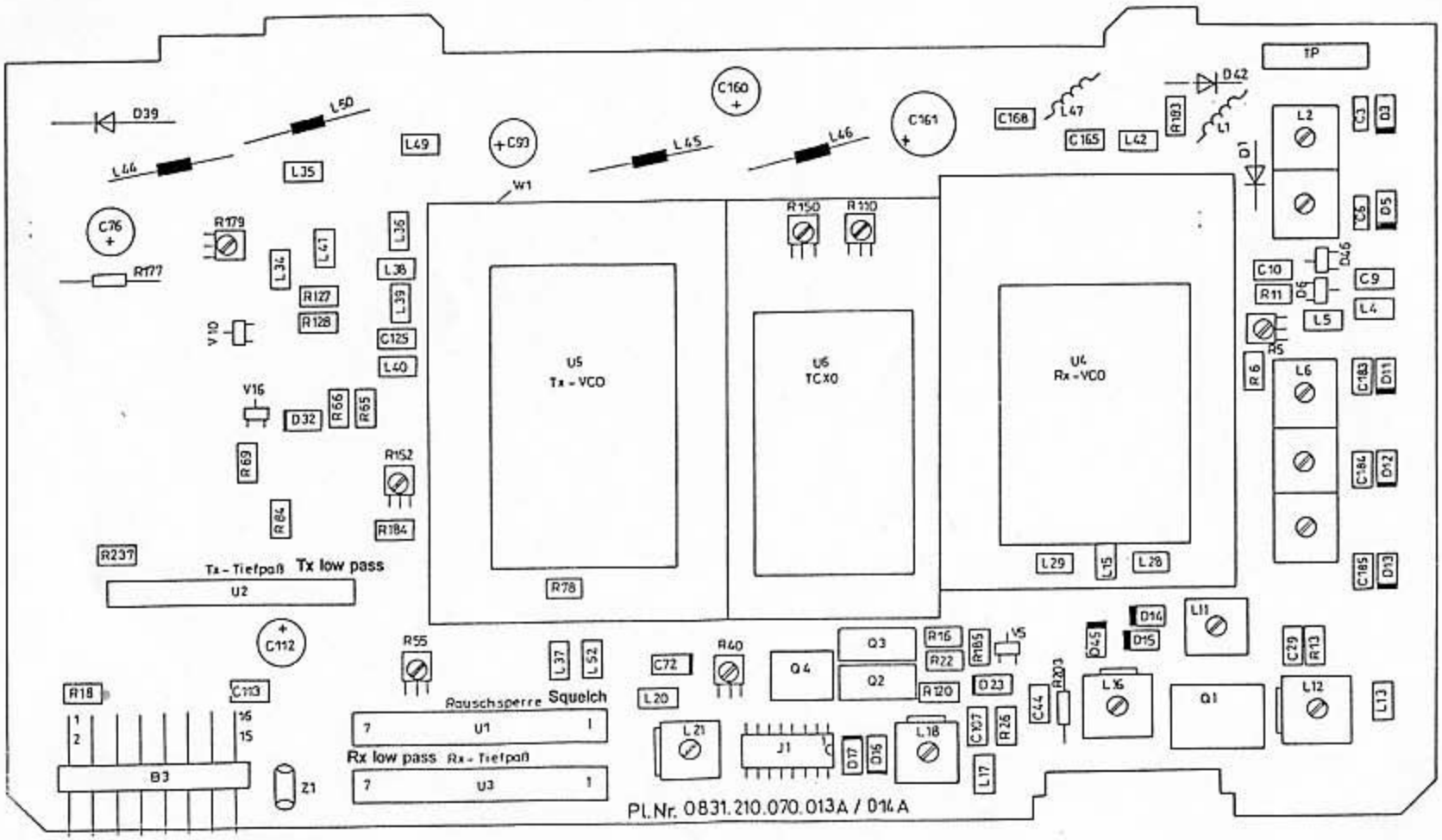
Empfänger
Receiver

SE550-08-25-1

0850.210.210.201 A


Intercon. board Verbindungsplatine 0831.170
Leistungsreduzierung -10dB
Power reduction
Preset voltage Tx
Deviation correction
Sentivity reduction
Empfindlichkeits-reduzierung
(Squelch)
Data in
En Rx
Clock
En Tx
9V from main plug
Data out
En Data out
En Synth. Rx
En Synth. Tx
Unlock Tx
Unlock Rx
Not designated diodes are LL 4148
Nicht bezeichnete Dioden LL 4148
Resistor 1 %
Lp.Nr. 0832.210.390.003 A,B
HF - Steuerung
RF-Control
Heinrich Pfitzner GmbH
SE550-08-25-1
0850 210.310.201 B
Blatt 2/3 Sheet 2/3


Interconnect. board
Verbindungsplatine
0831.170
J16 Tx Modul
Deviation corr.
Hub korr.
Tiefpaß / Sender
0831. 280
Low Pass Tx
TP Low Pass
0831.300
VCO Tx
0832.510
J11
MC 12022 B
J12
MC 145158
Clock
Data Tx
Daten Tx
Ref. Tx
En
Synth. Tx
Unlock Tx
Mod
All not designated diodes are LL 4148
Nicht bezeichnete Dioden LL 4148
L47 = BV 0832.000.500.009
Lp.Nr. 0832.210.390.003 A,B
Sender
Transmitter
SE550-08-25-1
0850.210.310.201C
Blatt 3/3 Sheet 3/3
Heinrich Pfitzner GmbH
Nachrichten-Systeme + Elektronik
Frankfurt/Main 50



Sp. Nr. 0832.210.310.002 A,B,C / 101 A,B,C

	Tag	Name
Bearb.	14.3.80	B G H
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt-Main 60

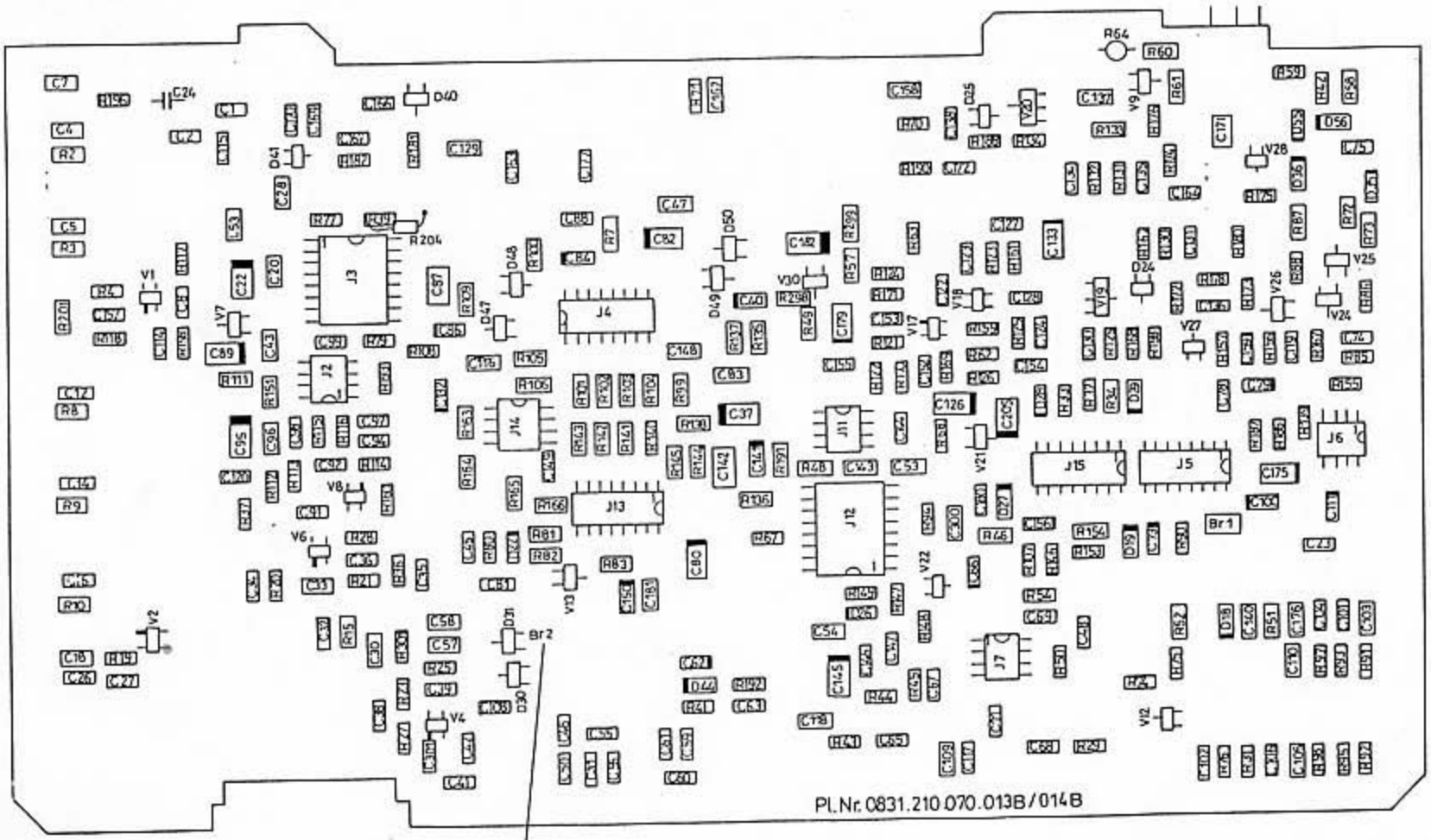
HF-Stufe
RF Stage

SE 550 - 08

0832.210.390.002A

10

Änderungen vorbehalten



Br. 2 muß offen sein
Jumper Br. 2 must be open

Sp. Nr. 0832.210.310.002 A,B,C / 101 A,B,C

	Tag	Name
Bearb.	14.3.80	Gäh
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 50

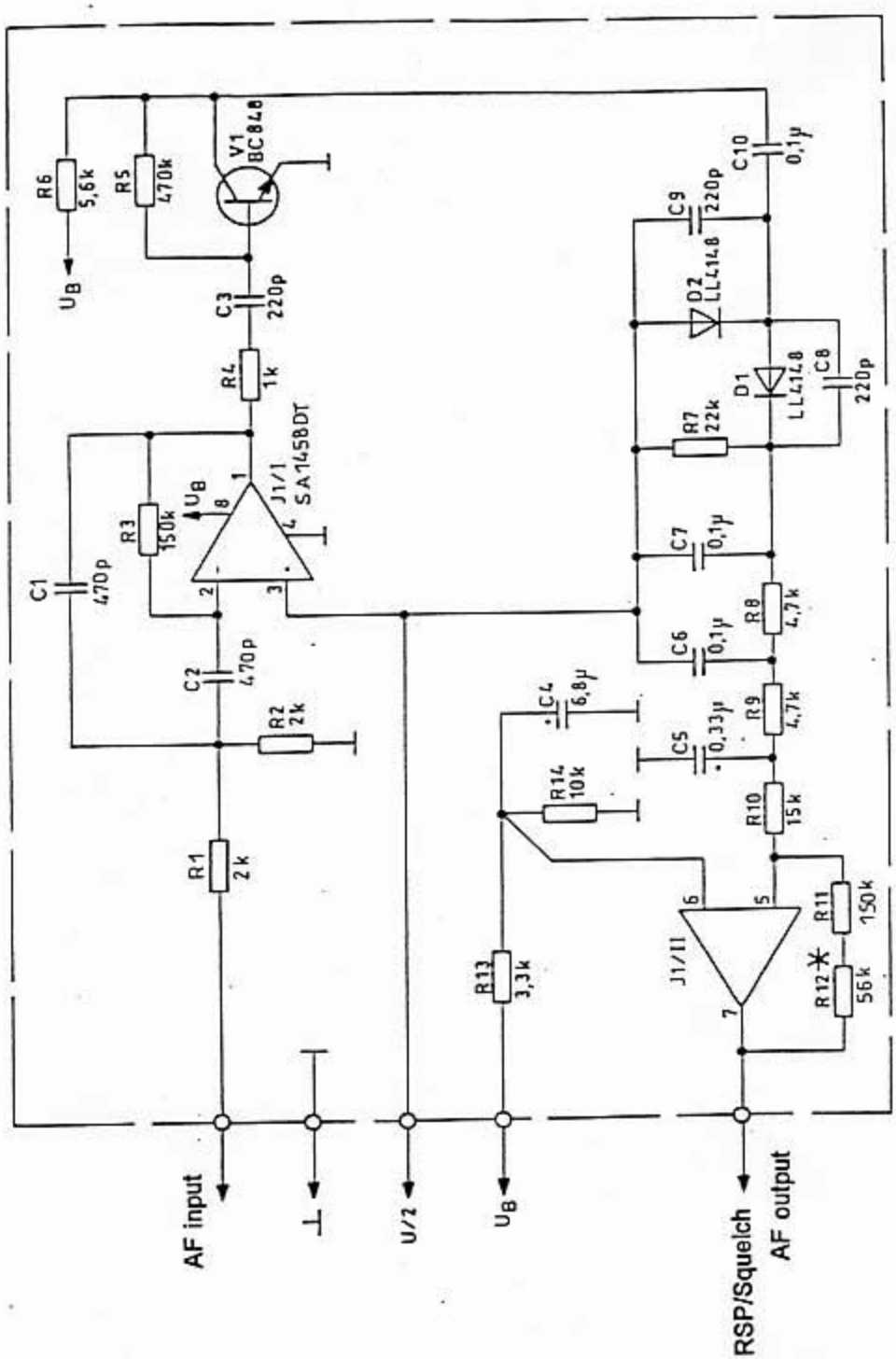
HF-Stufe
RF Stage

SE 550-08 | 0832 210.390.002B

SQUELCH (BLACK) 12.5 KHZ SE550 CHANGE NO. 02

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831250070006	BOARD DK 27 X 15 MM
A002	+0831250490003	PCB LAYOUT -01
A003	+0831250410101	CIRCUIT DIAGRAM
C001	0061341471S	CER. CAP. 470PF 63V NPO 1206 !
C002	0061341471S	CER. CAP. 470PF 63V NPO 1206 !
C003	0061341221S	CER. CAP.220PF 63V NP O 1206 !
C004	0068020685S	TAN. CAP. 6,8UF 20V 10% GR.F!
C005	0068025334S	TAN. CAP. 0,33UF 25V GR.A!
C006	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C007	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C008	0061341221S	CER. CAP.220PF 63V NP O 1206 !
C009	0061341221S	CER. CAP.220PF 63V NP O 1206 !
C010	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
D001	0040624148S	SMD DIODE LL4148 !
D002	0040624148S	SMD DIODE LL4148 !
J001	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
R001	0050900202S	CHIP RES. 2,0 K 5% 0,125W 1206!
R002	0050900202S	CHIP RES. 2,0 K 5% 0,125W 1206!
R003	0050900154S	CHIP RES. 150 K 5% 0,125W 1206!
R004	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R005	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R006	0050900562S	CHIP RES. 5,6 K 5% 0,125W 1206!
R007	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !
R008	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R009	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R010	0050900153S	CHIP RES. 15 K 5% 0,125W 1206!
R011	0050900154S	CHIP RES. 150 K 5% 0,125W 1206!
R012	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R013	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R014	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
V001	0046930848S	SMD NPN-TR. BC 848C 1L VAL !

END



* Test department value

Lp. Nr. 0831.250.490.003

	Tag	Name
Bearb.	14.1.91	B CH
Gepr.		

PFITZNER TELETRON
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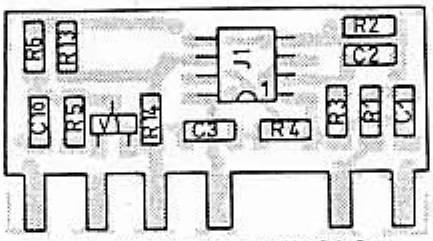
Frankfurt/Main 60

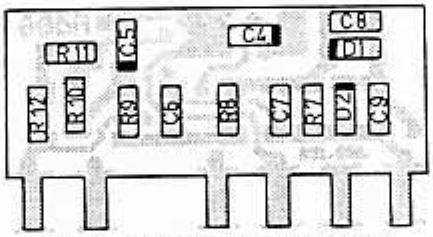
Änderungen vorbehalten

Rauschsperre 12,5 kHz
Squelch

SE 550 | 0831.250.410.10



Pl. Nr. 0831.250.070.006 B



Pl.Nr. 0831.250.070.006 A

Sp.Nr. 0831.250.410.002

	Tag	Name	
Bearb.	26.8.85	B G H	Rauschsperre Squelch
Gepr.			

PFITZNER TELETRON
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Nachrichten-Systeme u. Elektronik
Frankfurt Main 60

SE 550 | 0831.250.490.003

01

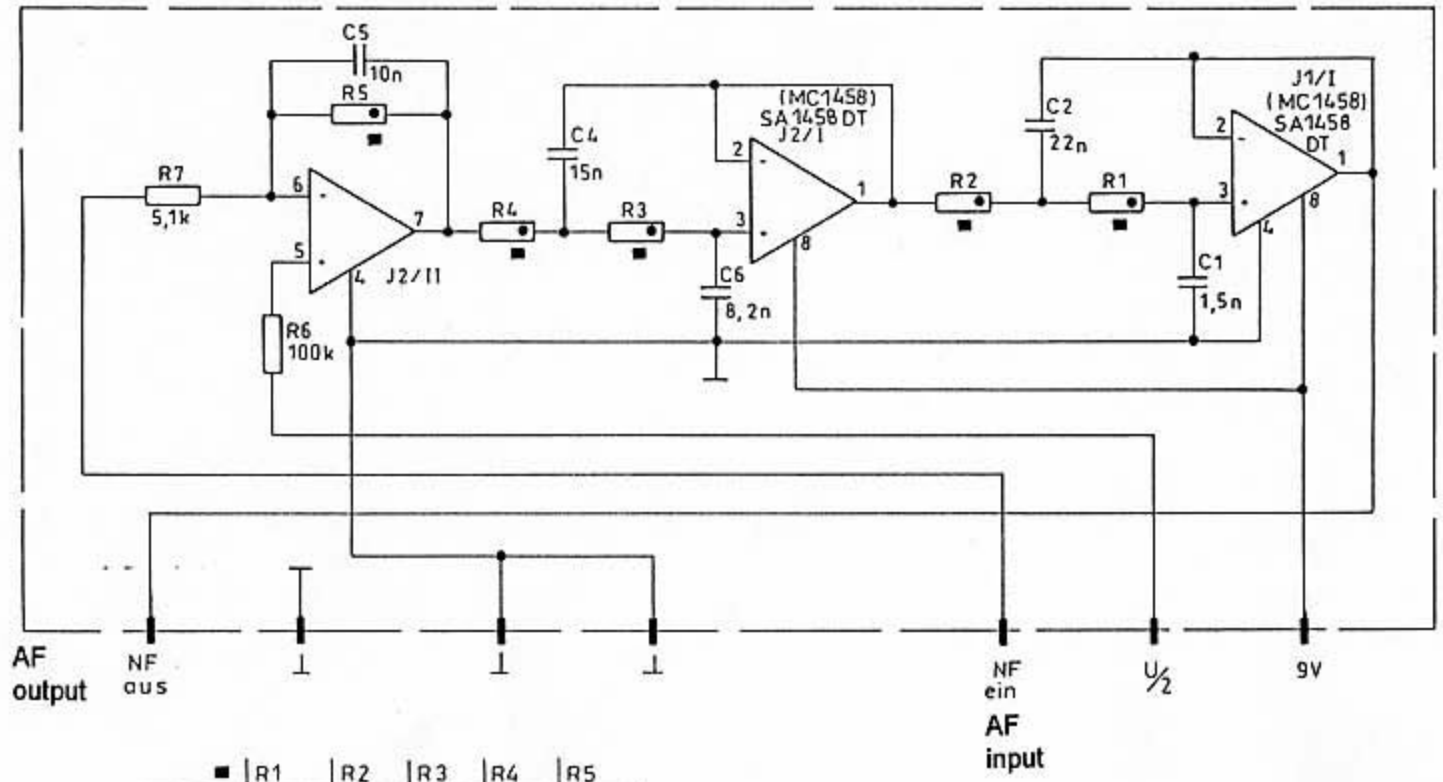
Änderungen vorbehalten

LOW PASS TX 12,5 KHZ(BLUE) SE 550 CHANGE NO.

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831280070005	BOARD DK 27,09 X 14,61 MM
A002	+0831280490003	PCB LAYOUT
A003	+0831280410002	CIRCUIT DIAGRAM -02
C001	0063100152S	SMD FOIL-CAP. 1,5NF 25V 5% E1 !
C002	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1 !
C004	0063100153S	SMD FOIL-CAP. 15 NF 25V 5% E1 !
C005	0063100103S	SMD FOIL-CAP. 10 NF 25V 5% E1 !
C006	0063100822S	SMD FOIL-CAP. 8,2NF 25V 5% E1 !
J001	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
J002	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.
R001	0050804549S	SDM RES. 5,49 K 1% 0,25W !
R002	0050805178S	SMD RES. 17,80 K 1% 0,25W !
R003	0050804332S	SMD RES. 3,32 K 1% 0,25W !
R004	0050804768S	SMD RES. 7,68 K 1% 0,25W !
R005	0050804562S	SMD RES. 5,62 K 1% 0,25W !
R006	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R007	0050900512S	CHIP RES. 5,1 K 5% 0,125W 1206!

END

Änderungen vorbehalten



■	R1	R2	R3	R4	R5
12,5kHz	5,49k	17,80k	3,32k	7,68k	5,62k
20/25kHz	4,53k	15k	2,8k	6,65k	4,75k

	Tag	Name
Bearb	25.8.81	RGH
Gepr.		

PFITZNER TELETRON
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

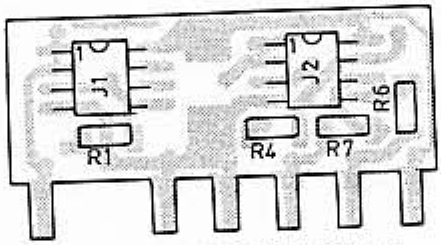
Lp. Nr. 0831.280.490.003

Tiefpass Sender
Low Pass Tx

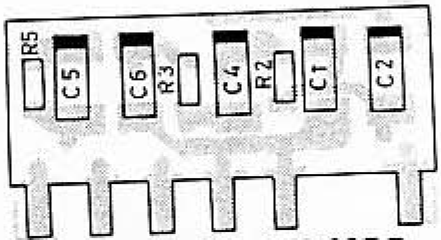
SE 550

0831.280.410.002

02



Pl. Nr. 0831.280.070.005 A



Pl. Nr. 0831.280.070.005 B

Sp.Nr. 0831.280.410.002

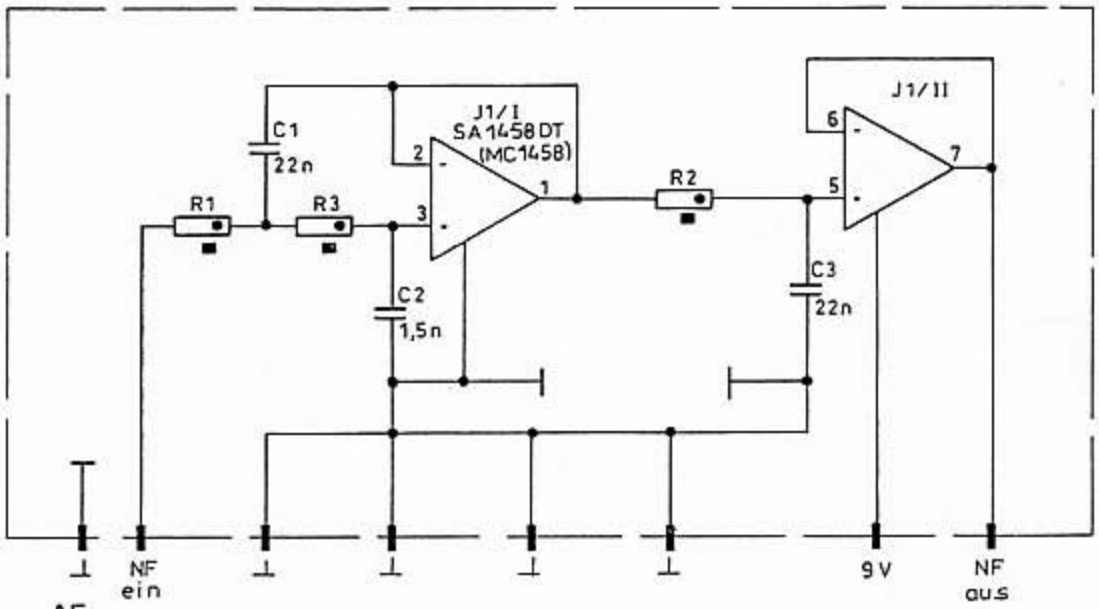
	Tag	Name	
Bearb.	25.8.80	BGH	Tiefpaß-Sender Low Pass Tx
Gepr.			
PFITZNER TELETRON Ein Unternehmen der ascom Nachrichten-Systeme u. Elektronik Frankfurt/Main 60			SE 550 | 0831.280.490.003

Änderungen vorbehalten

LOW PASS RX 12,5 KHZ(BLUE) SE 550 CHANGE NO.

POSITION	ARTICLE NUMBER	DESCRIPTION	
A001	8312907004	BOARD DK 27 X 15 MM	
A002	+0831290490002	PCB LAYOUT	
A003	+0831290410001	CIRCUIT DIAGRAM -04	
C001	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1	!
C002	0063100152S	SMD FOIL-CAP. 1,5NF 25V 5% E1	!
C003	0063100223S	SMD FOIL-CAP. 22 NF 25V 5% E1	!
J001	0048901459S	SMD IC SA1458DT 2-F.OP.AMP.	
R001	0050804634S	SMD RES. 6,34 K 1% 0,25W	!
R002	0050804453S	SMD RES. 4,53 K 1% 0,25W	!
R003	0050805165S	SMD RES. 16,50 K 1% 0,25W	!

END



■	R1	R2	R3
12,5 kHz	6,34k	4,53k	16,5k
20/25 kHz	15,00k	3,92k	5,49k

Lp. Nr. 0831.290.490.002

	Tag	Name
Bearb.	10.5.89	BGH
Gepr.		

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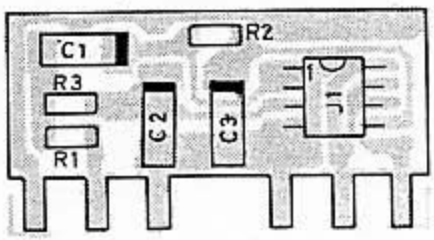
Frankfurt/Main 60

Änderungen vorbehalten

Tiefpass Empfänger
Low Pass Rx

SE 550	0831.290.410.001

04



Pl. Nr. 831.29.07.004

Sb. Nr. 0831. 290. 410.001

	Tag	Name
Bearb.	23.5.89	Pfopfer
Gepr.		

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Frankfurt/Main 60

Änderungen vorbehalten

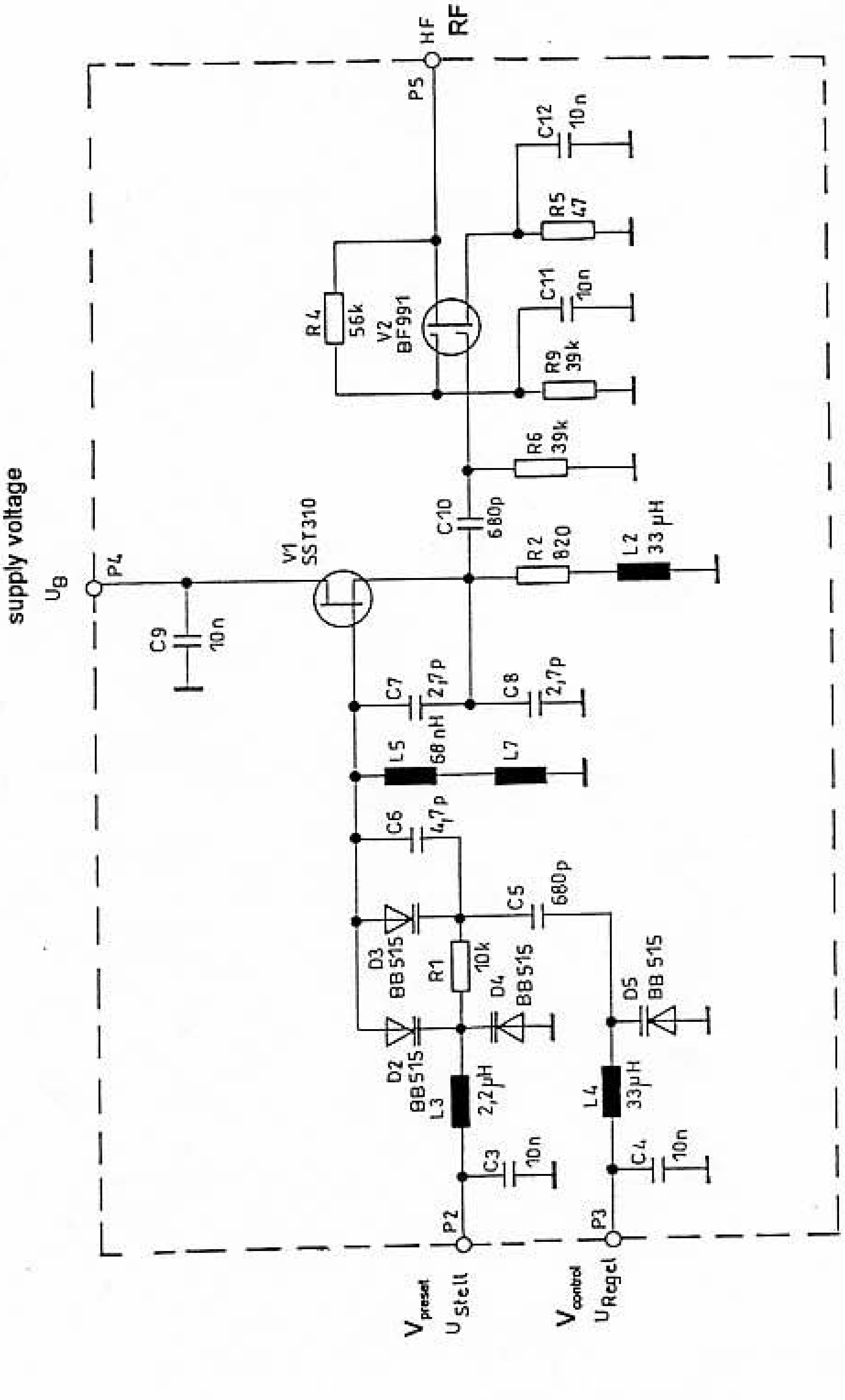
Tiefpaß-Empfänger
Low Pass Rx

SE 550 | 0831. 290. 490.002

VCO RX (BLUE) SE 550-08 CHANGE NO. 02

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0832510070002	BOARD DK
A002	+0832510490002	PCB LAYOUT
A003	+0832510410002	CIRCUIT DIAGRAM
C003	0061345103S	CER. CAP. 10NF 63V X7R 0805
C004	0061345103S	CER. CAP. 10NF 63V X7R 0805
C005	0061340681S	CER. CAP. 680PF 63V NPO 0805
C006	0061340047S	CER. CAP. 4,7PF 63V NP0 0805
C007	0061340027S	CER. CAP. 2,7PF 63V NP0 0805
C008	0061340027S	CER. CAP. 2,7PF 63V NP0 0805
C009	0061345103S	CER. CAP. 10NF 63V X7R 0805
C010	0061340681S	CER. CAP. 680PF 63V NPO 0805
C011	0061345103S	CER. CAP. 10NF 63V X7R 0805
C012	0061345103S	CER. CAP. 10NF 63V X7R 0805
D002	0040050515S	SMD PIN-DIODE BB 515B WS/S
D003	0040050515S	SMD PIN-DIODE BB 515B WS/S
D004	0040050515S	SMD PIN-DIODE BB 515B WS/S
D005	0040050515S	SMD PIN-DIODE BB 515B WS/S
L002	0031500330S	CHIP CHOKE 33UH
L003	0031500022S	CHIP CHOKE 2,2UH
L004	0031500330S	CHIP CHOKE 33UH
L005	0031502680S	CHIP CHOKE 68NH 10% COIL.
P001	0014000051	PIN 9,65MM 76151-002 DP
P002	0014000051	PIN 9,65MM 76151-002 DP
P003	0014000051	PIN 9,65MM 76151-002 DP
P004	0014000051	PIN 9,65MM 76151-002 DP
P005	0014000051	PIN 9,65MM 76151-002 DP
P006	0014000051	PIN 9,65MM 76151-002 DP
P007	0014000054	PIN 11,68MM 76151-003 DP
R001	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206
R002	0050900821S	CHIP RES. 820 R 5% 0,125W 1206
R004	0050900563S	CHIP RES. 56 K 5% 0,125W 1206
R005	0050900470S	CHIP RES. 47 R 5% 0,125W 1206
R006	0050900393S	CHIP RES. 39 K 5% 0,125W 1206
R009	0050900393S	CHIP RES. 39 K 5% 0,125W 1206
V001	0044930310S	SMD JFET-TRANS. SST 310 SIL
V002	0044920991S	SMD MOS-FET-TR. BF991 M91 VAL

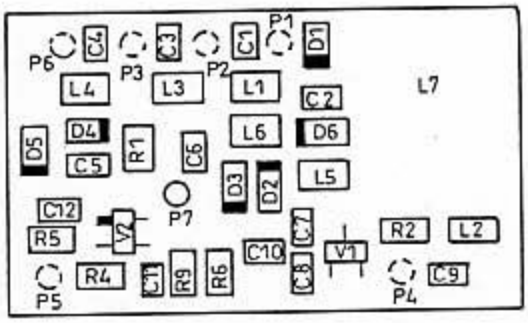
END



Lp. Nr. 0832.510.490.002

	Tag	Name	VCO - Empfänger VCO Rx	
Bearb.	2.5.90	BGH		
Gepr.				
PFITZNER TELETRON Ein Unternehmen der ascom Nachrichten-Systeme u. Elektronik Frankfurt/Main 60			SE 550	0832.510.410.002

Änderungen vorbehalten



Pl.Nr.0832.510.070.002

P1 - P6 von Lötseite bestückt

P1-P6 are mounted on the soldering side

Sp.Nr.0832.510.410.002 /502

	Tag	Name
Bearb.	25.4.90	BCH
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

VCO

SE 550-08 | 0832.510.490.002

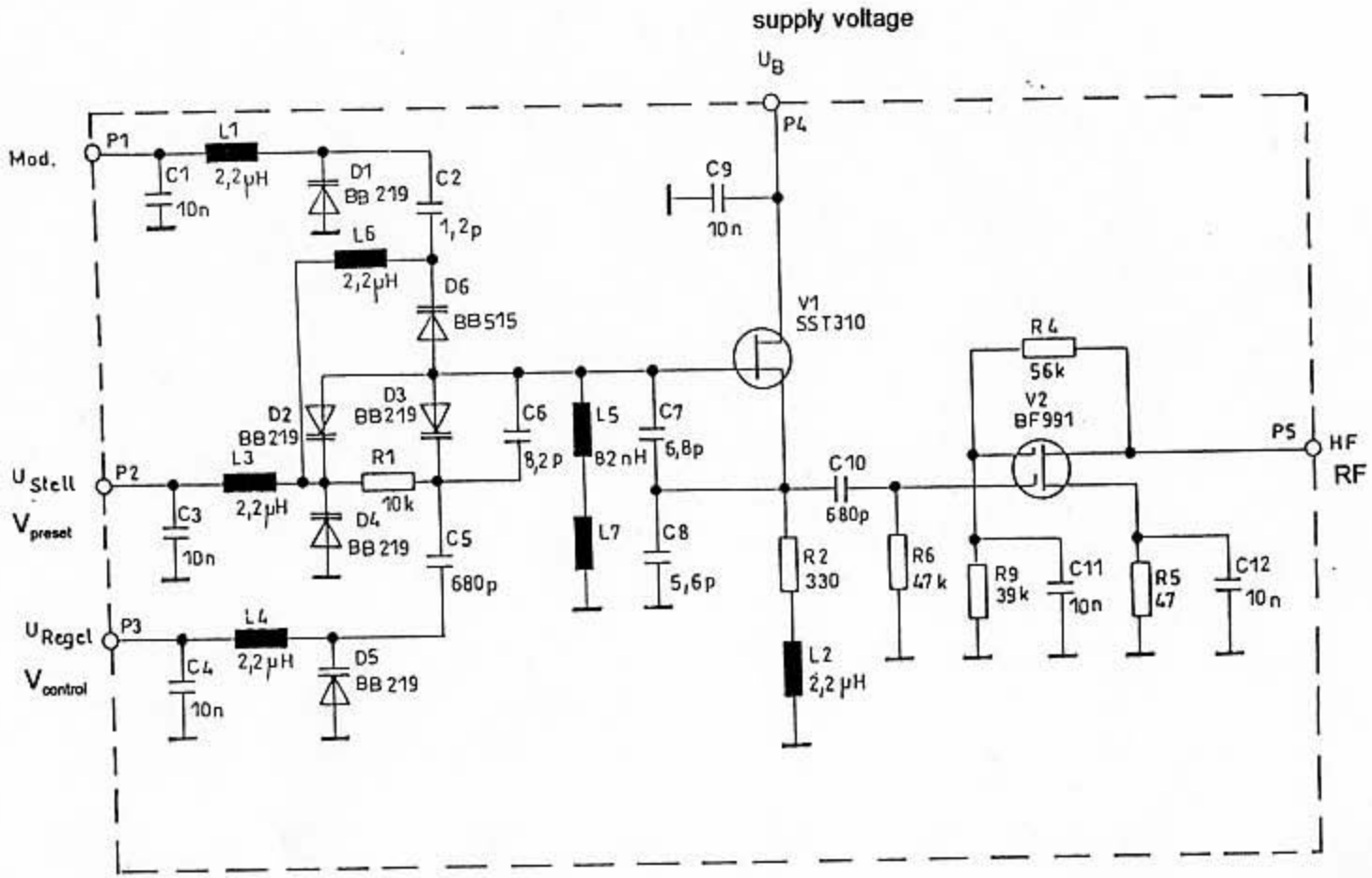
Änderungen vorbehalten

VCO TX (BLUE) SE 550-08 CHANGE NO. 02

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0832510070002	BOARD DK 33 X 22 MM
A002	+0832510490002	PCB LAYOUT
A003	+0832510410502	CIRCUIT DIAGRAM -01
C001	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C002	0061340012S	CER. CAP. 1,2PF 63V NP0 0805 !
C003	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C004	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C005	0061340681S	CER. CAP. 680PF 63V NPO 0805 !
C006	0061340082S	CER. CAP. 8,2PF 63V NPO 0805 !
C007	0061340068S	CER. CAP. 6,8PF 63V NP0 0805 !
C008	0061340056S	CER. CAP. 5,6PF 63V NP0 0805 !
C009	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C010	0061340681S	CER. CAP. 680PF 63V NPO 0805 !
C011	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C012	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
D001	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D002	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D003	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D004	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D005	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D006	0040050515S	SMD PIN-DIODE BB 515B WS/S !
L001	0031500022S	CHIP CHOKE 2,2UH !
L002	0031500022S	CHIP CHOKE 2,2UH !
L003	0031500022S	CHIP CHOKE 2,2UH !
L004	0031500022S	CHIP CHOKE 2,2UH !
L005	0031502820S	CHIP CHOKE 82NH 10% COIL.!
L006	0031500022S	CHIP CHOKE 2,2UH !
P001	0014000051	PIN 9,65MM 76151-002 DP
P002	0014000051	PIN 9,65MM 76151-002 DP
P003	0014000051	PIN 9,65MM 76151-002 DP
P004	0014000051	PIN 9,65MM 76151-002 DP
P005	0014000051	PIN 9,65MM 76151-002 DP
P006	0014000051	PIN 9,65MM 76151-002 DP
P007	0014000054	PIN 11,68MM 76151-003 DP
R001	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R002	0050900331S	CHIP RES. 330 R 5% 0,125W 1206!
R004	0050900563S	CHIP RES. 56 K 5% 0,125W 1206!
R005	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R006	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R009	0050900393S	CHIP RES. 39 K 5% 0,125W 1206 !
V001	0044930310S	SMD JFET-TRANS. SST 310 SIL !
V002	0044920991S	SMD MOS-FET-TR. BF991 M91 VAL!

END

Änderungen vorbehalten



Lp.Nr. 0832.510.490.002

PFITZNER TELETRON
Hochrichten-Systeme u. Elektronik
Frankfurt/Main 60

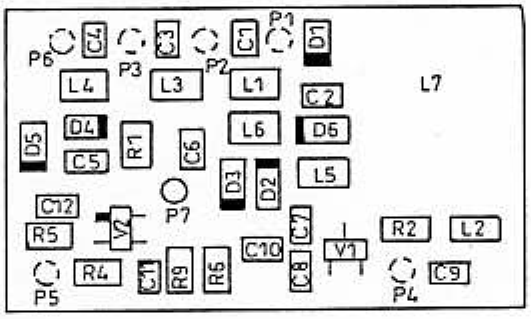
	Tag	Name
Gepr.		
Bearb.	2.5.90	BGH

VCO - Sender
VCO Tx

SE 550

0832.510.410.502

01



Pl.Nr.0832.510.070.002

P1 - P6 von Lötseite bestückt

P1-P6 are mounted on the soldering side

Sp.Nr.0832.510.410.002 /502

	Tag	Name	
Bearb.	25.4.90	BCH	VCO
Gepr.			
PFITZNER TELETRON Ein Unternehmen der ascom Nachrichten-Systeme u. Elektronik Frankfurt/Main 60			SE 550-08 | 0832.510.490.002

Änderungen vorbehalten

S T A N D A R D P A R T S L I S T

+0833564060001 TCXO 8PPM GREEN SE 550

CHANGE NO. 0

ARTICLE NUMBER	QUANTITY	DESCRIPTION		
+0833560060001	1	TCXO	SE 550 UHF	#

END

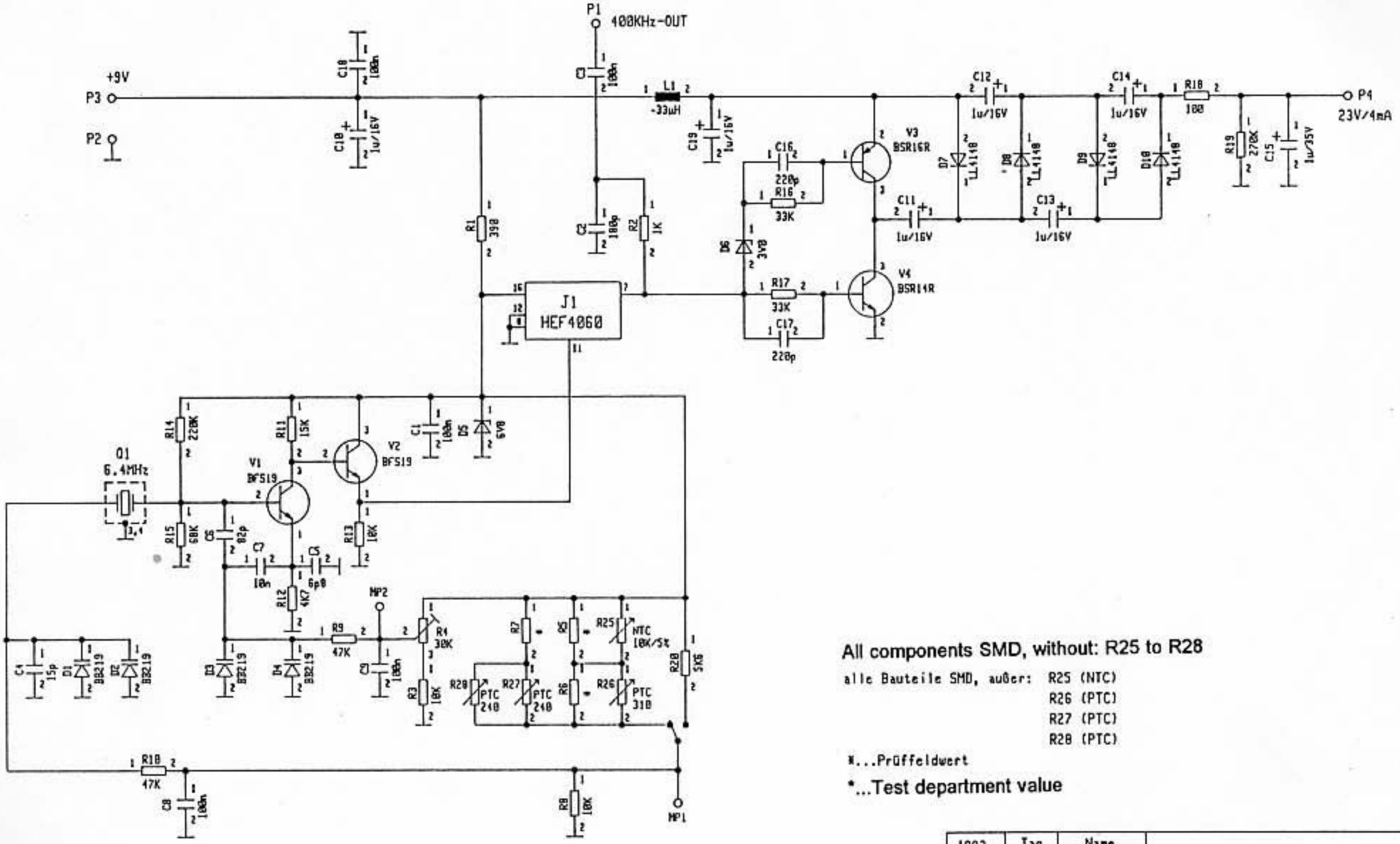
TCXO SE 550 CHANGE NO. 10

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831560070010	BOARD DK 30 X 18,4 MM
A002	+0833560490002	PCB LAYOUT A,B -02
A003	+0833560410001	CIRCUIT DIAGRAM -02
C001	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C002	0061340181S	CER. CAP. 180PF 63V NP0 0805 !
C003	0061345472S	CER. CAP. 4,7NF 50V X7R 0805 !
C004	0061340150S	CER. CAP. 15PF 63V NP0 0805 !
C005	0061340068S	CER. CAP. 6,8PF 63V NP0 0805 !
C006	0061340820S	CER. CAP. 82PF 63V NP0 0805 !
C007	0061345472S	CER. CAP. 4,7NF 50V X7R 0805 !
C008	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C009	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C010	0068116105S	TAN. CAP. 1UF 16V 10% !
C011	0068116105S	TAN. CAP. 1UF 16V 10% !
C012	0068116105S	TAN. CAP. 1UF 16V 10% !
C013	0068116105S	TAN. CAP. 1UF 16V 10% !
C014	0068116105S	TAN. CAP. 1UF 16V 10% !
C015	0068135105S	TAN. CAP. 1UF 35V 10% !
C016	0061340221S	CER. CAP. 220PF 63V NP0 0805 !
C017	0061340221S	CER. CAP. 220PF 63V NP0 0805 !
C018	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C019	0068116105S	TAN. CAP. 1UF 16V 10% !
D001	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D002	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D003	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D004	0040050619S	SMD PIN-DIODE BB619 BEZ.P PHI
D005	0042202068S	SMD Z-DIODE 6,8V BZV55/C6V8 !
D006	0042202030S	SMD Z-DIODE 3,0V BZV55/C3V0 !
D007	0040624148S	SMD DIODE LL4148 !
D008	0040624148S	SMD DIODE LL4148 !
D009	0040624148S	SMD DIODE LL4148 !
D010	0040624148S	SMD DIODE LL4148 !
J001	0047440600S	SMD IC HEF 4060BT VAL
L001	0031500330S	CHIP CHOKE 33UH !
P001	0014000054	PIN 11,68MM LOSE 76151-003 DP
P002	0014000054	PIN 11,68MM LOSE 76151-003 DP
P003	0014000054	PIN 11,68MM LOSE 76151-003 DP
P004	0014000054	PIN 11,68MM LOSE 76151-003 DP
Q001	0088464001S	SMD-QUARTZ 6,40 MHZ+-7PPM TEL
R001	0050950391S	CHIP RES. 390 R 5% 0805 !
R002	0050950102S	CHIP RES. 1 K 5% 0805 !
R003	0050950103S	CHIP RES. 10 K 5% 0805 !
R004	0053150303S	SMD TRIMMER 30 K LIN. MUR !
R005	0050900000S	CHIP RES. 1206 TEST DEPARTM.VALUE !
R006	0050900000S	CHIP RES. 1206 TEST DEPARTM.VALUE !
R007	0050900000S	CHIP RES. 1206 TEST DEPARTM.VALUE !
R008	0050950103S	CHIP RES. 10 K 5% 0805 !

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R009	0050950473S	CHIP RES. 47 K 5% 0805 !
R010	0050950473S	CHIP RES. 47 K 5% 0805 !
R011	0050950153S	CHIP RES. 15 K 5% 0805 !
R012	0050950472S	CHIP RES. 4,7 K 5% 0805 !
R013	0050950103S	CHIP RES. 10 K 5% 0805 !
R014	0050950224S	CHIP RES. 220 K 5% 0805 !
R015	0050950683S	CHIP RES. 68 K 5% 0805 !
R016	0050950333S	CHIP RES. 33 K 5% 0805 !
R017	0050950333S	CHIP RES. 33 K 5% 0805 !
R018	0050950101S	CHIP RES. 100 R 5% 0805 !
R019	0050950274S	CHIP RES. 270 K 5% 0805 !
R020	0050950562S	CHIP RES. 5,6 K 5% 0805 !
R025	0050813103	NTC RES. 10 K TYP 645 5% VAL
R026	0050813004	PTC RES. (30V) P310-C11 SIE
R027	0050813003	PTC RES. (30V) P240-C11 SIE
R028	0050813003	PTC RES. (30V) P240-C11 SIE
V001	0046900019S	SMD NPN-TR. BFS19 RF AMP.!
V002	0046900019S	SMD NPN-TR. BFS19 RF AMP.!
V003	0046920016S	SMD PNP-TR. BSR 16R AMP.VAL!
V004	0046920014S	SMD NPN-TR. BSR 14R AMP.U81!
W001	8310244199	TCXO SHIELDING CAN
W002	8310244108	TCXO COVER
W003	8310244137	TCXO INSULATION

END



All components SMD, without: R25 to R28

alle Bauteile SMD, außer: R25 (NTC)
R26 (PTC)
R27 (PTC)
R28 (PTC)

*...Prüffeldwert

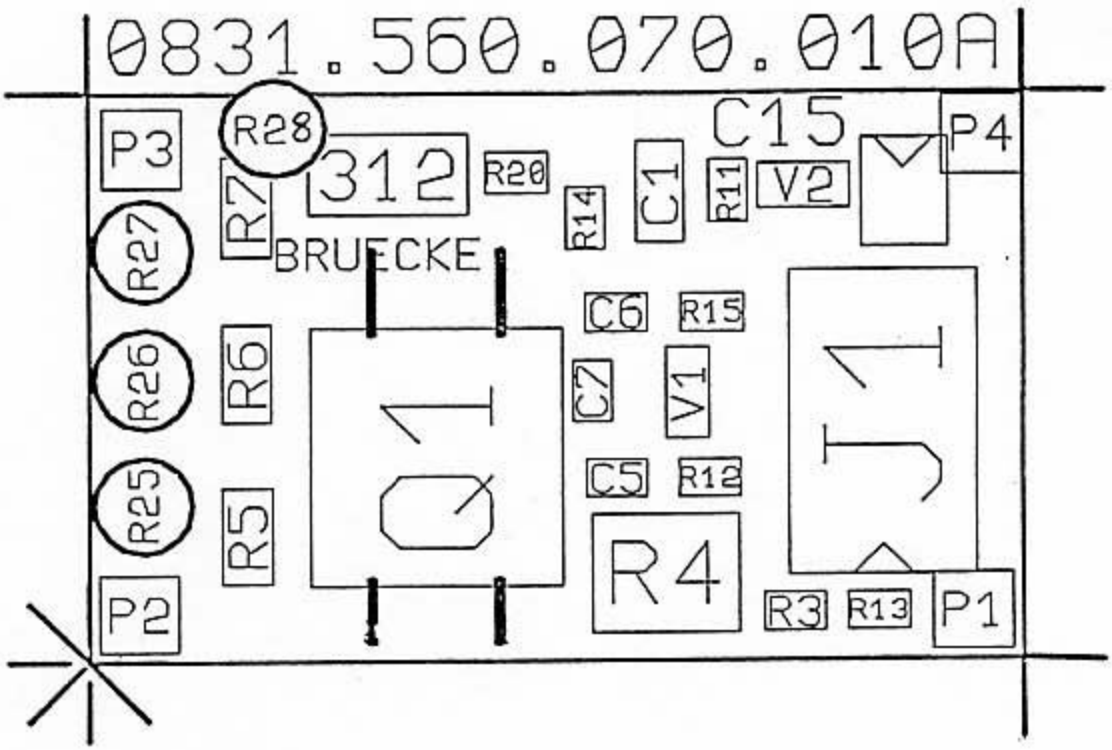
*...Test department value

1992	Tag	Name
Bearb.	13.2.	Berghammer
Gepr.		

ASCOM - Teletron GmbH
Eugen-Müller-Straße 14
A-5020 SALZBURG

TCXO

SE550	0833.560.410.001



1992	Tag	Name
Bearb.	17.2.	
Gepr.		

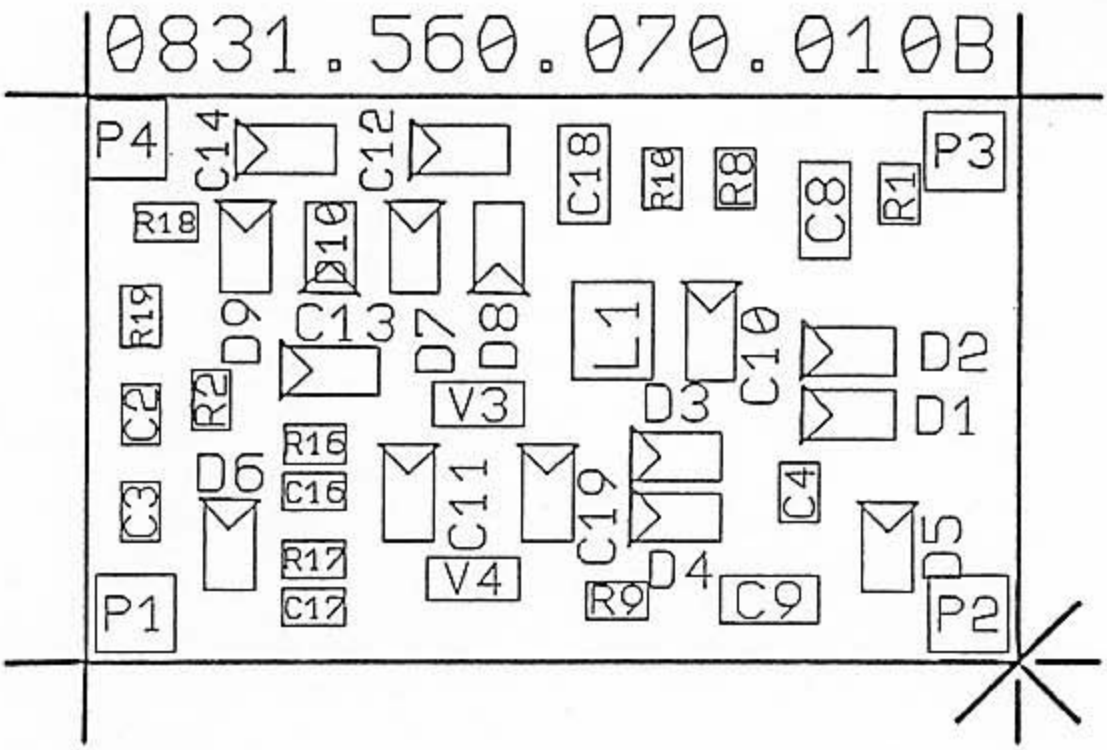
Ascom Teletron GmbH
Eugen-Müller-Straße 14
A-5020 SALZBURG

TCXO

SE 550	0833.560.490.002 A

-02

Änderungen vorbehalten



1992	Tag	Name
Bearb.	17.2	
Gepr.		

Ascom Teletron GmbH
Eugen-Müller-Straße 14
A-5020 SALZBURG

Änderungen vorbehalten

TCXO

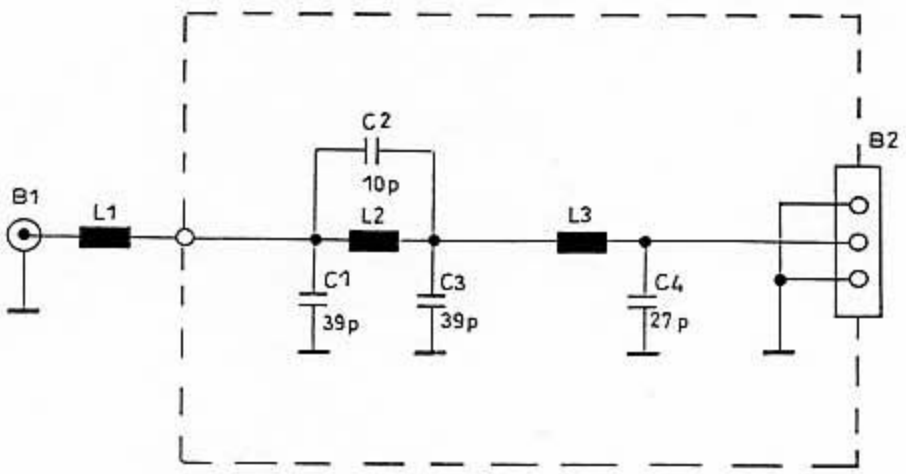
SE 550	0833.560.490.002 B

.02

ANTENNA LOW PASS (BLUE) S550 CHANGE NO. 03

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831300070003	BOARD DK 23 X 18 MM
A002	+0831300490002	PCB LAYOUT -01
A003	+0832300410002	CIRCUIT DIAGRAM -02
B002	0072038102	CONNECTOR 3-POLE FROM 72508102
C001	0061341390S	CER. CAP. 39PF 63V NP0 1206 !
C002	0061341100S	CER. CAP. 10PF 63V NP0 1206 !
C003	0061341390S	CER. CHIP 39PF 63V NP0 1206 !
C004	0061341270S	CER. CHIP 27PF 63V NP0 1206 !
L001	0038832005	COIL BV+0832000S00005
L002	0038832006	COIL BV+0832000S00006
L003	0038832007	COIL BV+0832000S00007

END



L1 = 0832000S00005
L2 = 0832000S00006
L3 = 0832000S00007

Lp.Nr. 0831.300.490.002

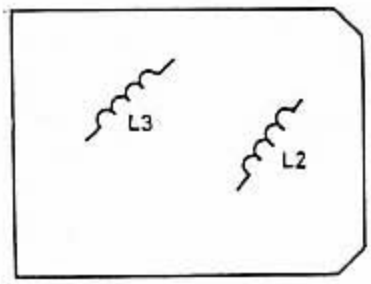
	Tag	Name
Bearb.	24.4.90	BH
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Antennentiefpaß
Antenna Low Pass

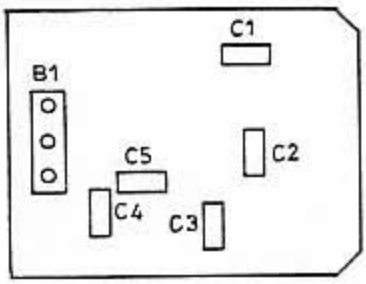
SE550-08	0832.300.410.002
	02

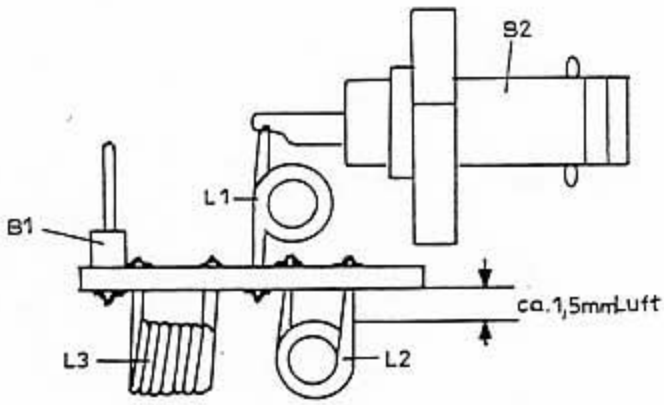


Pl. Nr. 0831.300.070.004

C5 für SE 550-08
nicht bestücken

Version SE 550-08:
C5 not equipped





Sp.Nr. 0832.300.410.002
Sp.Nr. 0831.300.410.002 /201

	Tag	Name
Bearb.	15/11.85	BGH
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

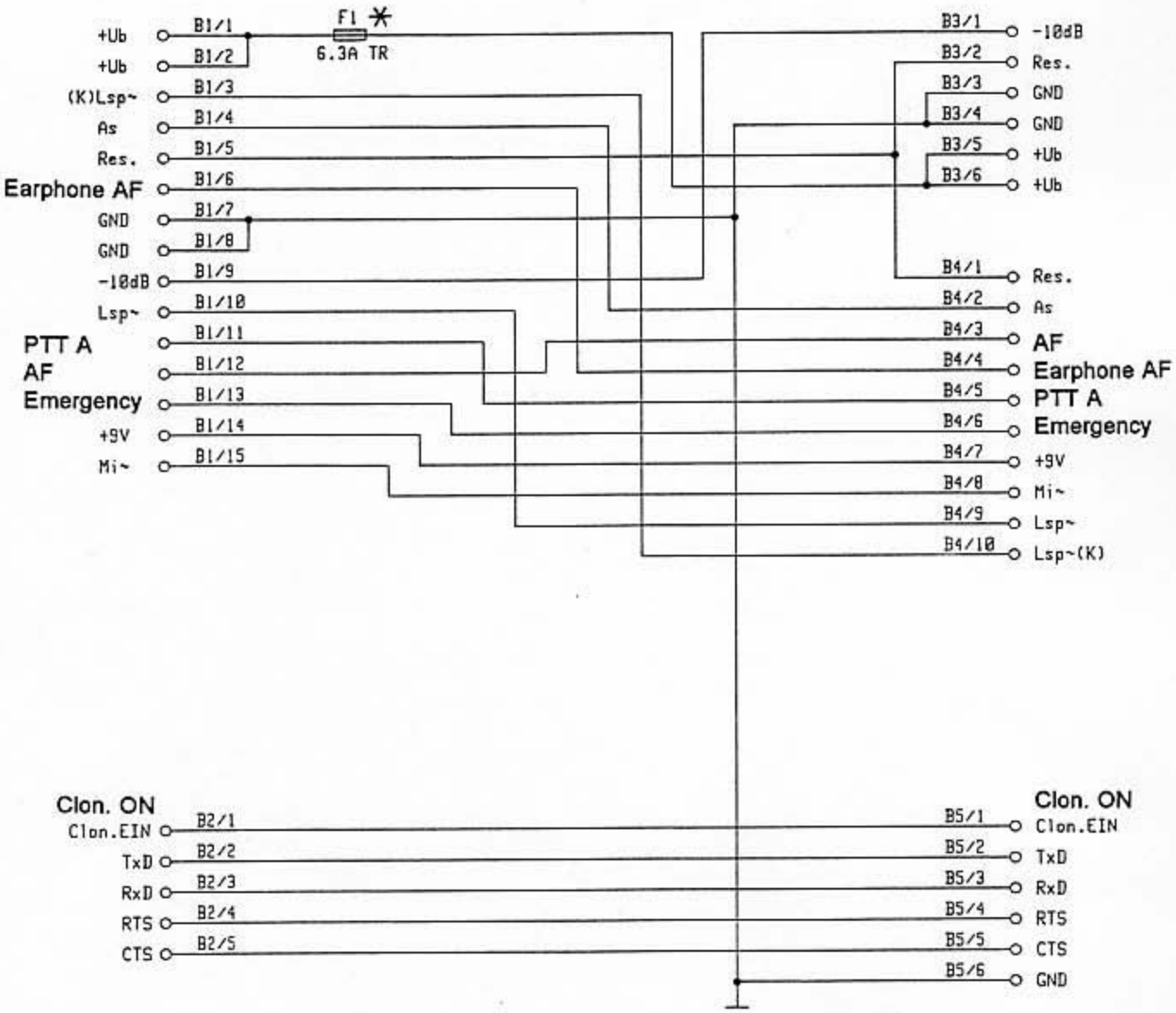
Antennentiefpaß
Antenna Low Pass

SE 550	0831.300.490.002
	02

INTERCONNECTION BOARD 25 W SE 550 HANGE NO.

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831110070011	BOARD DK 40 X 40 MM
A002	+0831110490002	PCB LAYOUT -03
A003	+0831110410001	CIRCUIT DIAGRAM -02
B001	0072159205	FILTER PLUG 15-POLE D-SUB
B002	0072054856	CONNECTOR 5-POLE 19,2 MM
B004	0072109021	CONNECTOR 10-POLE (2X5) ODU
B005	0072069021	CONNECTOR 6-POLE (2X3) 1RM ODU
B006	0072069401	CONNECTOR 6-POLE SHORT 2-ROW
F001	0017000801	FUSE 8,0 A MT 5X20MM
W001	8520954048	GUIDE PIN -02
W002	8310234059	CONNECTOR SUPPORT 15-POLE
W003	8310944249	SPACER 15.5MM
W004	8310944249	SPACER 15.5MM
X001	0027209015	MULTI-HOLE CORE 15-POLE F.D-SUB 6MM
X002	0017001015	FUSE HOLDER F.PLAT., SET UP!
X003	0017001015	FUSE HOLDER F.PLAT., SET UP!
X004	0027209005	SHIELDING BODY 5-HOLE FERRIT
Z001	0001839002	MS PRESS-IN NUT M 2,5 X 1,4
Z002	0001839002	MS PRESS-IN NUT M 2,5 X 1,4
Z003	0009022005	WACKER ELASTOSIL E 43

END



* F1 bei 25 W-Geräten: 8,0 A MT

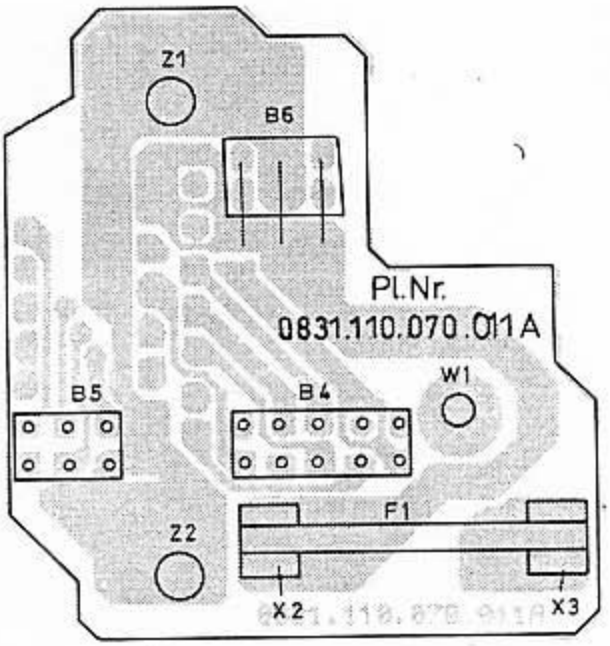
Transceivers 25 W: F1 = 8.0 A MT

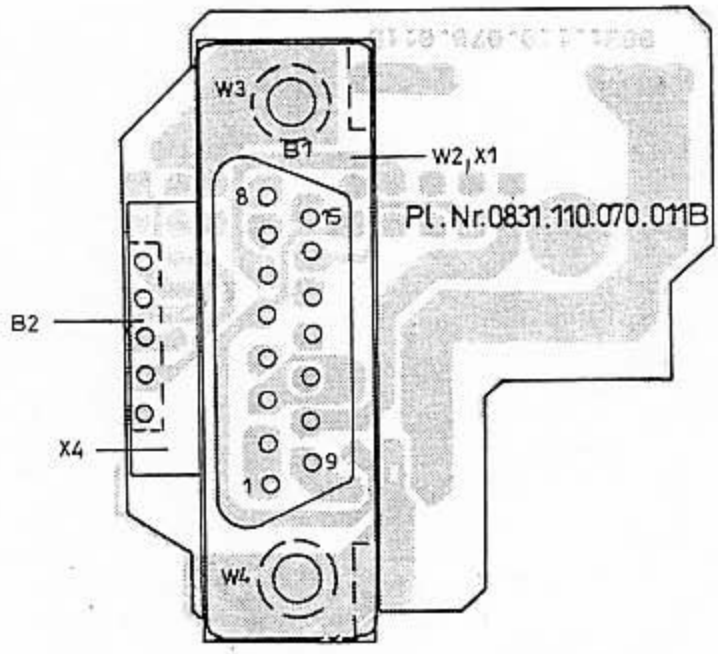
1991	Tag	Name
Bearb.	6.2.	Berghammer
Gepr.	6.2.	Sommerlat

ASCOM - Teletron GmbH
Eugen-Müller-Straße 14
A-5020 SALZBURG

Interconnection Board
Verbindungsplatine

SE550 | 0831.110.410.001





Sp.Nr. 0831.110.410.001

	Tag	Name
Bearb.	22.5.89	Appls
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Verbindungsplatine
Interconnection Board

SE 550	0831.110.490.002
	03

S T A N D A R D P A R T S L I S T

+0831000003511 BG 3-TR/UK SE 550

CHANGE NO. 7

ARTICLE NUMBER	QUANTITY	DESCRIPTION
8310368238	1	SWITCHING MAT SELECTACOM CPL.
+0831000000941	1	CODING PLUG FRONT 2 KBYTE SE 550 #
8310368239	1	WINDOW SELECTACOM CPL.
+0831910050203	1	CONVERTER BG 3 SE 550
+0831920050005	1	DISPLAY BOARD BG 3 (2K) SE 550
+0831930050001	1	KEY BOARD SE 550
8310334132	1	METAL FRONT FRAME -01
8310344207	1	INSULATION FOR FRONT FRAME
8310944079	1	PROFILE CORD FOR FRONT FRAME -02
8310944242	3	SPACER 12MM
8310934333	1	SHEET-METAL CONTACT -02
8310368179	1	FRONT PANEL WITH FRAME
8310344299	1	PROTECTIVE FOIL FOR WINDOW
0001206031	1	HEX SOCKET HEAD SCREW M3X6
0001291009	3	LENTIFORM-HEAD SRCEW M2,5X16
0004010003	1	O-RING 2,5-1,2 MM
0001521008	4	SHEET-METAL SCREW YELLOW 2,9X9,5

END

S T A N D A R D P A R T S L I S T

+0831000000941 CODING PLUG FRONT 2 KBYTE SE 550 #

CHANGE NO. 1

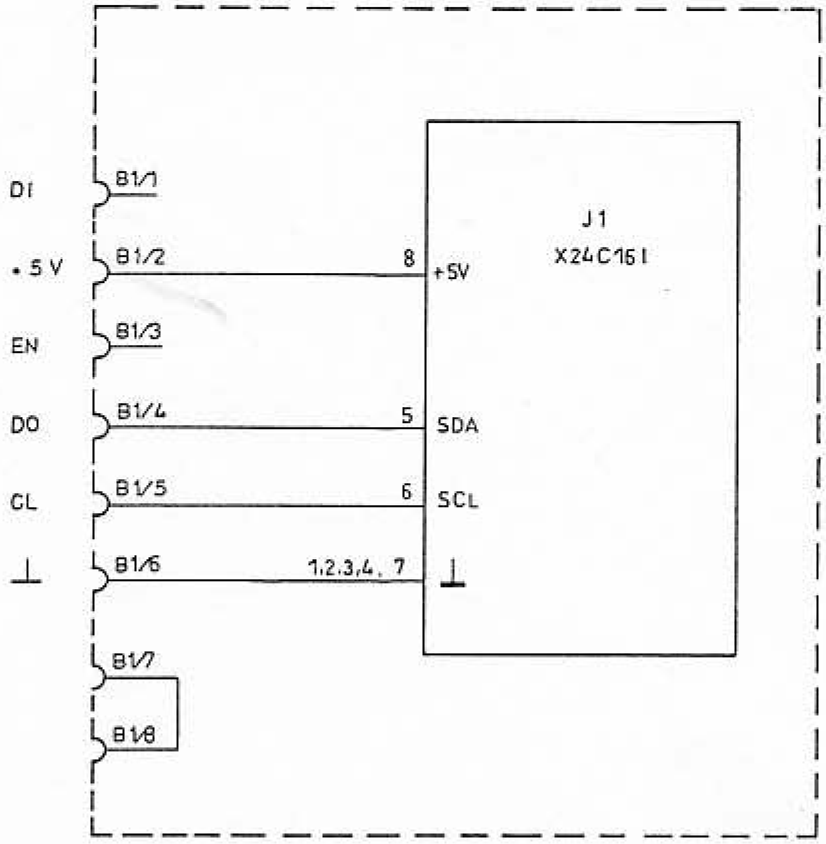
ARTICLE NUMBER	QUANTITY	DESCRIPTION
0001800130	1	CYLINDER-PIN DIN 7 1 M6X10
8310244029	1	CODING PLUG UPPER PART SW. -03
8310248431	1	CODING PLUG LOWER PART 2K
8310254031	1	CODING PLUG STRAP SW -02
+0831940050001	1	CODING BOARD (2 KBYTE) SE 550
0009019009	0.010	LOCTITE ADHESIVE

END

CODING-BOARD 2K BYTE SE550 CHANGE NO. 01

POSITION	ARTICLE NUMBER	DESCRIPTION		
A001	+0831940070001	BOARD	18.5X8.5	
A002	+0831940490001	PCB LAYOUT	-01	
A003	+0831940410001	CIRCUIT DIAGRAM	-01	
B001	0072089021	CONNECTOR	8-POLE (2X4)	ODU
J001	0043252416	EEPROM	X24C16P	XICOR

END

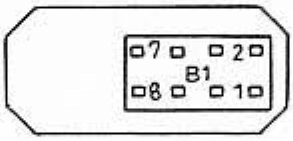


Lp. Nr. 0831.940.490.001

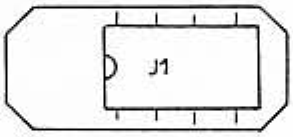
	Tag	Name	
Bearb.	20.3.90	BGH	KSV - Platine (2kByte) Coding Board (2 KB)
Gepr.			
PFITZNER TELETRON Ein Unternehmen der ascom Nachrichten-Systeme u. Elektronik Frankfurt/Main 60			SE 550 / 0831.940.410.001
			01

Änderungen vorbehalten

Pl.Nr. 0831.940.070.001B



Pl.Nr.0831.940.070.001A



Sp.Nr.0831.940.410.001

	Tag	Name	KSV-Platine (2 kByte) Coding Board (2 KB)	
Bearb.	20.9.90	BGH		
Gepr.				
PFITZNER TELETRON Ein Unternehmen der ascom Nachrichten-Systeme u. Elektronik Frankfurt/Main 60			SE 550	0831.940.490.001
				01

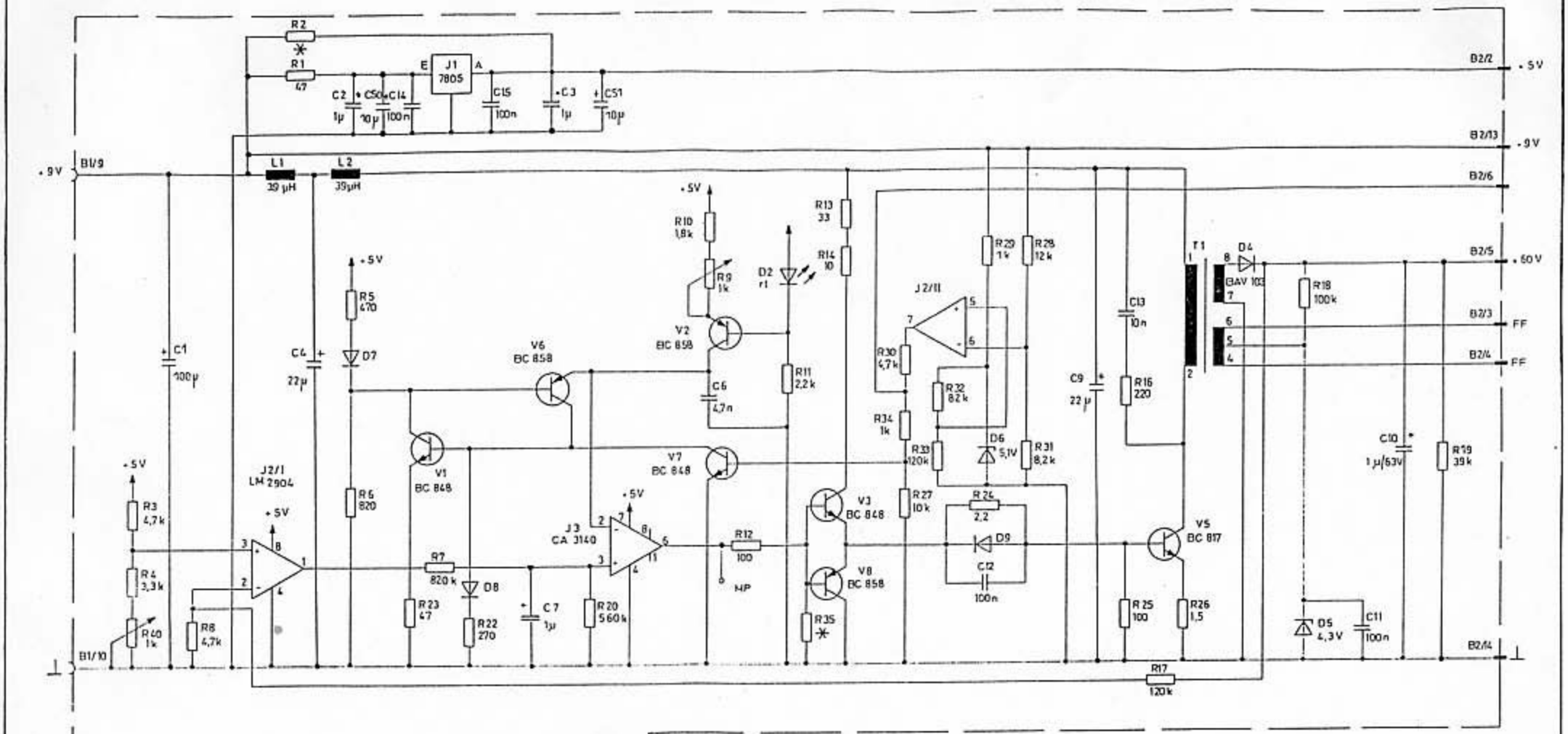
Änderungen vorbehalten

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831910070013	BOARD DK 137 X 36 MM
A002	+0831910390204	PCB LAYOUT -03
A003	+0831910310203	CIRCUIT DIAGRAM -04
B001	0072129030	CONNECTOR 12-POLE (2X6) RM7,62
B002	0072188202	CONNECTOR 18-POLE FROM 72508202
C001	0067016101	ELECTR. CAP. 100UF 16V 6X7 1RM
C002	0068020105S	TAN. CAP. 1UF 20V 10% GR.B!
C003	0068020105S	TAN. CAP. 1UF 20V 10% GR.B!
C004	0068020226S	TAN. CAP. 22UF 20V 10% GR.H!
C006	0061341472S	CER. CAP. 4,7NF 50V NP 0 1206 !
C007	0068020105S	TAN. CAP. 1UF 20V 10% GR.B!
C009	0068020226S	TAN. CAP. 22UF 20V 10% GR.H!
C010	0067063010	ELECTR. CAP. 1UF 63V 4X7RM1,5
C011	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C012	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C013	0061346103S	CER. CAP. 10NF 63V X7R 1206 !
C014	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C015	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C050	0068116106S	TAN. CAP. 10UF 16V 10% !
C051	0068116106S	TAN. CAP. 10UF 16V 10% !
D002	0041950002S	SMD LED-RED LN1251C J-TYP
D004	0040100103S	SMD DIODE BAV 103 EPITAX. VAL!
D005	0042202043S	SMD Z-DIODE 4,3V BZV55/C4V3 !
D006	0042202051S	SMD Z-DIODE 5,1V BZV55/C5V1 !
D007	0040624148S	SMD DIODE LL4148 !
D008	0040624148S	SMD DIODE LL4148 !
D009	0040624148S	SMD DIODE LL4148 !
J001	0048957805S	SMD IC LM7805 +5V/100MA
J002	0048902904S	SMD IC LM2904D 2-F.OP-AMP.
J003	0048903140S	SMD IC CA 3140M OP-AMP.RCA
L001	0031500390	RF-CHOKE 39UH AXIAL 10/392
L002	0031500390	RF-CHOKE 39UH AXIAL 10/392
R001	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R002	0050900000S	CHIP RES. TEST DEPARTM. VALUE !
R003	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R004	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R005	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R006	0050900821S	CHIP RES. 820 R 5% 0,125W 1206!
R007	0050900824S	CHIP RES. 820 K 5% 0,125W 1206!
R008	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R009	0053150102S	SMD TRIMMER 1 K LIN. MUR
R010	0050900182S	CHIP RES. 1,8 K 5% 0,125W 1206!
R011	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R012	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R013	0050900330S	CHIP RES. 33 R 5% 0,125W 1206 !
R014	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R016	0050900221S	CHIP RES. 220 R 5% 0,125W 1206!

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
R017	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R018	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R019	0050900393S	CHIP RES. 39 K 5% 0,125W 1206 !
R020	0050900564S	CHIP RES. 560 K 5% 0,125W 1206!
R022	0050900271S	CHIP RES. 270 R 5% 0,125W 1206!
R023	0050900470S	CHIP RES. 47 R 5% 0,125W 1206 !
R024	0050900022S	CHIP RES. 2,2 R 5% 0,125W 1206!
R025	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R026	0050900015S	CHIP RES. 1,5 R 5% 0,125W 1206!
R027	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R028	0050900123S	CHIP RES. 12 K 5% 0,125W 1206!
R029	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R030	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R031	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!
R032	0050900823S	CHIP RES. 82 K 5% 0,125W 1206 !
R033	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R034	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R035	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R040	0053150102S	SMD TRIMMER 1 K LIN. MUR
T001	+0831910S08003	TRANSFORMER BV 0831910S08003-01
V001	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V002	0046930858S	SMD PNP-TR. BC 858C 3L VAL !
V003	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V005	0046930817S	SMD NPN-TR. BC 817-40 6C VAL !
V006	0046930858S	SMD PNP-TR. BC 858C 3L VAL !
V007	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V008	0046930858S	SMD PNP-TR. BC 858C 3L VAL !
Z001	0007013340	ADHESIVE LABEL EEB 12 0615 PW

END



* Prüffeldwert

Alle nicht bezeichneten Dioden LL 4148

T1 – BV 0831.910.508.003

* Test department value

All not designated diodes LL 4148

T1 = BV 0831.910.508.003

Lp.Nr. 0831.910.390.204

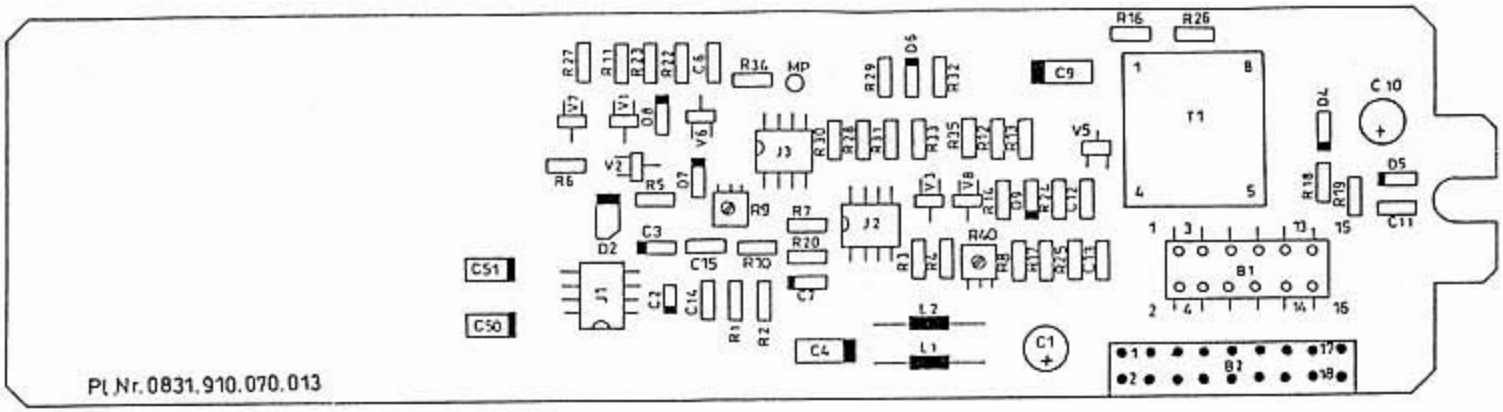
	Tag	Name
Bearb.	13.C.90	BGH
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 40

Wandler BG 3
Converter BG 3

SE 550 | 0831.910.310.203

04



Sp.Nr.0831.910.310.203

	Tag	Name
Bearb	13.5.70	864
Gear.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik

Wandler BG 3
Converter BG 3

SE 550 | 0831.910.390.204

03

DISPLAY BOARD BG 3 (2KB) SE550 CHANGE NO. 07

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831920070014	BOARD DK 160 X 100 MM
A002	+0831920390006	PCB LAYOUT -02
A003	+0831920110005	CIRCUIT DIAGRAM -05
B001	0072088105	CONNECTOR 8-POLE FROM 72508105
B002	0072068105	CONNECTOR 6-POLE FROM 72508105
B003	0072189021	CONNECTOR 18-POLE (2X9) RM2,54
B004	0072088202	CONNECTOR 8-POLE FROM 72508202
B005	0072088202	CONNECTOR 8-POLE FROM 72508202
C001	0061341150S	CER. CAP. 15PF 63V NP0 1206 !
C002	0061341330S	CER. CAP. 33PF 63V NP0 1206 !
C003	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C004	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C005	0068116105S	TAN. CAP. 1UF 16V 10% !
C006	0068116106S	TAN. CAP. 10UF 16V 10% !
C007	0061341221S	CER. CAP. 220PF 63V NP0 1206 !
C009	0068135335S	TAN. CAP. 3,3UF 35V 10% !
C101	0068116106S	TAN. CAP. 10UF 16V 10% !
C102	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C103	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
C104	0061345182S	CER. CAP. 1,8NF 63V X7R 0805 !
C105	0068116335S	TAN. CAP. 3,3UF 16V 10% !
C106	0068015106S	TAN. CAP. 10UF 15V 10% GR.F!
C107	0061340470S	CER. CAP. 47PF 63V NP0 0805 !
C108	0061340470S	CER. CAP. 47PF 63V NP0 0805 !
D001	0042202043S	SMD Z-DIODE 4,3V BZV55/C4V3 !
D003	0040624148S	SMD DIODE LL4148 !
D004	0040624148S	SMD DIODE LL4148 !
D005	0040624148S	SMD DIODE LL4148 !
D006	0040624148S	SMD DIODE LL4148 !
D101	0040624148S	SMD DIODE LL4148 !
D102	0040624148S	SMD DIODE LL4148 !
H001	0041956002	VACUUM-FLOURESC.-DISPLAY BGM3
J001	0043008052S	MICROCOMP. 80C51BH-3WP BGSV105
J002	0047440460S	SMD IC HEF 4046BT VAL
J003	0047440210S	SMD IC HEF 4021BT VAL
J004	0047440110S	SMD IC HEF 4011BT VAL
J005	0047440130S	SMD IC HEF 4013BT VAL
J006	0047374393S	SMD HIGH-SPEED-CMOS PC74HC393T
J007	0043991163S	SMD IC MSC 1163GS OKI
J008	0043991162S	SMD IC MSC 1162GS OKI
J101	0048900083S	SMD IC TL082ID -25-+85GR.C
L001	0031506150S	CHIP CHOKE 15UH 10% !
Q001	0088511059S	SMD QUARTZ 11,0592MHZ 4MM TEL
R001	0050900105S	CHIP RES. 1 M 5% 0,125W 1206!
R002	0050900101S	CHIP RES. 100R 5 % 0,125W 1206!
R003	0050900205S	CHIP RES. 2 M 5% 0,125 W 1206!
R004	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R010	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!

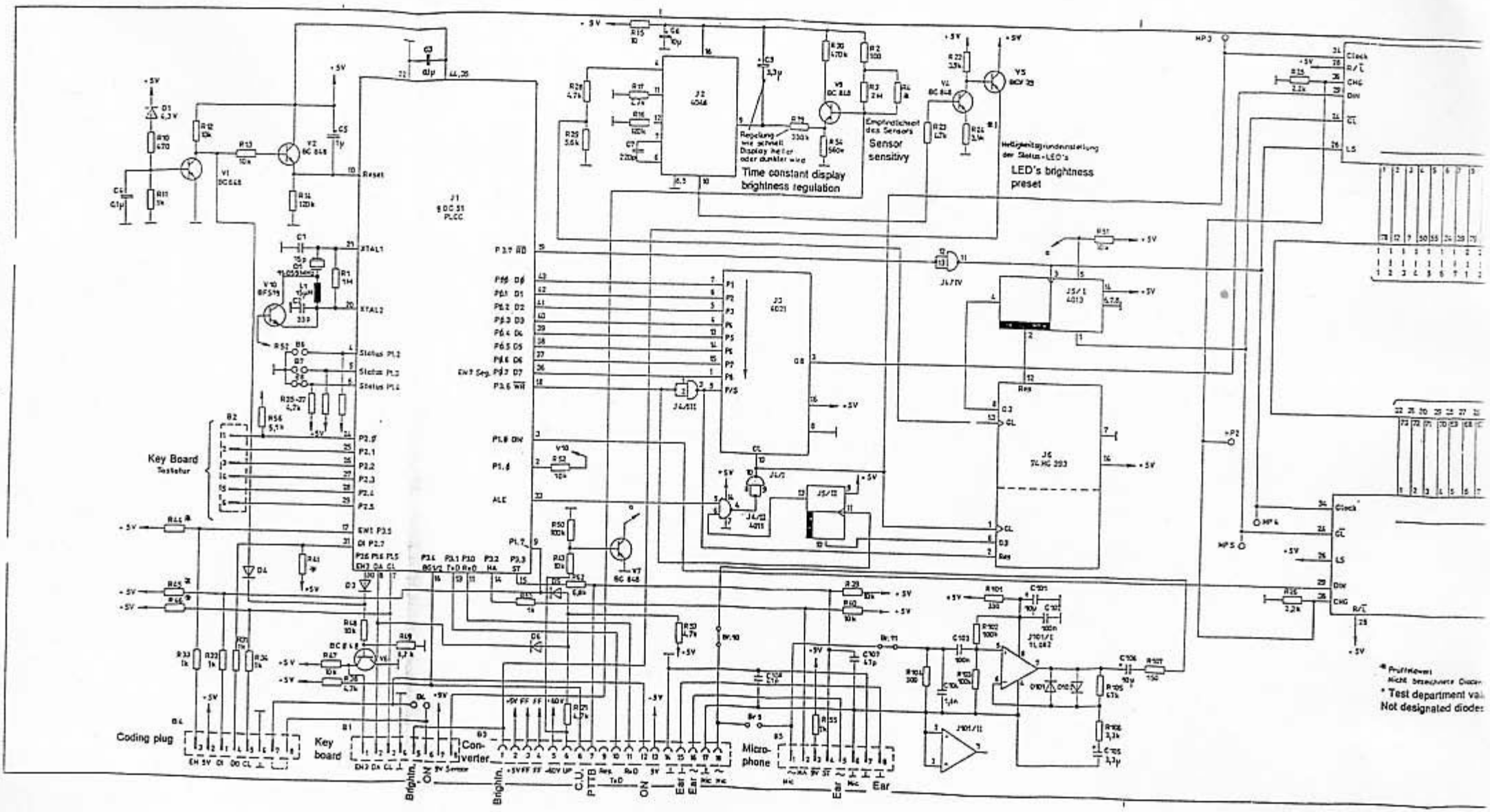
CONTINUATION

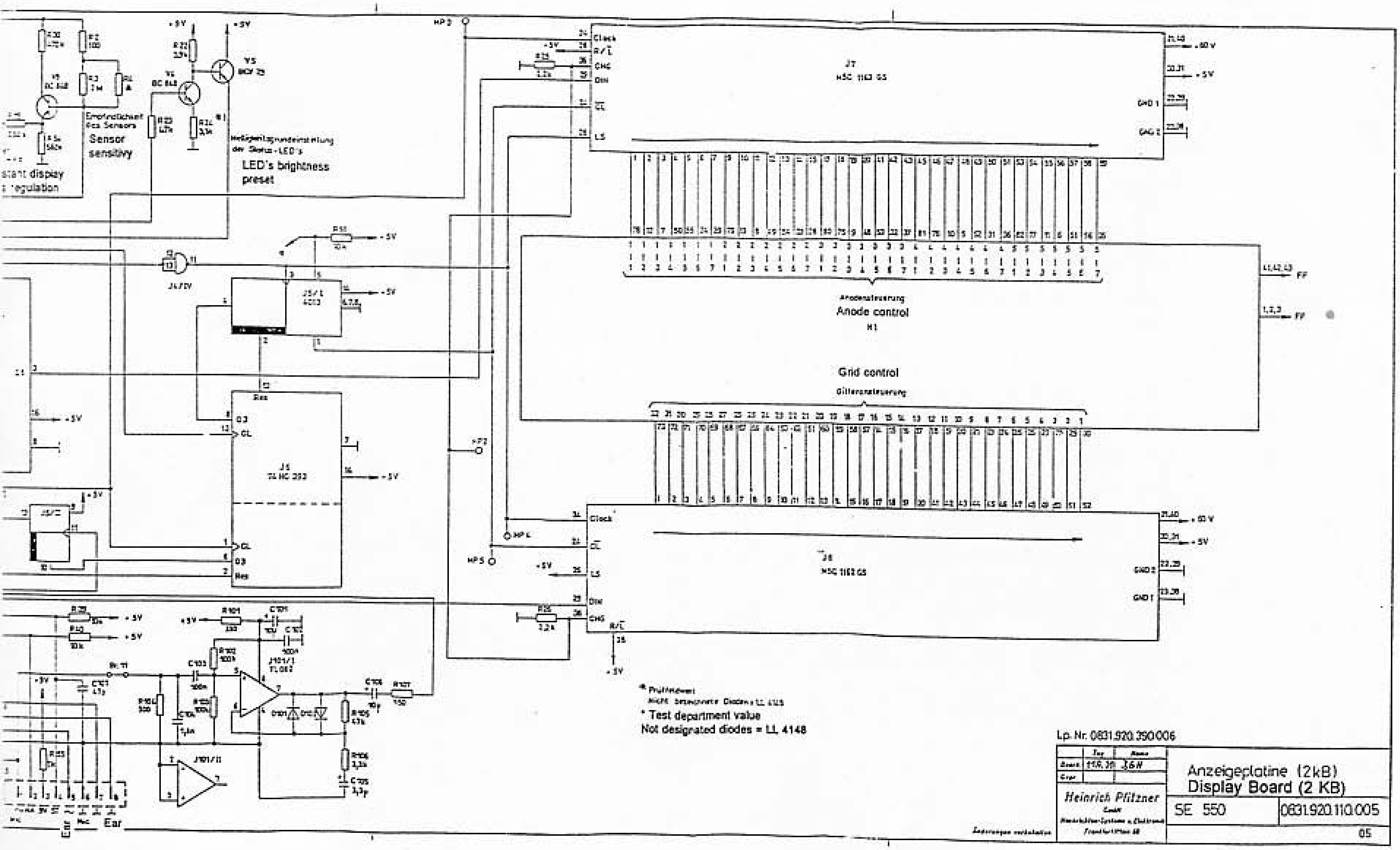
POSITION	ARTICLE NUMBER	DESCRIPTION
R011	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R012	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R013	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R014	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R015	0050900100S	CHIP RES. 10 R 5% 0,125W 1206 !
R016	0050900124S	CHIP RES. 120 K 5% 0,125W 1206!
R017	0050900272S	CHIP RES. 2,7 K 5% 0,125W 1206!
R019	0050900334S	CHIP RES. 330 K 5% 0,125W 1206!
R021	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R022	0050900392S	CHIP RES. 3,9 K 5% 0,125W 1206!
R023	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R024	0050900332S	CHIP RES. 3,3 K 5% 0,125W 1206!
R025	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R026	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R028	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R029	0050900562S	CHIP RES. 5,6 K 5% 0,125W 1206!
R030	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !
R031	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R032	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R033	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R034	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R035	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R036	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R037	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R038	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R039	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R040	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R041	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R043	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R044	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R045	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R046	0050900000S	CHIP RES. TEST DEPARTM.VALUE !
R047	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R048	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R049	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!
R050	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R051	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R052	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!
R053	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R054	*0050900564S*	*CHIP RES. 560 K 5% 0,125W 1206!*
R055	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R056	0050900512S	CHIP RES. 5,1 K 5% 0,125W 1206!
R062	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R063	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !
R101	*0050900331S*	*CHIP RES. 330 R 5% 0,125W 1206!*
R102	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R103	0050900104S	CHIP RES. 100K 5% 0,125W 1206 !
R104	0050950301S	CHIP RES. 300 R 5% 0805 !
R105	0050965470S	CHIP RES. 47,0 K 1% 1206 !
R106	0050964330S	CHIP RES. 3,3 K 1% 1206 !
R107	0050963150S	CHIP RES. 150,0 R 1% 1206 !

CONTINUATION

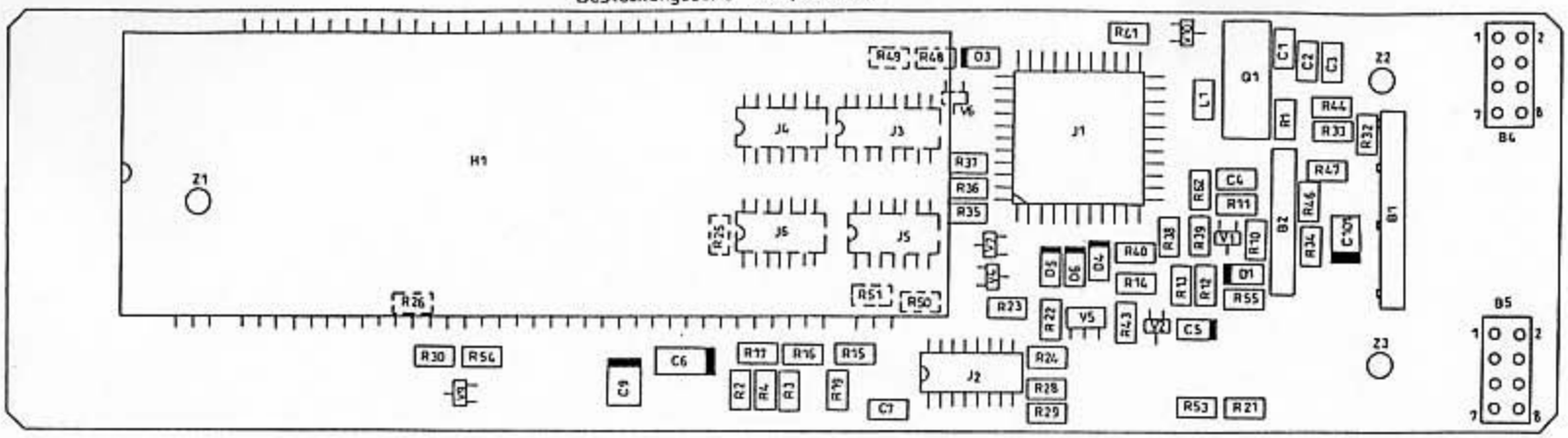
POSITION	ARTICLE NUMBER	DESCRIPTION
V001	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V002	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V004	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V005	0046925029S	SMD NPN-TR. BCV 29 AF AMP. !
V006	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V007	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V009	0046930848S	SMD NPN-TR. BC 848C 1L VAL !
V010	0046900019S	SMD NPN-TR. BFS19 RF AMP. !
Z001	0001839002	MS PRESS-IN NUT M 2,5 X 1,4
Z002	0001839002	MS PRESS-IN NUT M 2,5 X 1,4
Z003	0001839002	MS PRESS-IN NUT M 2,5 X 1,4
Z004	0007013340	ADHESIVE LABEL EEB 12 0615 PW

END


Time constant display brightness regulation
Sensor sensitivy
LED's brightness preset
Key Board
Tastatur
Coding plug
Key board
Con-verter
Micro-phone
Ear
Test department val
Not designated diode

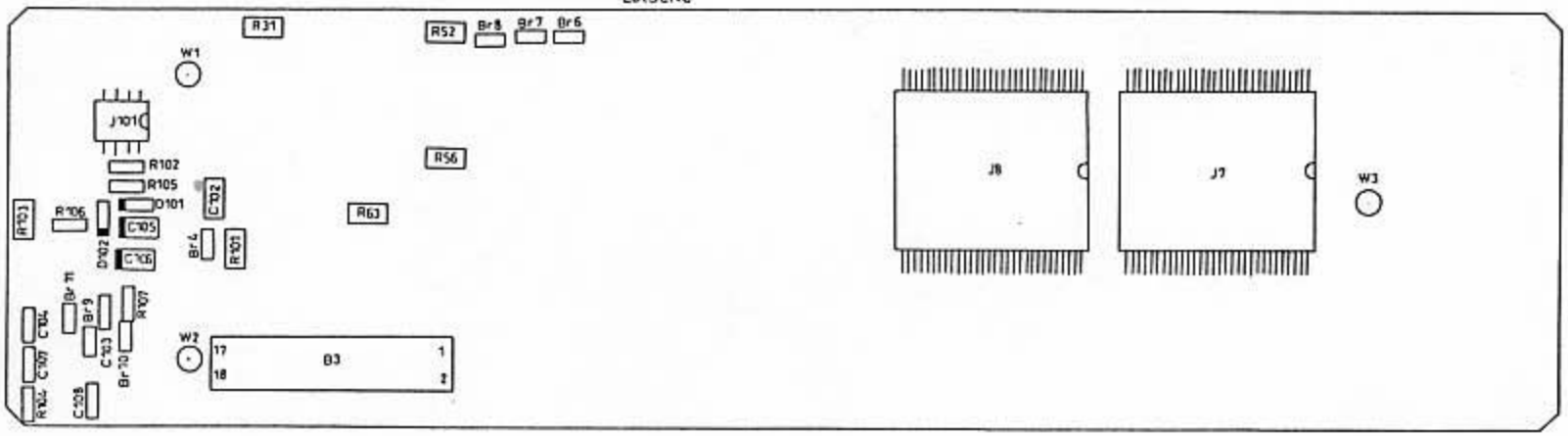

Sensor sensitivy
LED's brightness preset
Anode control
Grid control
J7 HSC 1163 GS
J8 HSC 1163 GS
J5 74 HC 393
Clock
GND 1
GND 2
HP 2
HP 4
HP 5
* Test department value
Not designated diodes = LL 4148
Lp. Nr. 0831.920.390.006
Heinrich Pfitzner
Anzeigeplatine (2kB)
Display Board (2 KB)
SE 550
0831.920.110.005
05

Bestückungsseite Component side



Pl.Nr. 0831.920.070.014

Soldering side
Lötseite



Sp.Nr. 0831.920.110.005

	Tag	Name
Bearb.	11.4.91	BCH
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Anzeigeplatine (2kB)
Display Board (2 KB)

SE 550 | 0831.920.390.006

02

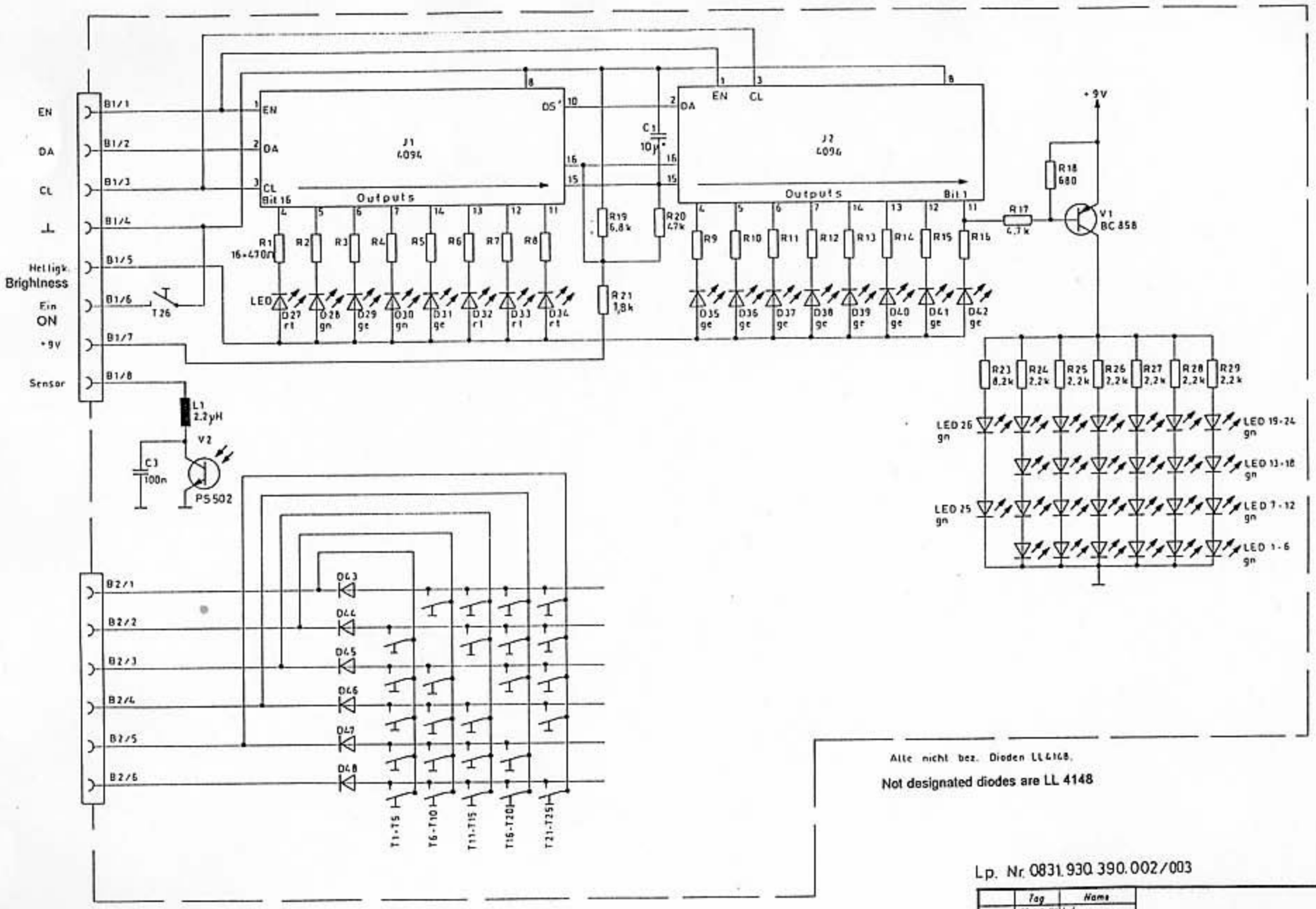
KEY BOARD BG 3 SE 550 CHANGE NO. 11

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831930070012	BOARD DK 145 X 41MM
A002	+0831930390003	PCB LAYOUT -01
A003	+0831930310001	CIRCUIT DIAGRAM -03
B001	0072088100	CONNECTOR 8-POLE 76341-308
B002	0072068100	CONNECTOR 6-POLE 76 341-306
C001	0068116106S	TAN. CAP. 10UF 16V 10% !
C003	0061346104S	CER. CAP. 100NF 63V X7R 1206 !
D001	0041950005S	SMD LED GREEN LN1351C J-TYP
D002	0041950005S	SMD LED GREEN LN1351C J-TYP
D003	0041950005S	SMD LED GREEN LN1351C J-TYP
D004	0041950005S	SMD LED GREEN LN1351C J-TYP
D005	0041950005S	SMD LED GREEN LN1351C J-TYP
D006	0041950005S	SMD LED GREEN LN1351C J-TYP
D007	0041950005S	SMD LED GREEN LN1351C J-TYP
D008	0041950005S	SMD LED GREEN LN1351C J-TYP
D009	0041950005S	SMD LED GREEN LN1351C J-TYP
D010	0041950005S	SMD LED GREEN LN1351C J-TYP
D011	0041950005S	SMD LED GREEN LN1351C J-TYP
D012	0041950005S	SMD LED GREEN LN1351C J-TYP
D013	0041950005S	SMD LED GREEN LN1351C J-TYP
D014	0041950005S	SMD LED GREEN LN1351C J-TYP
D015	0041950005S	SMD LED GREEN LN1351C J-TYP
D016	0041950005S	SMD LED GREEN LN1351C J-TYP
D017	0041950005S	SMD LED GREEN LN1351C J-TYP
D018	0041950005S	SMD LED GREEN LN1351C J-TYP
D019	0041950005S	SMD LED GREEN LN1351C J-TYP
D020	0041950005S	SMD LED GREEN LN1351C J-TYP
D021	0041950005S	SMD LED GREEN LN1351C J-TYP
D022	0041950005S	SMD LED GREEN LN1351C J-TYP
D023	0041950005S	SMD LED GREEN LN1351C J-TYP
D024	0041950005S	SMD LED GREEN LN1351C J-TYP
D025	0041950005S	SMD LED GREEN LN1351C J-TYP
D026	0041950005S	SMD LED GREEN LN1351C J-TYP
D027	0041950002S	SMD LED RED LN1251C J-TYP
D028	0041950005S	SMD LED GREEN LN1351C J-TYP
D029	0041950004S	SMD LED YELLOW LN1451C J-TYP
D030	0041950005S	SMD LED GREEN LN1351C J-TYP
D031	0041950004S	SMD LED YELLOW LN1451C J-TYP
D032	0041950002S	SMD LED RED LN1251C J-TYP
D033	0041950002S	SMD LED RED LN1251C J-TYP
D034	0041950002S	SMD LED RED LN1251C J-TYP
D035	0041950004S	SMD LED YELLOW LN1451C J-TYP
D036	0041950004S	SMD LED YELLOW LN1451C J-TYP
D037	0041950004S	SMD LED YELLOW LN1451C J-TYP
D038	0041950004S	SMD LED YELLOW LN1451C J-TYP
D039	0041950004S	SMD LED YELLOW LN1451C J-TYP
D040	0041950004S	SMD LED YELLOW LN1451C J-TYP

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
D041	0041950004S	SMD LED YELLOW LN1451C J-TYP
D042	0041950004S	SMD LED YELLOW LN1451C J-TYP
D043	0040624148S	SMD DIODE LL4148 !
D044	0040624148S	SMD DIODE LL4148 !
D045	0040624148S	SMD DIODE LL4148 !
D046	0040624148S	SMD DIODE LL4148 !
D047	0040624148S	SMD DIODE LL4148 !
D048	0040624148S	SMD DIODE LL4148 !
J001	0047440940S	SMD IC HEF 4094BT VAL
J002	0047440940S	SMD IC HEF 4094BT VAL
L001	0031500022S	CHIP CHOKE 2,2UH !
R001	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R002	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R003	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R004	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R005	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R006	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R007	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R008	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R009	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R010	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R011	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R012	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R013	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R014	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R015	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R016	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!
R017	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!
R018	0050900681S	CHIP RES. 680 R 5% 0,125W 1206!
R019	0050900682S	CHIP RES. 6,8 K 5% 0,125W 1206!
R020	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !
R021	0050900182S	CHIP RES. 1,8 K 5% 0,125W 1206!
R023	0050900822S	CHIP RES. 8,2 K 5% 0,125W 1206!
R024	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R025	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R026	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R027	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R028	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
R029	0050900222S	CHIP RES. 2,2 K 5% 0,125W 1206!
V001	0046930858S	SMD PNP-TR. BC 858C 3L VAL !
V002	0049501041	PHOTO-TRANS. PS 502 STAN
Z001	0007013340	ADHESIVE LABEL EEB 12 0615 PW

END



Alle nicht bez. Dioden LL4148.

Not designated diodes are LL 4148

Lp. Nr. 0831.930.390.002/003

	Tag	Name
Bearb.	1303.93	Wagner
Gepr.	9.05.93	

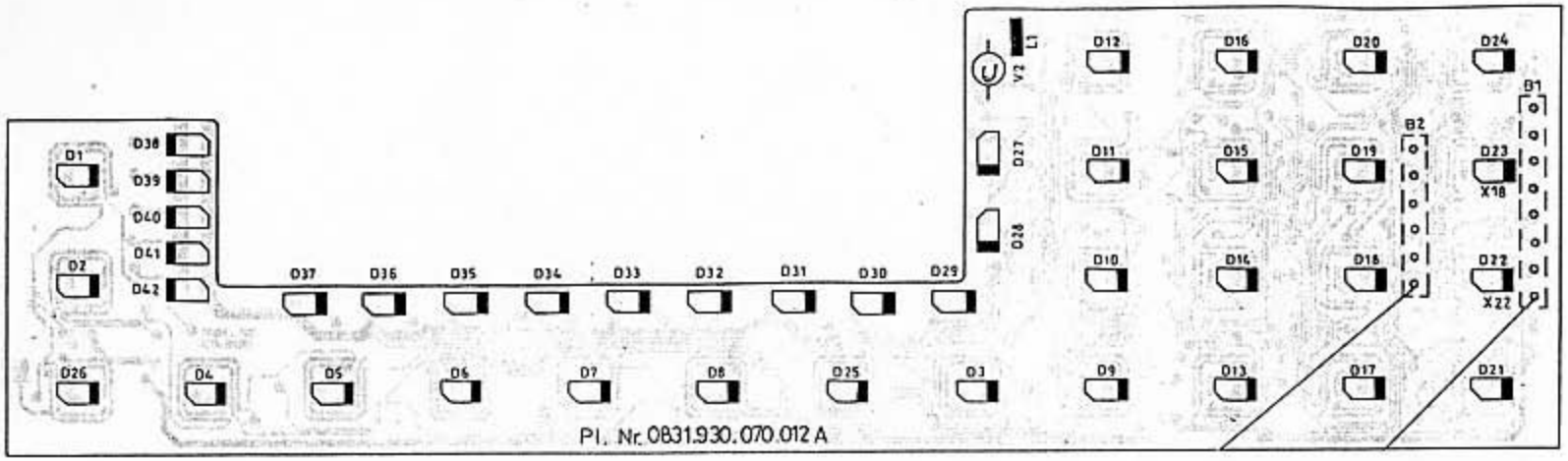
Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

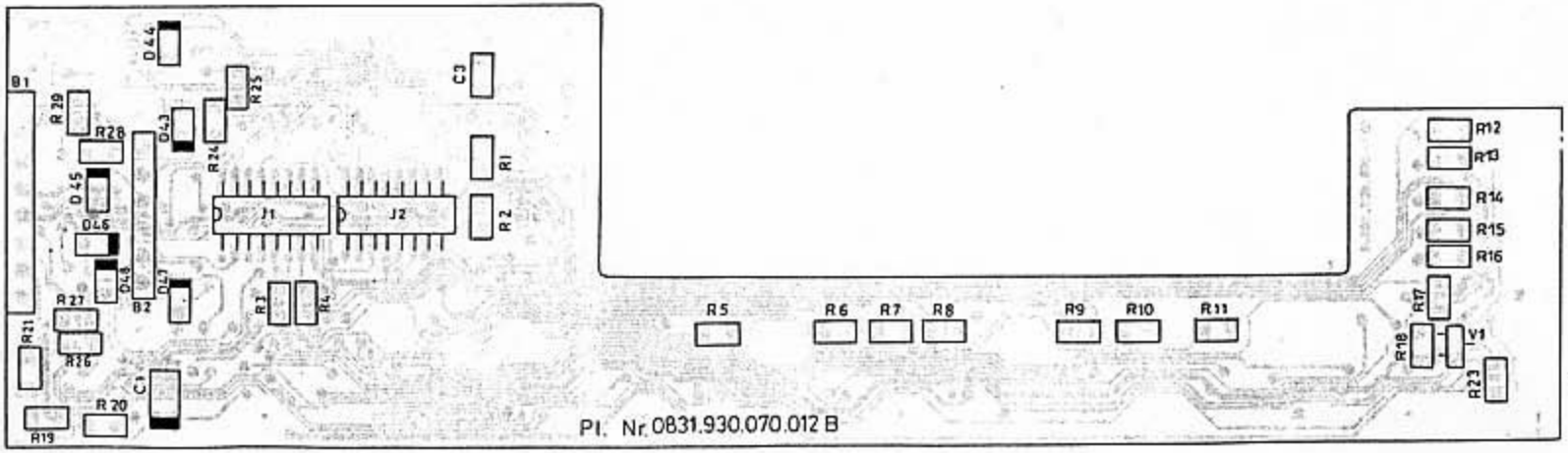
Tastenplatine
Key Board

SE 550 | 0831.930.310.001

03



Pl. Nr. 0831.930.070.012 A



Pl. Nr. 0831.930.070.012 B

Sp. Nr 0831.930.310.001

	Tag	Name
Bearb.	25.8.83	GEH
Gepr.		

Heinrich Pfitzner GmbH
Nachrichten-Systeme u. Elektronik
Frankfurt-Main 60

Änderungen vorbehalten

Tastenplatine
Key Board

SE 550 | 0831.930.390.003

01

S T A N D A R D P A R T S L I S T

+0831000060304 MOUNTING SET COMPLETE SE 550

CHANGE NO. 1

ARTICLE NUMBER	QUANTITY	DESCRIPTION
8520148172	1	HOLDER T852
+0831170060001	1	INTERCONNECTOR COMPLETE SE 550
+0831080060002	1	MOUNTING SET BAG, UNIVERSAL SE540/550

END

S T A N D A R D P A R T S L I S T

+0831080060002 MOUNTING SET BAG, UNIVERSAL SE540/550

CHANGE NO. 1

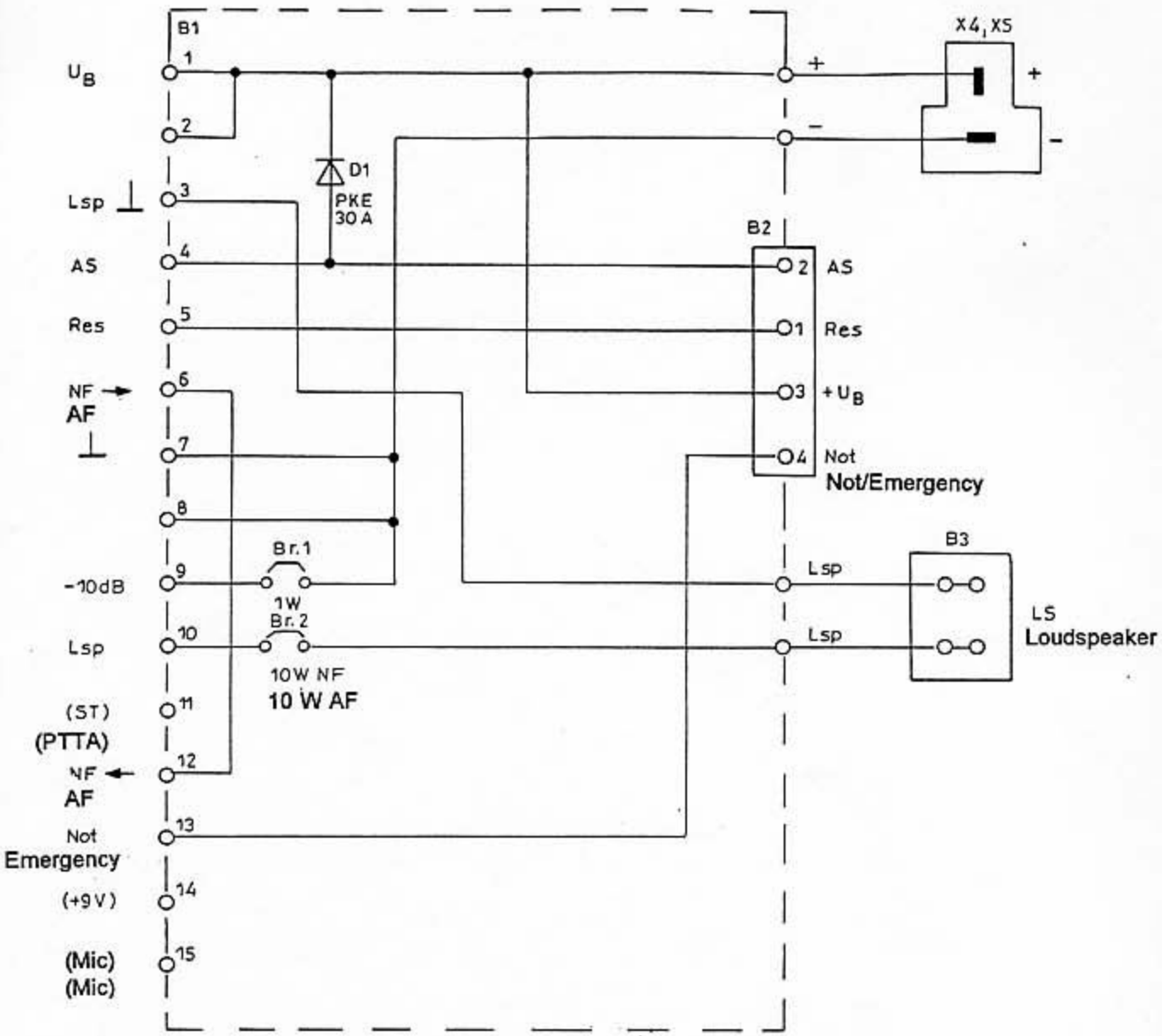
ARTICLE NUMBER	QUANTITY	DESCRIPTION	
0001011072	2	CYLINDER-HEAD SCREW YELLOW M3X5	
0001031004	2	WASHER YELLOW B3,2 MM	
0001031006/A	8	WASHER YELLOW 5,3 TYPE A	
0001041006/A	4	SPRING WASHER YELLOW 5,0 TYPE A	
0001241013	4	HEX NUT YELLOW M 5,0	
0001231079/A	4	HEX-HEAD SCREW YELLOW M5X10	
0001521029	4	SHEET METAL SCREW 4,2X16	
0007013347	1	ADHESIVE LABEL 15 X 6 MM	
0007032404	1	POLY-SNAP-BAG 80 X 120 MM	
0011209047	1	SET SCREW WRENCH SW 2,5 MM	
0017001007	1	FUSE HOLDER 1-POLE M.SI.8A	
0072019065	1	BNC CONNECTOR CRIMP RG58/U	
0072018810	1	SLEEVE CASING 2-POLE AMP	
0072019005	2	PLUG-IN SLEEVE 42238-2 AMP	
0072019004	1	CASING FOR PLUG-IN SLEEVE AMP	
0072019026	1	RING LUG BL M8 31907 AMP	
8310244167	1	COVER SE 550	-01

END

INTERCONNECTOR SE 550 CHANGE NO. 08

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0831170070005	BOARD DK 40 X 22 MM
A002	+0831170490002	PCB LAYOUT
A003	+0831170410002	CIRCUIT DIAGRAM -01
B001	0072159046	CONNECTOR 15-POLE DA15S364 SOU
B002	0017002304	TERMINAL STRIP 4-POLE ANGLE 2RM
B003	0017001011	TERMINAL 2-POLE WIRE PROTECT.
D001	0041650001	SI.-DIODE P6KE 30A / BZW06-26
W001	8310968140	INTERCONNECTOR CPL.
X001	0001041005	SPRING WASHER YELLOW B 4,0 MM
X002	0001031005	WASHER XELLOW B 4,3 MM
X003	0004010003	O-RING 2,5-1,2 MM
X004	0072019006	CASING FOR FLAT CONNECTOR AMP
X005	0072019007	FLAT CONNECTOR 42241-2 AMP
X006	0090202375	CABLE FLAT 2X0,75 NYFAZ BLACK
X007	0094150109	LITZ WIRE 1,50 BLACK
X008	0094150108	LITZ WIRE 1,50 RED
X009	0016102523	CABLE FASTENER TY 23M 92MM
X010	0016102523	CABLE FASTENER TY 23M 92MM
X011	0072019007	FLAT CONNECTOR 42241-2 AMP
Z001	0001361010	CROSS-SLOT SCREW YELLOW M2,5X6
Z002	0001361010	CROSS-SLOT SCREW YELLOW M2,5X6
Z003	0001011102	CYLINDER-HEAD SCREW YELLOW M 4X16
Z004	0007013347	ADHESIVE LABEL 15 X 6 MM

END



Lp.Nr. 0831.170.490.002

	Tag	Name
Bearb.	17.10.90	BGH
Gepr.		

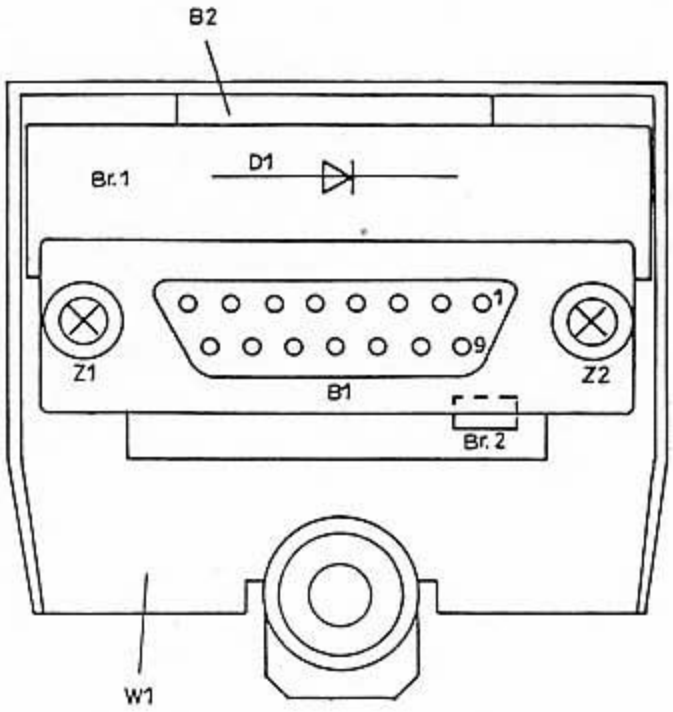
PFITZNER TELETRON
Ein Unternehmen der ascom
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Anschaltung
Interconnector

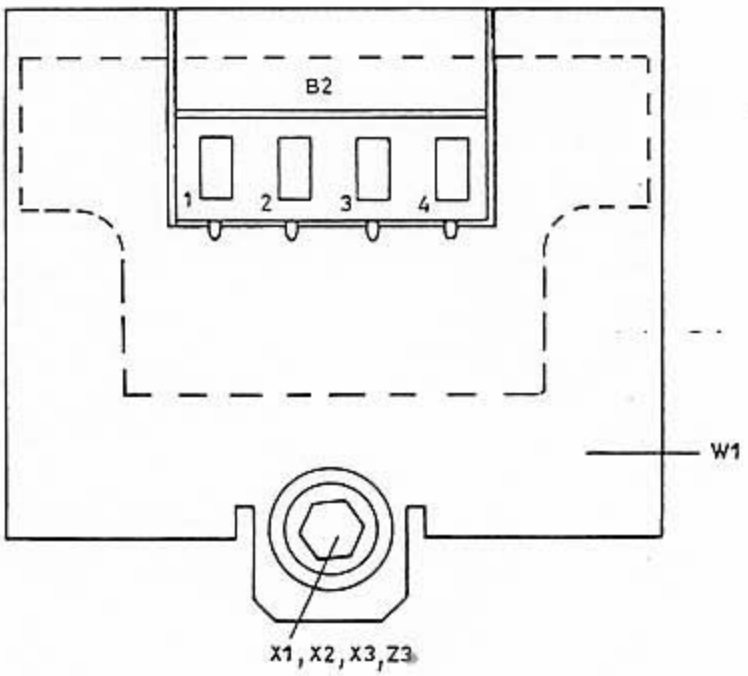
SE 550	0831.170.410.002
	01

Pl.Nr.0831.170.070.005 A



Brücke 1 offen — Jumper Br.1 open
Brücke 2 geschlossen — Jumper Br.2 closed

Pl.Nr.0831.170.070.005B



Sp.Nr.0835.170.410.002
Sp.Nr.0831.170.410.002

	Tag	Name
Bearb.	17.10.90	BGH
Gepr.		

PFITZNER TELETRON
Ein Unternehmen der 2500m
Nachrichten-Systeme u. Elektronik
Frankfurt/Main 60

Änderungen vorbehalten

Anschaltung Interconnector

SE 550 | 0831.170.490.002

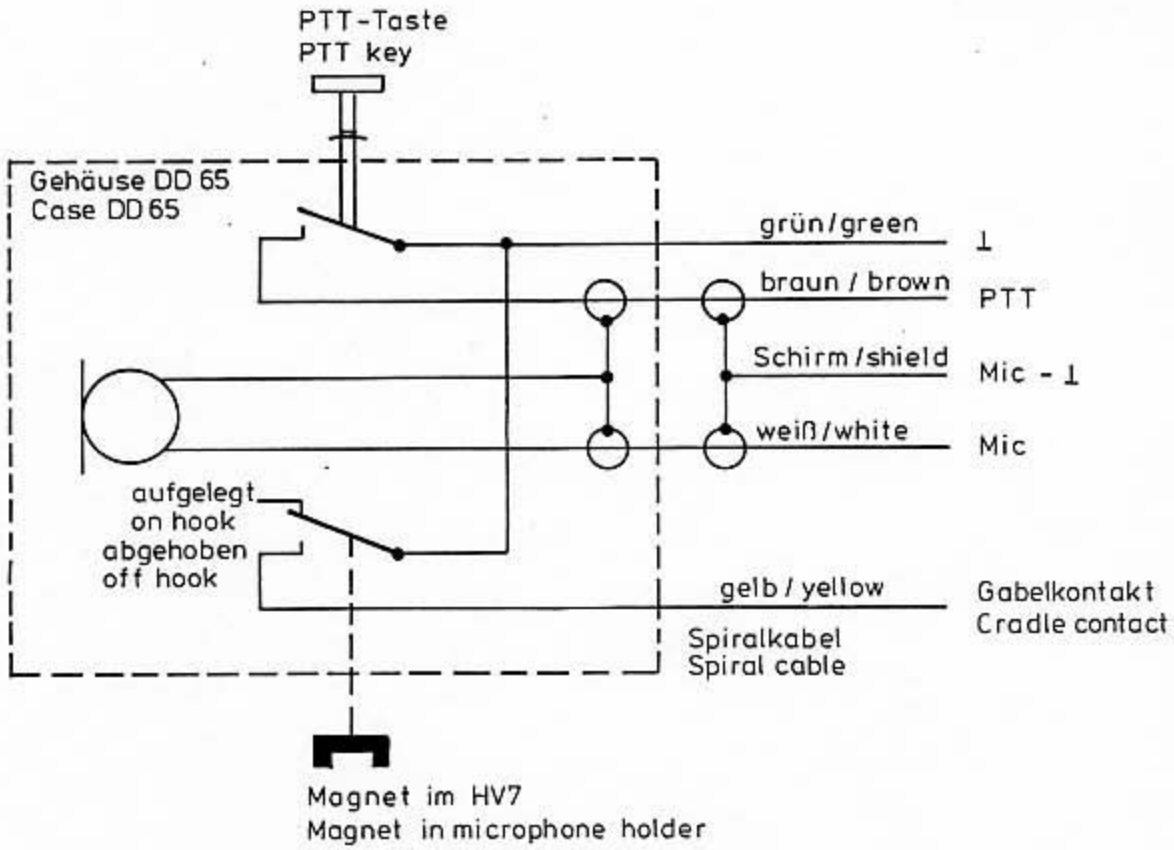
S T A N D A R D P A R T S L I S T

+0831090001004 DYNAM. MICROPHONE DD 65 SE 550

CHANGE NO. 2

ARTICLE NUMBER	QUANTITY	DESCRIPTION
0001206038	1	HEX SOCKET HEAD SCREW BLACK M3X20
0082000115	1	HAND MICR. DD 65 DYN. REED-REL.
0004010003	1	O RING 2,5-1,2 MM
0007032408	1	POLY-SNAP-BAG 160X220 MM
0014101001	1	ANTI-KINK DEVICE FOR MICRO SE550
0014000060	1	BUSHING 6 MM 829168-2 AMP
8310244033	1	LOWER PART OF CABLE CASE
8310244034	1	UPPER PART OF CABLE CASE
+0831970050001	1	MICROPHONE CONNECTOR SE550
+0831090420310	0	WIRING DIAGRAM
0009019009	0.010	LOCTITE ADHESIVE
0095001010	0.020	INSULATION DIPOTHERM 1,0X0,25

END



1993	Tag	Name
Bearb.	26.10	
Gepr.		

ascom
Ascom Pfitzner GmbH
Frankfurt am Main 60

Änderungen vorbehalten

Verdrahtungsplan Mikrofon DD 65
Wiring diagram hand mikrophone DD 65

0831.090.420.310

Carrying Case TB 550

Technical Handbook

0953.E00.E00.001

Edition 00 **October 1993**

FACTORY I
Administration and Development
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60388 Frankfurt

Tel. 06109/738-0
Fax. 06109/738-333
Telex 4 185 968 pfi d

FACTORY II
Manufacture
Eichelhainer Straße 18
36369 Lauterlal (Vogelsberg)

Tel. 06645/18-0
Fax. 06645/1872

SALE

Victor-Slotosch-Straße 11
60388 Frankfurt

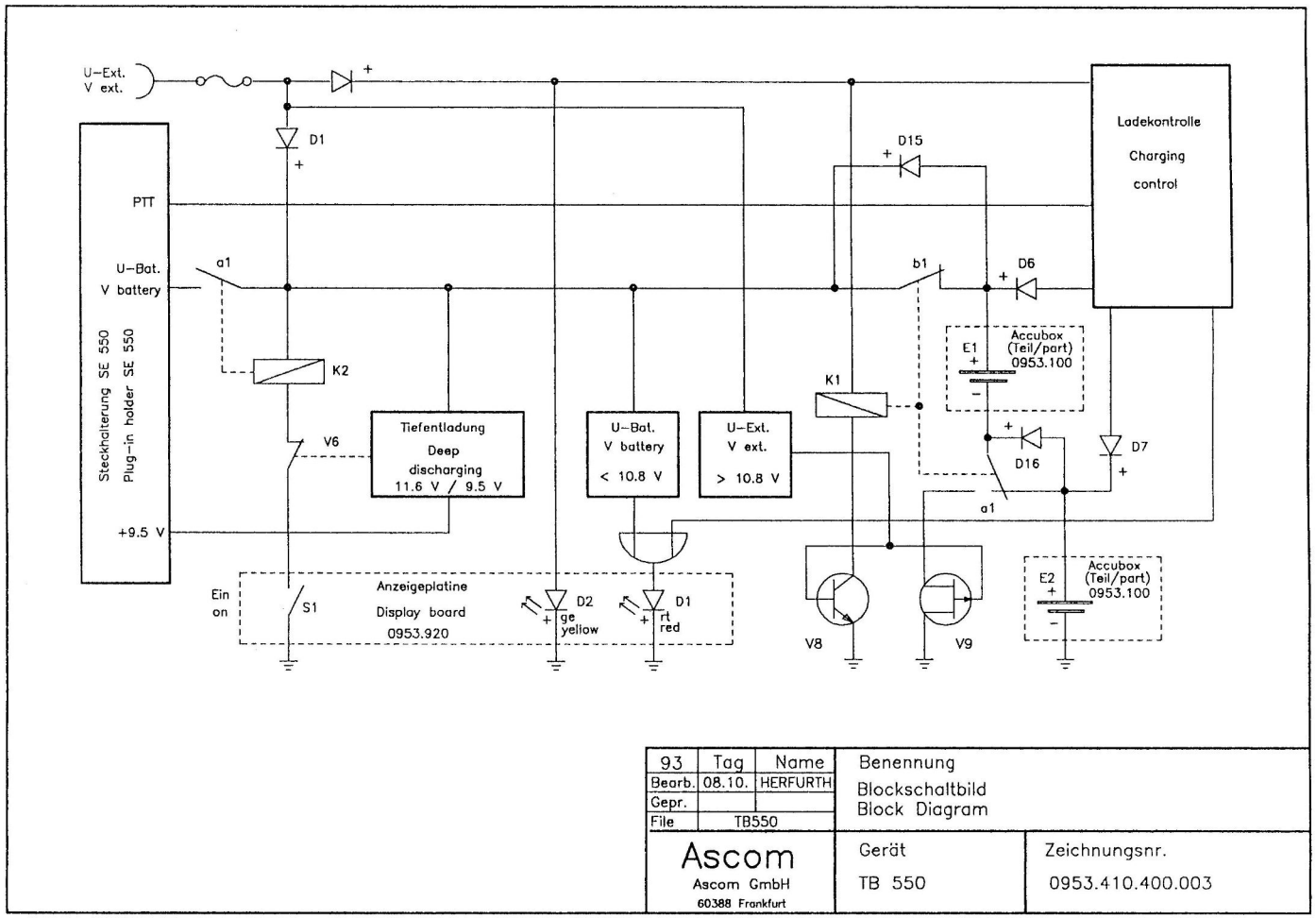
Tel. 06181/912-0
Fax. 06181/912175

POSITION	ARTICLE NUMBER	DESCRIPTION	
R029	0050804221S	SMD RES. 2,21 K 1% 0,25W !	
R030	0050900271S	CHIP RES. 270 R 5% 0,125W 1206!	
R031	0053382503	TRIMMER 50 K 8024EKW503	
R032	0050900333S	CHIP RES. 33 K 5% 0,125W 1206 !	
R033	0050900223S	CHIP RES. 22 K 5% 0,125W 1206 !	
R034	0050804845S	SMD RES. 8,45 K 1% 0,25W !	
R035	0053382503	TRIMMER 50 K 8024EKW503	
R036	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !	
R037	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !	
R038	0050900471S	CHIP RES. 470 R 5% 0,125W 1206!	
R039	0050900103S	CHIP RES. 10 K 5 % 0,125W 1206!	
R040	0050900474S	CHIP RES. 470K 5% 0,125W 1206 !	
R041	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !	
R042	0050900561S	CHIP RES. 560 R 5% 0,125W 1206!	
R044	0050900102S	CHIP RES. 1 K 5% 0,125W 1206 !	
R045	0050900472S	CHIP RES. 4,7 K 5% 0,125W 1206!	
R046	0050900224S	CHIP RES. 220 K 5% 0,125W 1206!	
R047	0050900273S	CHIP RES. 27 K 5% 0,125W 1206 !	
R048	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !	
R049	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !	
R050	0050900473S	CHIP RES. 47 K 5% 0,125W 1206 !	
R051	0053382103	TRIMMER 10 K 8024EKA10K	
R052	0050900272S	CHIP RES. 2,7 K 5% 0,125W 1206!	
R053	0050900272S	CHIP RES. 2,7 K 5% 0,125W 1206!	
V001	0046930848S	SMD NPN-TR. BC 848C 1L VAL !	
V002	0046930848S	SMD NPN-TR. BC 848C 1L VAL !	
V003	0046930858S	SMD PNP-TR. BC 858C 3L VAL !	
V004	0045900808	SI TR. PNP BD808 MOT	
V005	0046930858S	SMD PNP-TR. BC 858C 3L VAL !	
V006	0046930848S	SMD NPN-TR. BC 848C 1L VAL !	
V007	0046930848S	SMD NPN-TR. BC 848C 1L VAL !	
V008	0046930848S	SMD NPN-TR. BC 848C 1L VAL !	
V009	0044920071	MOS-FET BUZ71 SIE	
W001	8310434103	SPACER	
W002	+095302034C044	DISSIPATOR -01	
X001	0017001015	FUSE HOLDER	
X002	0017001015	FUSE HOLDER	
X003	0014002002	SPRING WASHER 3,7 MM	
X004	0014002002	SPRING WASHER 3,7 MM	
X005	0014002002	SPRING WASHER 3,7 MM	
X006	0014002002	SPRING WASHER 3,7 MM	
X008	0014002030	INSULATING BUSH 3,1/3,5 MM	IB6
X009	0014002030	INSULATING BUSH 3,1/3,5 MM	IB6
X010	0014002030	INSULATING BUSH 3,1/3,5 MM	IB6
X011	0014002031	MICA WASHER 12X18 F.TO-220	
X012	0014002031	MICA WASHER 12X18 F.TO-220	
X013	0014002031	MICA WASHER 12X18 F.TO-220	
X014	0017200001	FUSE HOLDER	
X015	0072020005	JUMPER 2-POLE KS30 COMATEL	
X016	0014002002	SPRING WASHER 3,7MM	
X017	0014002030	INSULATING BUSH 3,1/3,5MM	IB6

CONTINUATION

POSITION	ARTICLE NUMBER	DESCRIPTION
X018	0014002031	MICA WASHER 12X18 F.TO-220
Z001	0001361010	CROSS-SLOT SCREW YELLOW M2,5X6
Z002	0001361010	CROSS-SLOT SCREW YELLOW M2,5X6
Z003	0001521008	SHEET-METAL SCREW 2,9X9,5
Z004	0001521008	SHEET-METAL SCREW 2,9X9,5
Z005	0001521008	SHEET-METAL SCREW 2,9X9,5
Z006	0001521008	SHEET-METAL SCREW 2,9X9,5
Z007	0001016075	CYLINDER-HEAD SCREW BLACK M 3X10
Z008	0001016075	CYLINDER-HEAD SCREW BLACK M 3X10
Z009	0001016075	CYLINDER-HEAD SCREW BLACK M 3X10
Z010	0001016075	CYLINDER-HEAD SCREW BLACK M 3X10
Z011	0001241010	HEX-NUT YELLOW M 3,0
Z012	0001241010	HEX-NUT YELLOW M 3,0
Z013	0001241010	HEX-NUT YELLOW M 3,0
Z014	0001241010	HEX-NUT YELLOW M 3,0
Z015	0001016075	CYLINDER-HEAD SCREW BLACK M 3X10
Z016	0001241010	HEX-NUT YELLOW M 3,0

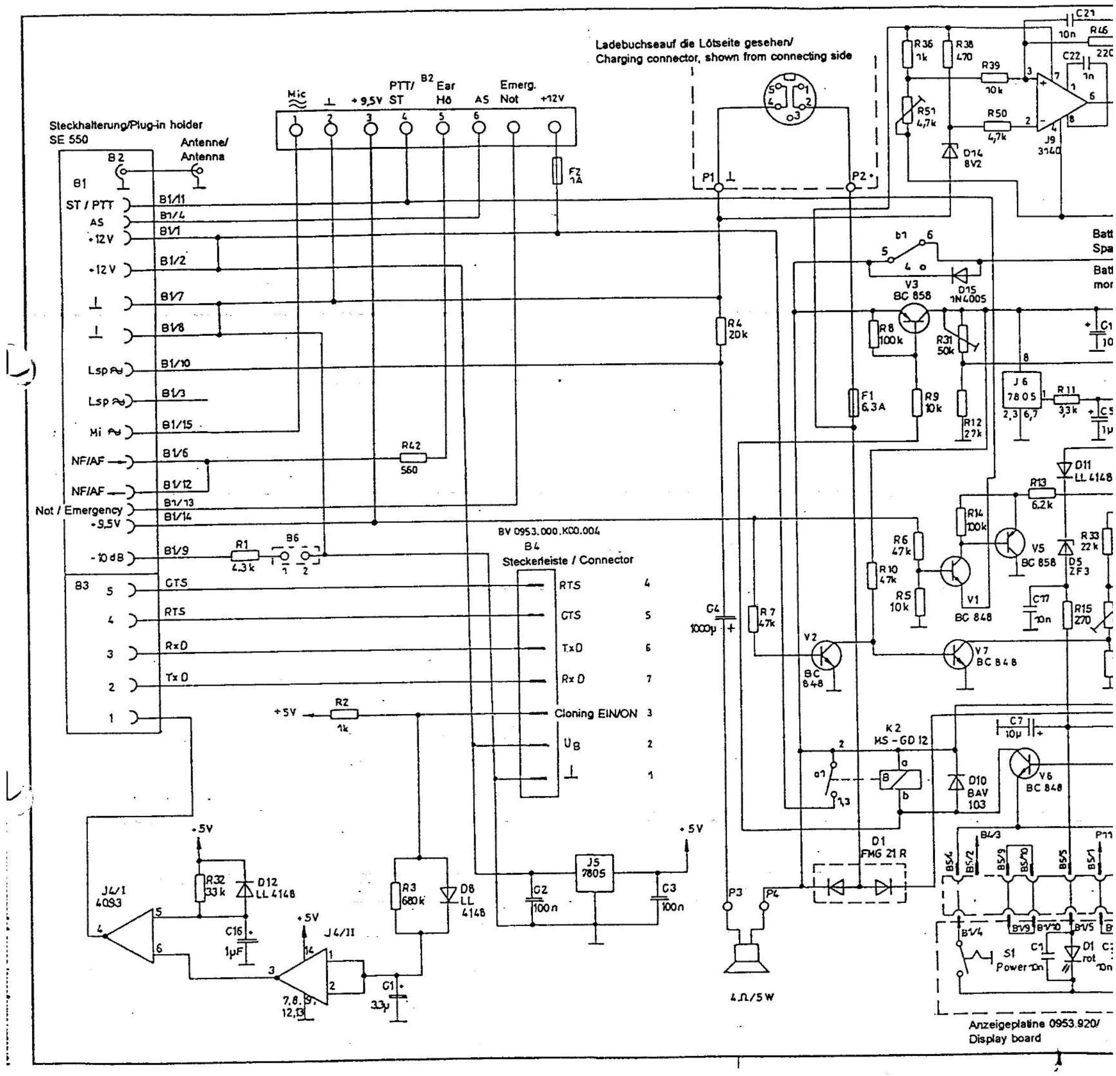
END



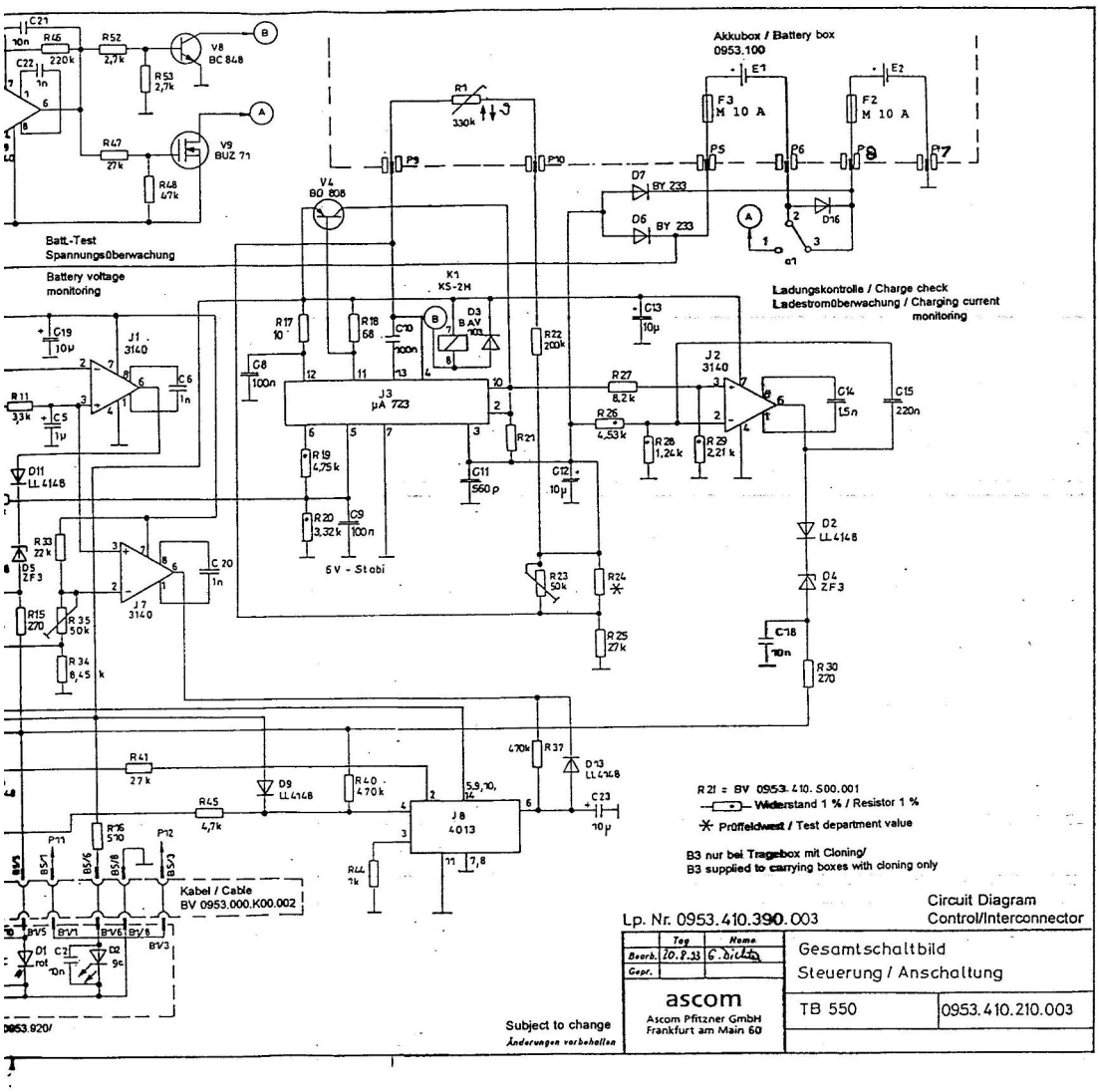
93	Tag	Name	Benennung
Bearb.	08.10.	HERFURTH	Blockschaltbild Block Diagram
Gepr.			
File	TB550		

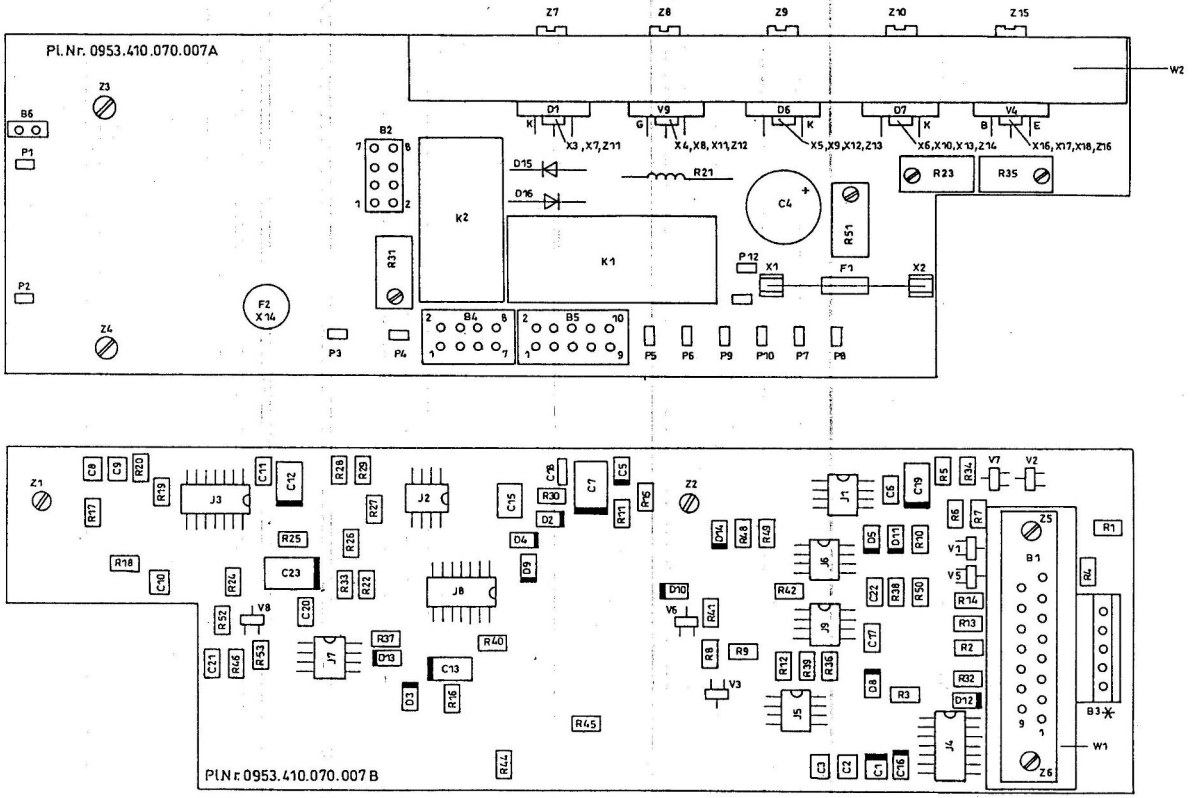
Ascom
Ascom GmbH
60388 Frankfurt

Gerät	Zeichnungsnr.
TB 550	0953.410.400.003



Ladebuchseauf die Lötseite gesehen/
Charging connector, shown from connecting side
Steckhalterung/Plug-in holder
SE 550
Antenne/
Antenna
Mic
PTT/ ST
Ear Hö
AS
Emerg. Not
+12V
+9,5V
ST / PTT
+12V
Lsp
Mi
NF/AF
Not / Emergency
+9,5V
-10 dB
CTS
RTS
RxD
TxD
BV 0953.000.K00.004
Steckerleiste / Connector
Cloning EIN/ON
4093
7805
LL 4148
BC 858
1N4005
BC 848
ZF3
HS-GD 12
BAV 103
FMG 21 R
3140
4Ω/5W
Power on
Anzeigeplatine 0953.920/
Display board


Akkubox / Battery box
0953.100
Batt.-Test
Spannungsüberwachung
Battery voltage
monitoring
Ladungskontrolle / Charge check
Ladestromüberwachung / Charging current monitoring
5V - Stabi
Kabel / Cable
BV 0953.000.K00.002
R 21 = BV 0953.410.S00.001
Widerstand 1 % / Resistor 1 %
Prüffeldwert / Test department value
B3 nur bei Tragebox mit Cloning/
B3 supplied to carrying boxes with cloning only
Lp. Nr. 0953.410.390.003
Circuit Diagram
Control/Interconnector
Gesamtschaltbild
Steuerung / Anschaltung
ascom
Ascom Pfitzner GmbH
Frankfurt am Main 60
TB 550
0953.410.210.003
Subject to change
Änderungen vorbehalten



✳ B3 nur bei Trogebox mit Cloning

B3 supplied to carrying boxes with cloning only

Subject to change

Änderungen vorbehalten

	Tag	Name
Bearb.	23.7.91	G. Lau
Gepr.		

ascom

Ascom Pfitzner GmbH
Frankfurt am Main 60

Steuerung/Anschaltung
Control/Interconnector

TB 550 | 0953.410.390.003

S T A N D A R D P A R T S L I S T

+0953010060101 CASING PART 2 TB 550

CHANGE NO. 1

ARTICLE NUMBER	QUANTITY	DESCRIPTION
0001800160	2	EJOT-PT-SCREW KB 30X10
+0953000K00005	1	LOADING CONNECT. BV-0953.000.K00.005
+0953920050001	1	DISPLAY BOARD
+095301T040025	1	CASING PART 2 VARNISHED
+095301T040026	1	VARNISHED MASK
+0953030680033	1	ASCOM LABEL COMPLETE
+0953030680039	1	OPERATING PANEL II COMPLETE

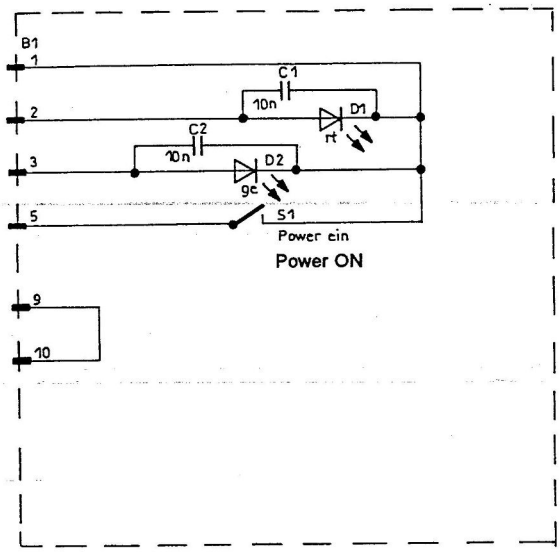
END

PARTS LIST +0953 920 150 001

DISPLAY BOARD TB 550 CHANGE NO. 03

POSITION	ARTICLE NUMBER	DESCRIPTION
A001	+0953920070002	BOARD DK 80 X 35 MM
A002	+0953920490001	PCB LAYOUT -03
A003	+0953920410001	CIRCUIT DIAGRAM -02
B001	0072108202	CONNECTOR 10-POLE FROM 72508202
C001	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
C002	0061345103S	CER. CAP. 10NF 63V X7R 0805 !
D001	0041950032	LED 5MM RED SLR-56 VR 3 !
D002	0041950034	LED 5MM YELLOW SLR-56 YY 3 !
S001	0070042015	SWITCH 2XE-E MFP 221N SW
W001	4210954076	SPACER FOR LED -01
W002	4210954076	SPACER FOR LED -01

END



rt = red
ge = yellow

Lp.Nr.0953.920.490.001

	Tag	Name
Bearb.	46.91	BGH
Gepr.		

PFITZNER TELETRON
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Frankfurt/Main 60

Anzeigeplatine
Display Board

TB 550 | 0953.920.410.001

02

Subject to change
Änderungen vorbehalten

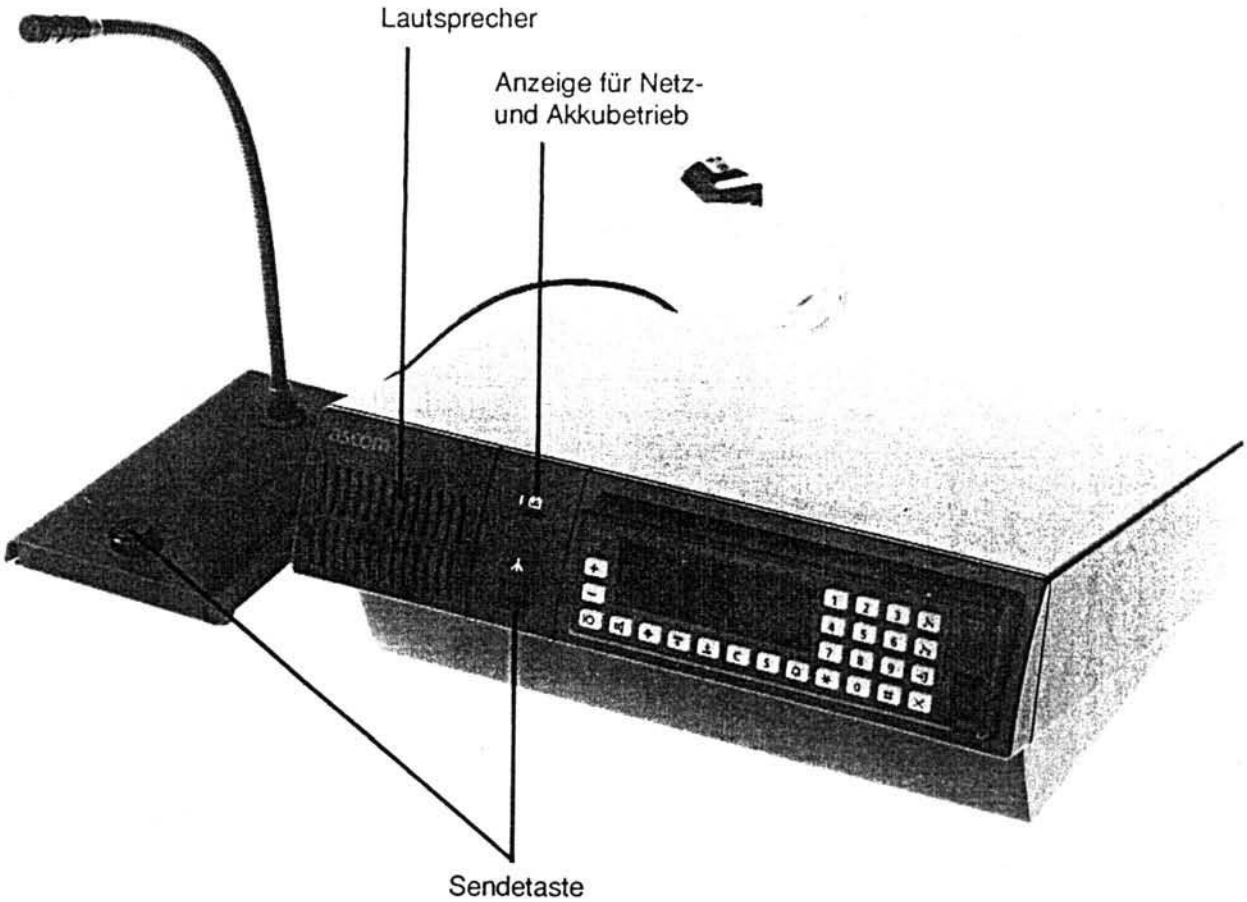
ERROR: stackunderflow
OFFENDING COMMAND: ~

STACK:

Beilagen:

SZ 954.000.210.001	Schema Tischfixstation UT 550
ZZ 954.140.390.001	Zusammenstellungszeichnung Stabilisatorplatine zu UT 550
LS 954.140.150.001	Stückliste Stabilisatorplatine zu UT 550
ZZ 954.110.490.001	Zusammenstellungszeichnung Gleichrichterplatine zu UT 550
LS 954.110.150.001	Stückliste Gleichricherplatine zu UT 550
ZZ 954.920.490.001	Zusammenstellungszeichnung Anzeigeplatine zu UT 550
LS 954.920.150.001	Stückliste Anzeigeplatine zu UT 550
ZZ 954.190.390.001	Zusammenstellungszeichnung Steckhalterung zu UT 550

Das Tischfix-Gehäuse UT 550 dient zur Verwendung des SE 550-Gerätes im stationärem Betrieb. Es enthält einen Netzteil zur Speisung des Funkgerätes und einen Lautsprecher. Der Netzteil ist auch als Ladeschaltung für einen externen Pufferakkumulator konzipiert.



Mit dem Einschieben des Funkgerätes in den Geräteschacht des Tischfix-Gehäuses werden alle für den Betrieb erforderlichen Verbindungen hergestellt.

Die Betriebsbereitschaft und der Ladevorgang werden durch Kontroll-LED auf der Frontseite des Gerätes angezeigt.

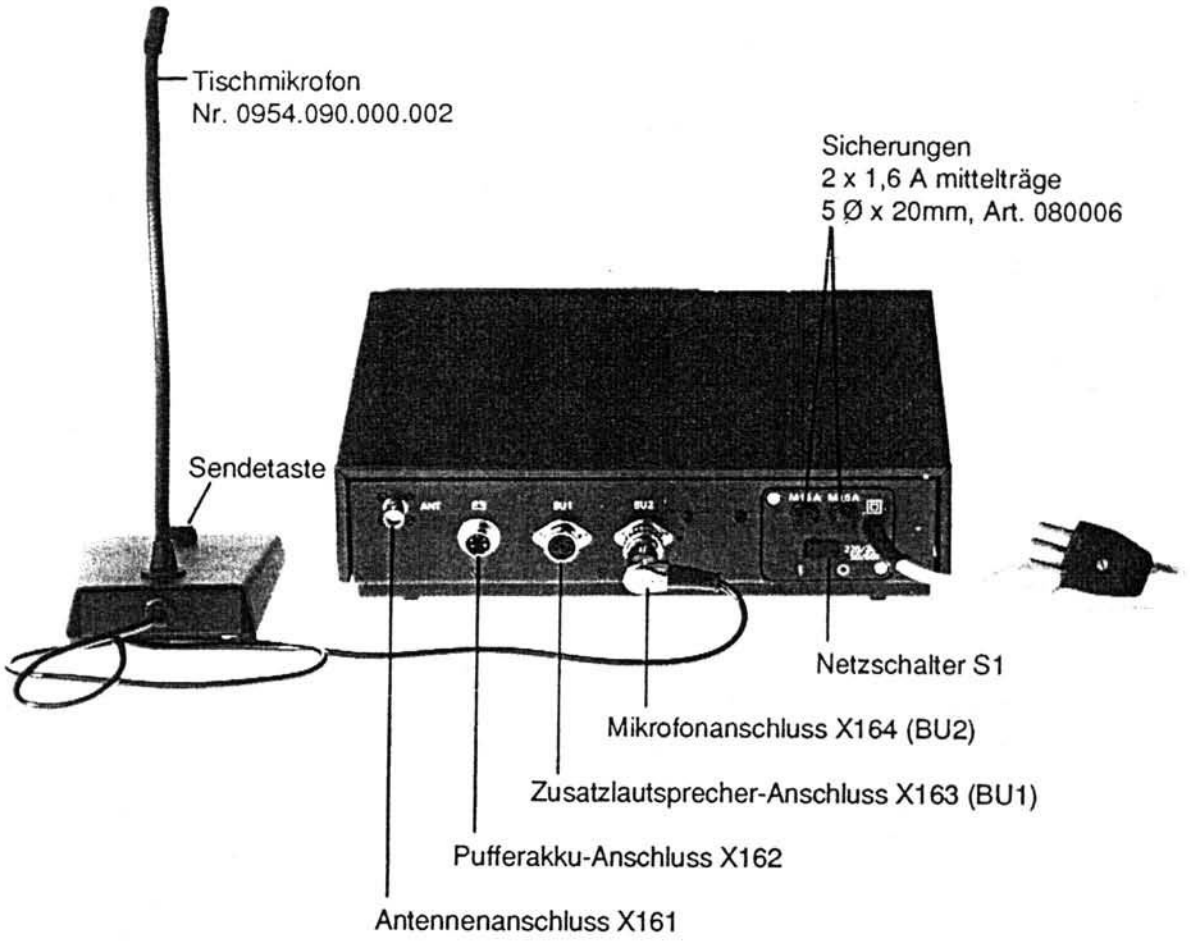
An der Frontseite befinden sich:

- Lautsprecher
- Sendetaste
- Einschaltanzeige für Netzbetrieb (gelbe LED)
- Anzeige für Netzausfall bzw. Akkubetrieb (zwei in Serie geschaltete rote LED) die nur in Verbindung mit einem externen Pufferakku eine Aussage liefern. Ansonsten leuchten bei Netzausfall die beiden roten LED's nur kurzzeitig auf, bis das Funkgerät spannungslos ist.

Das UT 550 enthält einen Mikrofonverstärker, der für ein Elektret-Mikrofon mit 9 V–Betriebspannung und 1 mV Ausgangsspannung ausgelegt ist. Die (einstellbare) Verstärkung beträgt nominal 40 dB.

An der Rückseite befinden sich:

- der Netzschalter mit den netzseitigen Sicherungen
- die Anschlüsse für – Antenne
  – Mikrofon
  – Zusatzlautsprecher



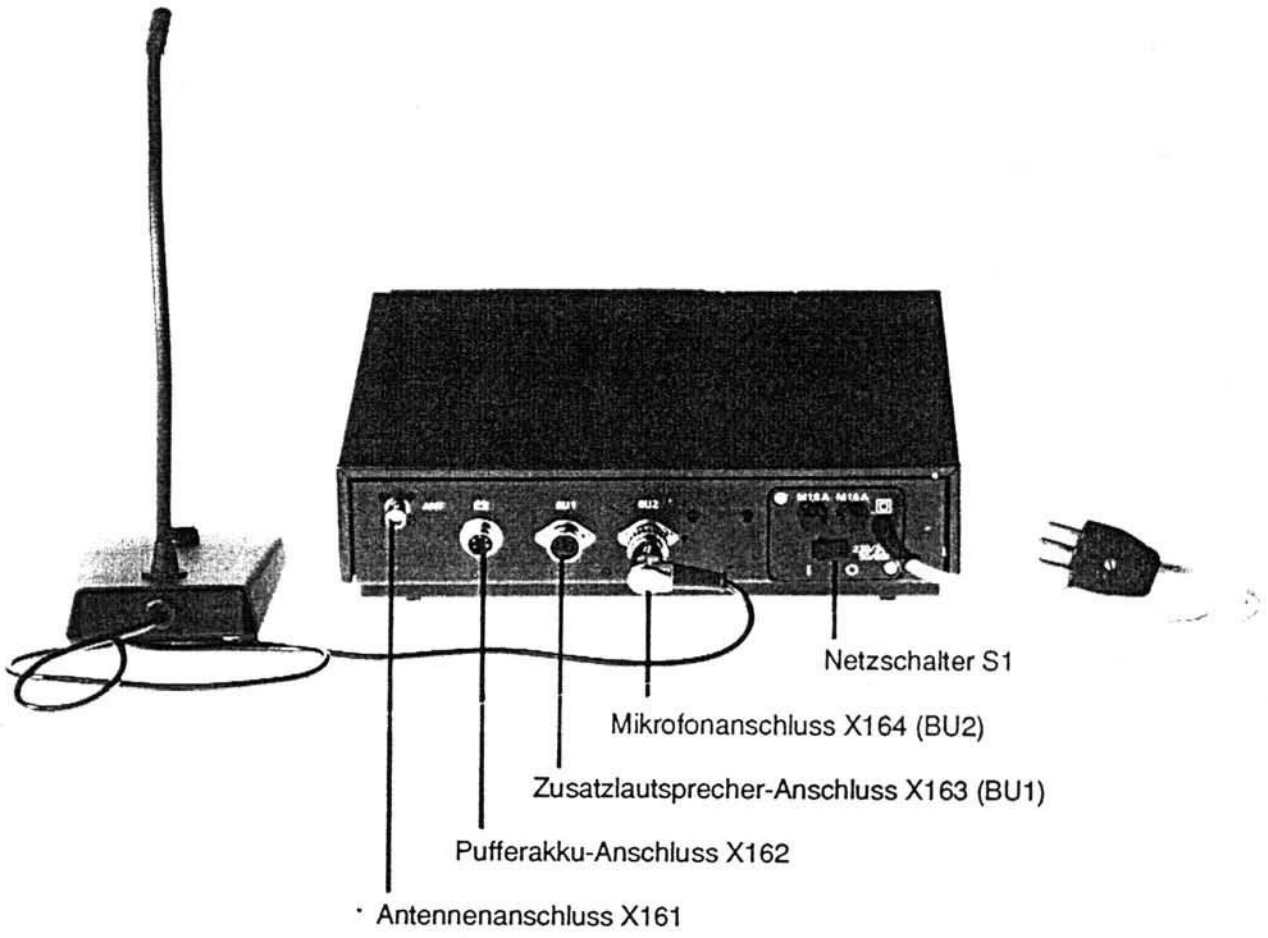
Als Mikrofon kann wahlweise ein Schwanenhals- oder ein Tischmikrofon benützt werden.

Beim Netzbetrieb wird der Akku geladen, bzw. seine Ladung erhalten.

Ein Pufferakku ist grundsätzlich notwendig, um beim Senden den Störmodulationsabstand nach CEPT einzuhalten.

Der Pufferakku muss aus Sicherheitsgründen mit einer 10 A-Sicherung abgesichert werden.

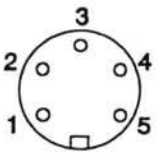
- Funkgerät in Tischfix UT 550 einschieben, Mikrofon an X164 anschliessen.
- Antenne am Antennen-Anschluss X161 anschliessen.
- Pufferakku und Zusatzlautsprecher (wenn vorgesehen) am X162, bzw. X163 anschliessen.
- Tischfix am 220 / 240V-Netz anschliessen.



Steckerbelegung

Alle Stecker von der Steckseite her gesehen

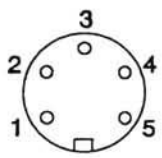
X162



1, 2 + Batterie

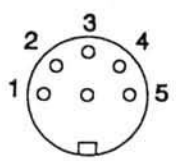
4, 5 – Batterie

X163 (BU1)

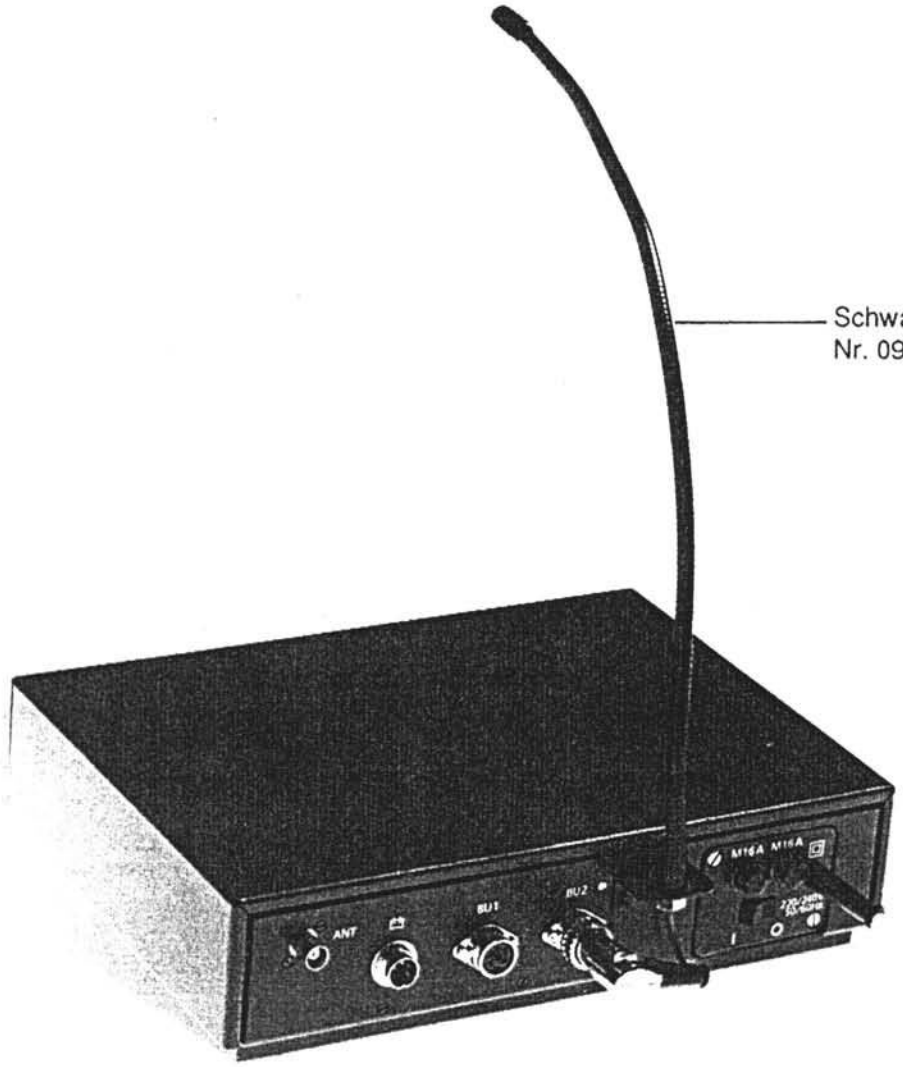


1 n.b. (nicht belegt)
2 AS (Aussensignalisierung)
3 ST,PTT (Sendetaste)
4 Lsp (Lautsprecher)
5 Lsp (Lautsprecher)
6 Masse

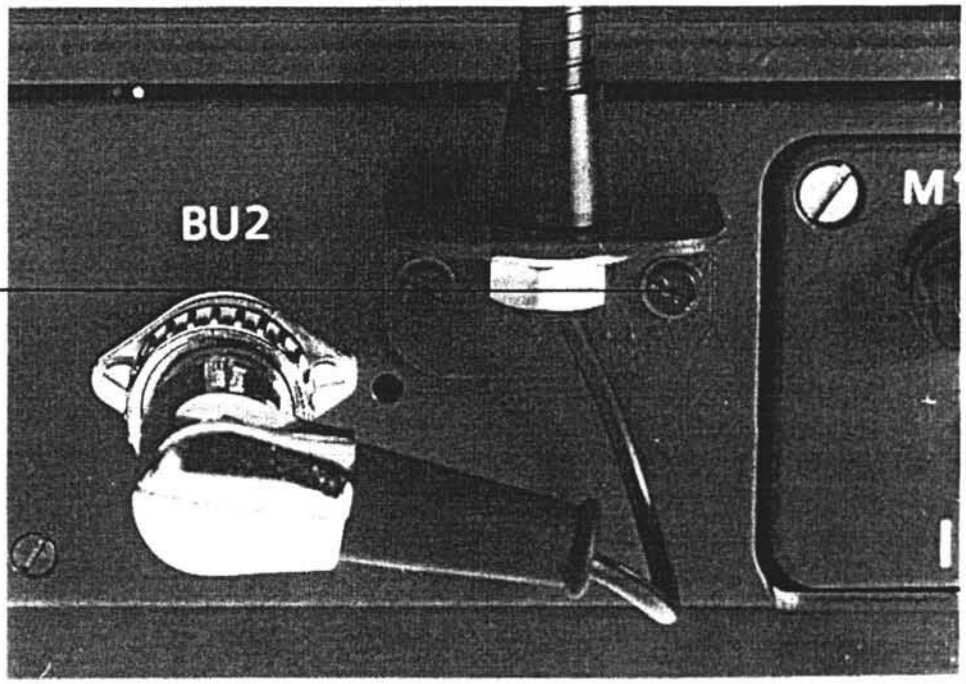
X164



1 Mic 1mV (Elektret)
2 Hörer 600 Ω
3 ST,PTT (Sendetaste)
4 n.b. (nicht belegt)
5 n.b. (nicht belegt)
6 Masse



Schwanenhalsmikrofon
Nr. 0954.090.000.001

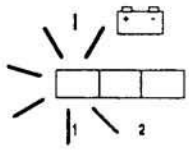
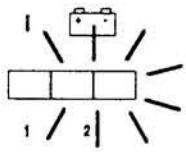


Befestigung mittels 2
am Gerät vorhandenen
Schrauben

Bezeichnung	UT 550
Stromversorgung	220/240 V, 50/60 Hz
Ausgangsspannung	13,2 V =, – an Masse
Belastbarkeit des Netzteils, ausgangsseitig	max. 7A (kurzfristig 8A)
Lautsprecher	5W, 8 Ω
Sicherung	2 x 1,6 A mittelträge, 5Ø x 20 mm Art. 080006
Vorgeschlagener Pufferakku	Wartungsfreie Bleiausführung Nominelle Spannung: 12 V Kapazität: 5 ... 10 Ah

Abmessungen:

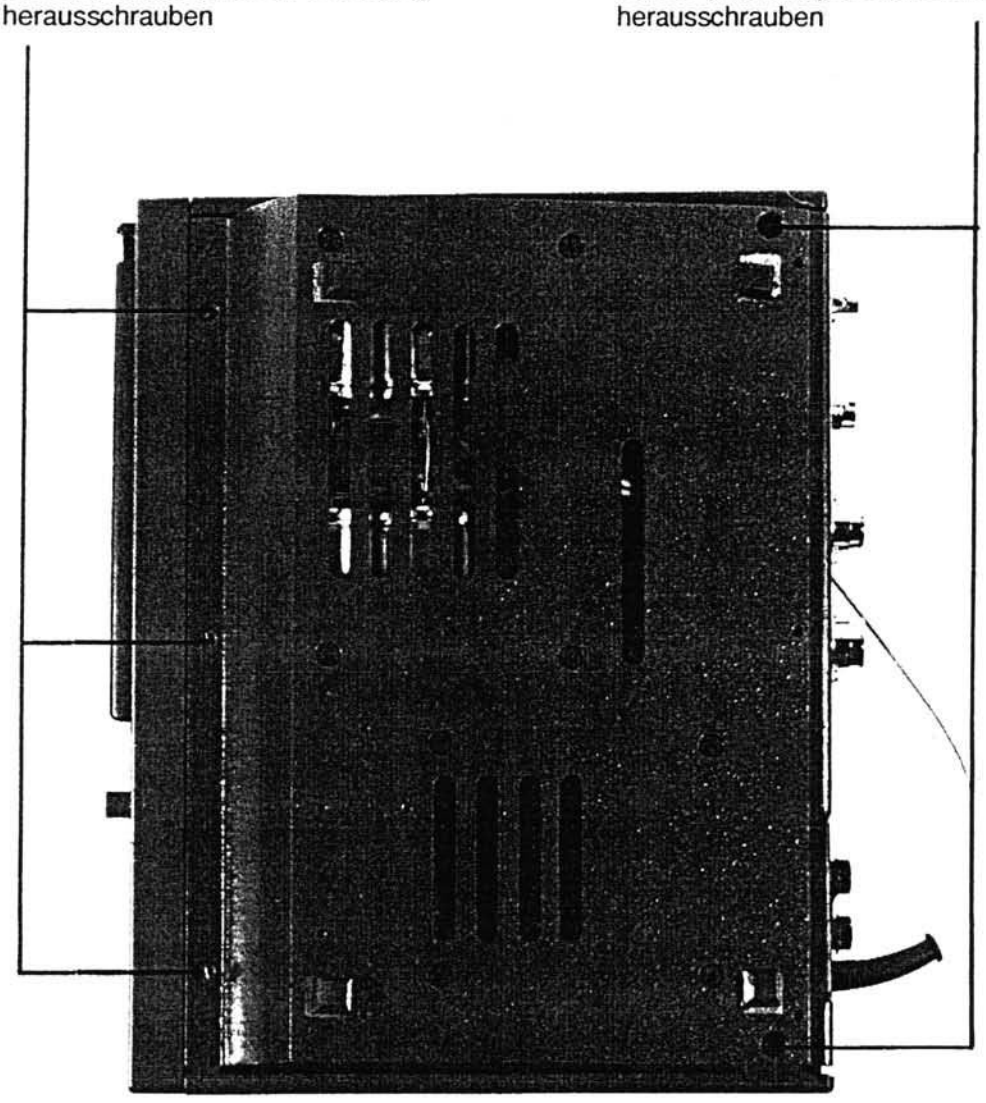
Masse H x B x T	122 x 301 x 255 mm
Gewicht	Tischfix = 4,3 kg SE 550 = 1,4 kg Total = 5,7 kg

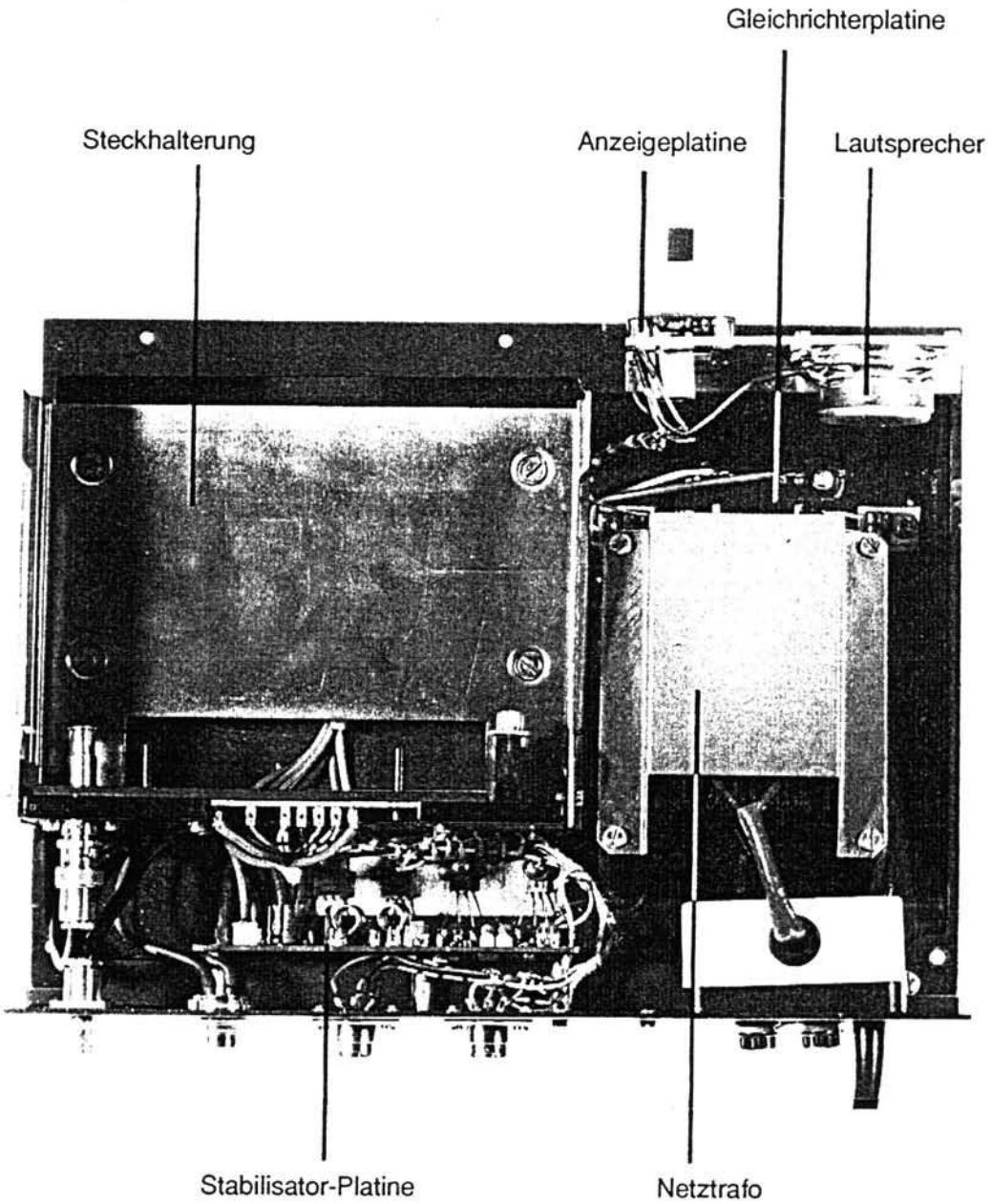
Aktion	Reaktion	Bemerkungen
• Netzschalter S1 auf I. • Taste I O des Funkgerätes betätigen.		LED 1, gelb, leuchtet. **Das Funkgerät ist betriebsbereit.** Der externe Pufferakku wird geladen. Der Ladezustand wird nicht angezeigt.
Netzausfall		LED 2 leuchtet. **Das Funkgerät wird durch den Pufferakku gespeist.** Mit einem 8 Ah-Akku kann das Funkgerät während ca. 8 Std. betrieben werden (80% Standby, 10% Senden, 10% Empfang).

Bei mehrtägigem Abschalten des Netzes (z.B. Ferienzeit) muss der Pufferakku vom UT 550 getrennt werden, um eine unerwünschte Entladung zu verhindern.

Alle drei Senkschrauben vollständig herausschrauben

Beide Zylinderkopfschrauben vollständig herausschrauben

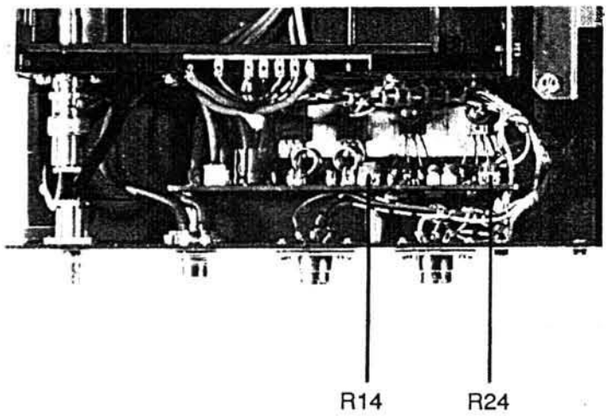


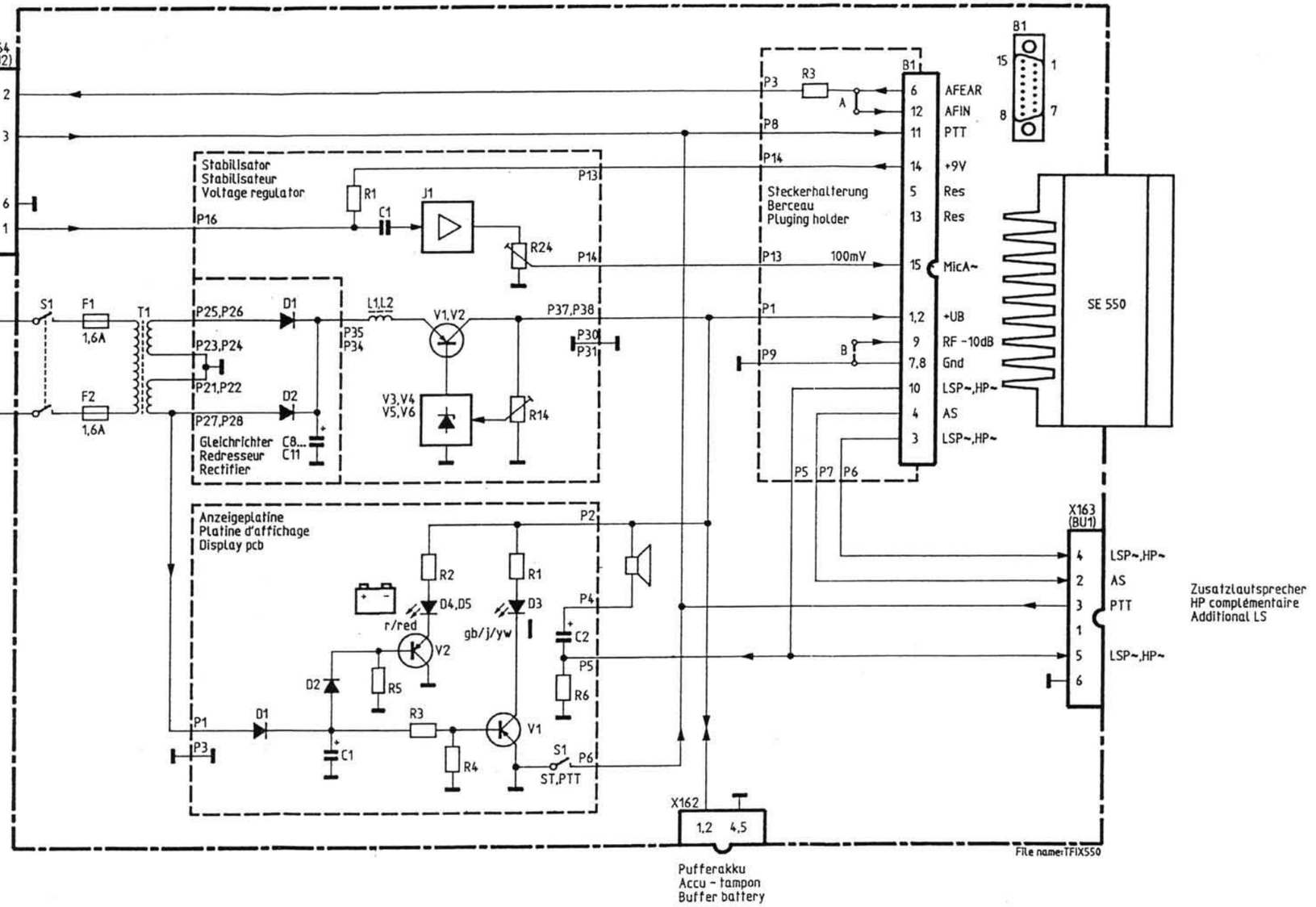

Gleichrichterplatine
Steckhalterung
Anzeigeplatine
Lautsprecher
Stabilisator-Platine
Netztrafo

Funktionsbeschreibung

Die Ausgangsspannung des Mikrofonverstärkers kann mit R24 auf 100 mV eingestellt werden.

Das Blockschema zeigt die Funktion des Netzteils. Die Ausgangsspannung kann mit R14 eingestellt werden. Dabei ist zu beachten, dass die Ladespannung von wartungsfreien Bleiakkus nicht höher als 13.8 V (entsprechen 2.3V/Zelle) liegen darf!





POSITION	ARTIKELNUMMER	BESCHREIBUNG
02 8	+0831000000999	BLINDSTECKER MIC.+KSV SE 550
02 9	+0954020480010	SICHERUNGSKASTEN KPL. -01
01 12	+0954190060001	STECKH.KPL. TISCHFIX SE 550
01 15	+0954140050001	STABI TISCHFIX SE 550
01 18	+0954110050001	GLEICHRICHTER-PLT.TISCHF SE 550
01 21	+0954920050001	ANZEIGEPLATINE TISCHFIX SE 550
02 24*	0001800159	GERÄTEFUSS
02 30*	0081000799	LAUTSPR. 8 OHM LS 51/F PEI
01 39*	0014002031	GLIMMERSCHEIBE 12X18 F.TO-220
01 42*	0014002030	ISOLIERBUCHSE 3,1/3,5MM IB6
02 51*	0045900808	SI-TR. PNP BD808 MOT
01 54*	0045904919	SI-TR. PNP 2N4919 MOT
02 57*	0046904921	SI-TR. NPN 2N4921 MOT
02 60*	0067472472	ELKO BE.AA 4700UF 40V <30X45
02 63*	0015920025	ISOL.SCHEIBE F.ELKO 8MM
01 66*	0015920024	ISOL.SCHEIBE F.ELKO M.ANSATZ
02 69*	0017000009	SICH.HALTER RENK-VERSCHLUSS
01 72*	0017000160	SICHERUNG 1,6 A MT
02 75*	0070034010	KIPPSCHALT. 2XE-E 9221-J1 C&K
02 81*	0090020000	NETZKABEL 2X0,75 WS
02 84*	0031251092	NETZTRAFO NF1091/1 2X15V/2A
02 87*	0072059102	RENK-BU. 5-P. 240GR. L\T
01 90*	0072059100	RENK-BU. 5-P. 180GR. L\T
01 93*	0072059143	EINBAU-ST. BV+0954.000.K00001
01219	+095402S280016	ABDECKHAUBE 7930 -01
01222	+0954030440018	LAUTSPRECHERSTOFF
01225	+0954030680019	FRONTRAHMEN KPL.
01279*	0001016099	ZYL.SCHRAUBE M 4X10
01294*	0001256058	SENKSCHRAUBE M 3X5

ENDE

UL-Art	Nr.
SZ	954.000.210.001

Stift-Belegung/Brochage/Pin assignment

1 Mic 1mV (elektret)
2 Hörer/écouteur/earphone 600Ω
3 ST
4 nc.
5 nc.
6 Masse/Ground

X164 (BU2)

T1 NF 1091

F1 2 x 1,6 A

S1

Gleichrichterplatine
Platine du redresseur
Rectifier pcb
0954.110

4 x 4700uF/40V

Stabilisator
Stabilisateur
Voltage regulator
0954.140

Brücke/Pont /Jumper B	
offen/ouvert/open	Nennleistung/Puissance nominale/Nominal power
zu/fermé/inserted	-10dB

B1
15-polig/pôles/poles

Steckhalterung
Berceau
Plug-in holder
0954.190

X162, X163, X164 sind von der Steckseite her gesehen
X162, X163, X164 sont vus du coté des broches
X162, X163, X164 are shown from the connecting side

Zusatz-Lautsprecher
HP complementaire
Additional LS

1 nc.
2 AS Signalisierung, signalisation, signl. max. 12V, 500mA (BC817)
3 ST, PTT
4 Lsp, HP
5 Lsp, HP
6 Masse, Gnd

X163 (BU1)

Netz
Réseau
Mains

Akku
Accu
Battery

Anzeigenplatine
Platine d'affichage
Display pcb
0954.920

D1, D2 = LL 4148

Pufferakku
Accu-tampon
Buffer battery

X162

Gezeichnet	Gepr.	Ges.
11.11.91 3003/Bo	2665	502385

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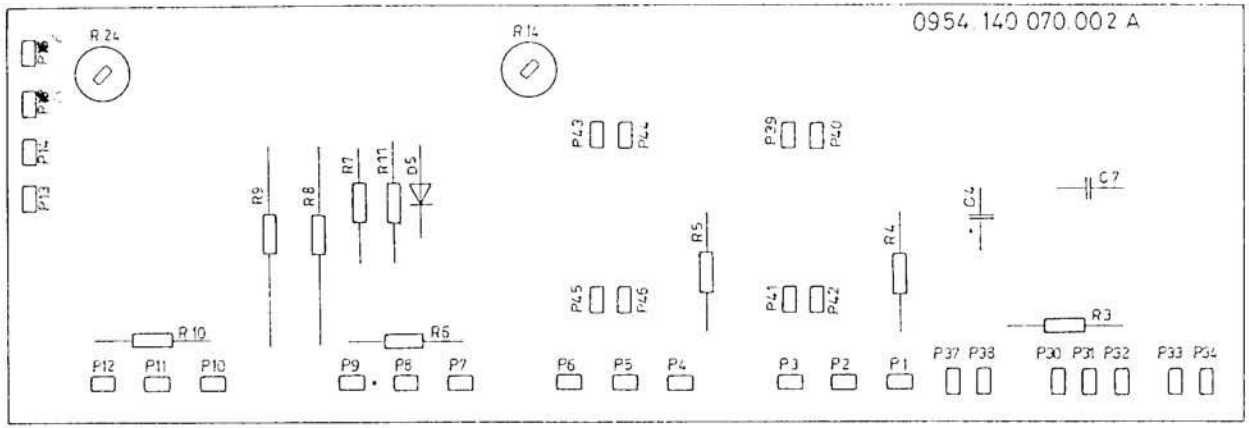
Ascom Radiocom AG

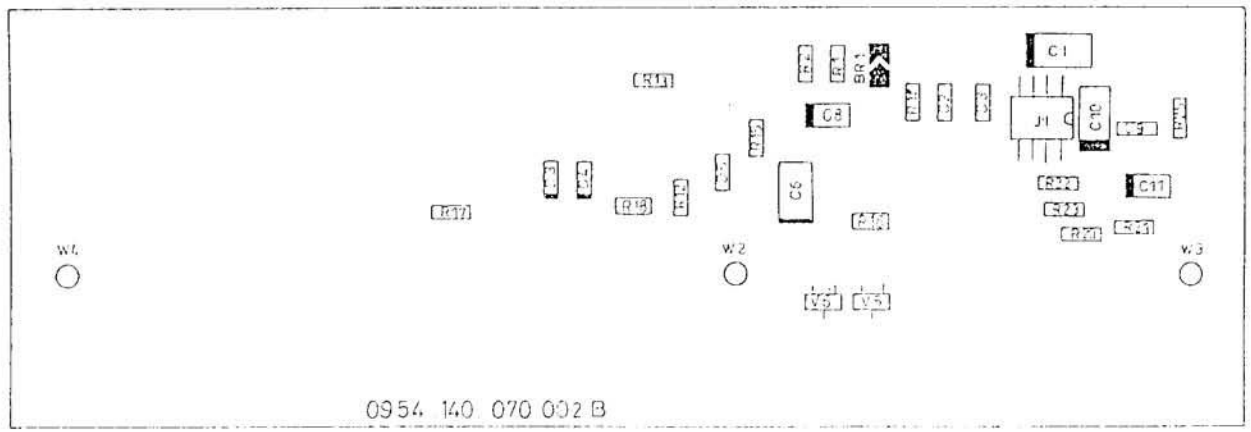
UT550 Gesamtschema
Schéma d'ensemble
Overall diagram

Ersatz für
Ersetzt durch
Blatt:

Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

UL-Art	Nr.
SZ	954.000.210.001



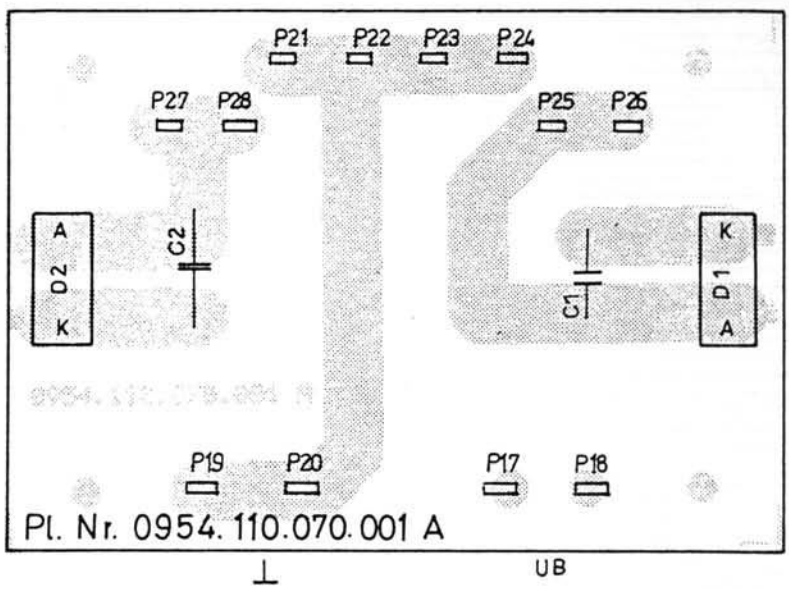


Gezeichnet 7.11.91	Gepr 2665	Ges 5e2385	UT550 Stabilisatorplatine Platine du stabilisateur Voltage regulator pcb					Ersatz für Ersetzt durch Blatt	
ascom Ascom Radiocom AG	Geändert /a /b /c	Gepr	Geändert d e f	Gepr	UL Art	Nr ZZ	954.140.390.001A/B		

POSITION	ARTIKELNUMMER	BESCHREIBUNG
01C001	0068116106S	TAN.CHIP-C. 10UF 16V 10% !
01C002	0061341152S	KER.CHIP 1,5NF 50V NP0 1206 !
01C003	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
01C004	0067321101	ELKO STEHD. 100UF 25V RM3,5
01C005	0061341182S	KER.CHIP 1,8NF 63V NPO 1206 !
01C006	0068120685S	TAN.CHIP-C.6,8UF 20V 10% !
01C007	0063638104	C RAD MKS-2 0,1UF 20% 63V 2RM
01C008	0068116106S	TAN.CHIP-C. 10UF 16V 10% !
01C009	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
01C010	0068116106S	TAN.CHIP-C. 10UF 16V 10% !
01C011	0068116335S	TAN.CHIP-C.3,3UF 16V 10% !
01D003	0040624148S	SMD-DIO. LL4148 !
01D004	0040624148S	SMD-DIO. LL4148 !
01D005	0042602056	Z-DIODE ZPD 5,6 0,5W
01J001	0048900083S	SMD-IC TL082ID -25-+85GR.C
01L001	0039424503	DRAHTLOCKE BV 39.424.503
01L002	0039424503	DRAHTLOCKE BV 39.424.503
01P001	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P002	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P003	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P004	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P005	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P006	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P007	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P008	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P009	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P010	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P011	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P012	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P013	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P014	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P015	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P016	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P030	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P031	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P032	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P033	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P034	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P037	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P038	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P039	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P040	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P041	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P042	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P043	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P044	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P045	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P046	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01R001	0050900202S	CHIP-WID.2,0 K 5% 0,125W 1206!

POSITION	ARTIKELNUMMER	BESCHREIBUNG
01R002	0050900331S	CHIP-WID.330 R 5% 0,125W 1206!
01R003	0050110471	WID BB 470 OHM 0,25W
01R004	0050110100	WID BB 10 OHM 0,25W
01R005	0050110100	WID BB 10 OHM 0,25W
01R006	0050110472	WID BB 4,7 K 0,25W
01R007	0050110103	WID BB 10 K 0,25W
01R008	0051210820	WID LH 82 OHM 10% 1W 7RM
01R009	0051210820	WID LH 82 OHM 10% 1W 7RM
01R010	0050110102	WID BB 1,0 K 0,25W
01R011	0050110242	WID BB 2,4 K 0,25W
01R012	0050900471S	CHIP-WID.470 R 5% 0,125W 1206!
01R013	0050900302S	CHIP-WID 3,0 K 5% 0,125W 1206!
01R014	0053443222	TR. 2,2 K FL. EVM-36G NAT
01R015	0050900202S	CHIP-WID.2,0 K 5% 0,125W 1206!
01R016	0050900221S	CHIP-WID.220 R 5% 0,125W 1206!
01R017	0050900682S	CHIP-WID.6,8 K 5% 0,125W 1206!
01R018	0050900471S	CHIP-WID.470 R 5% 0,125W 1206!
01R019	0050900301S	CHIP-WID.300 R 5% 0,125W 1206!
01R020	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
01R021	0050900104S	CHIP-WID.100K 5% 0,12=W 1206 !
01R022	0050900684S	CHIP-WID.680 K 5% 0,125W 1206!
01R023	0050900222S	CHIP-WID.2,2 K 5% 0,125W 1206!
01R024	0053443103	TR. 10 K FL. EVM-36G NAT
01R025	0050900333S	CHIP-WID.33 K 5% 0,125W 1206 !
01V005	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
01V006	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
ENDE		

UL - Art	Nr.
ZZ	954.110.490.001



Gezeichnet	Gepr.	Ges.
7.11.91 3003/Bo	2665	So2325

UT550 Gleichrichterplatine
Platine du redresseur
Rectifier pcb

Ersatz für .....
Ersetzt durch .....
Blatt:

ascom
Ascom Radiocom AG

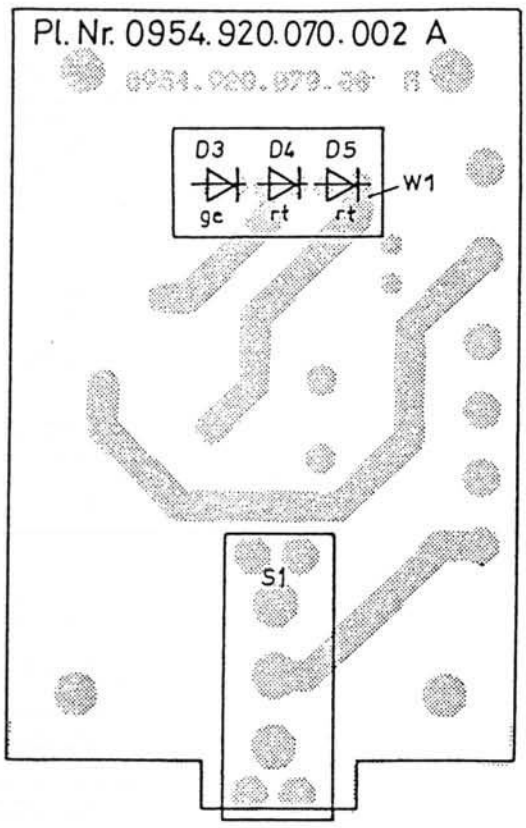
Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

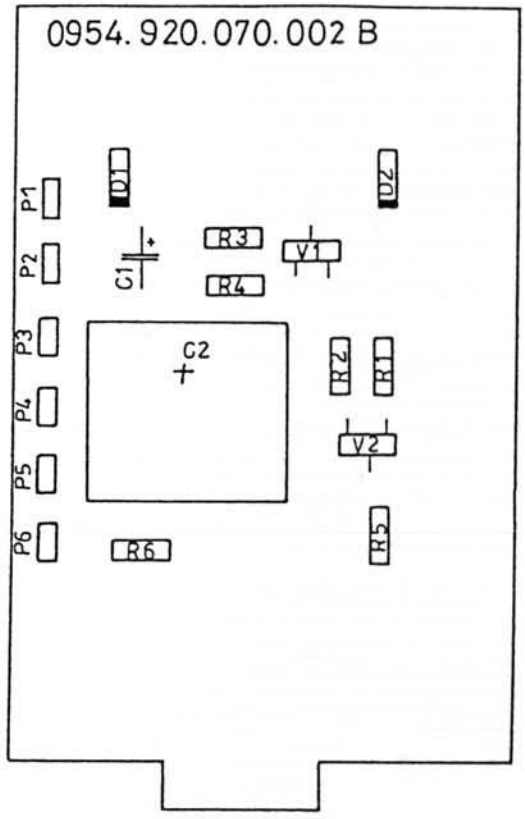
UL - Art	Nr.
ZZ	954.110.490.001

POSITION	ARTIKELNUMMER	BESCHREIBUNG
01C001	0063638104	C RAD MKS-2 0,1UF 20% 63V 2RM
01C002	0063638104	C RAD MKS-2 0,1UF 20% 63V 2RM
01D001	0040520080	SI.-DIODE BYW80/100 7A THO
01D002	0040520080	SI.-DIODE BYW80/100 7A THO
01P017	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P018	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P019	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P020	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P021	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P022	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P023	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P024	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P025	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P026	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P027	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P028	0014000040	ST.LOETOESE 1002M VERZ. VOGT

ENDE

UL - Art	Nr.
ZZ	954.920.490.001





Gezeichnet	Gepr.	Ges.
7.11.91 3003/Bo	2665 Ab	So 2385 Hf

UT550 Anzeigeplatine
Platine d'affichage
Display pcb

Ersatz für
Ersetzt durch
Blatt:

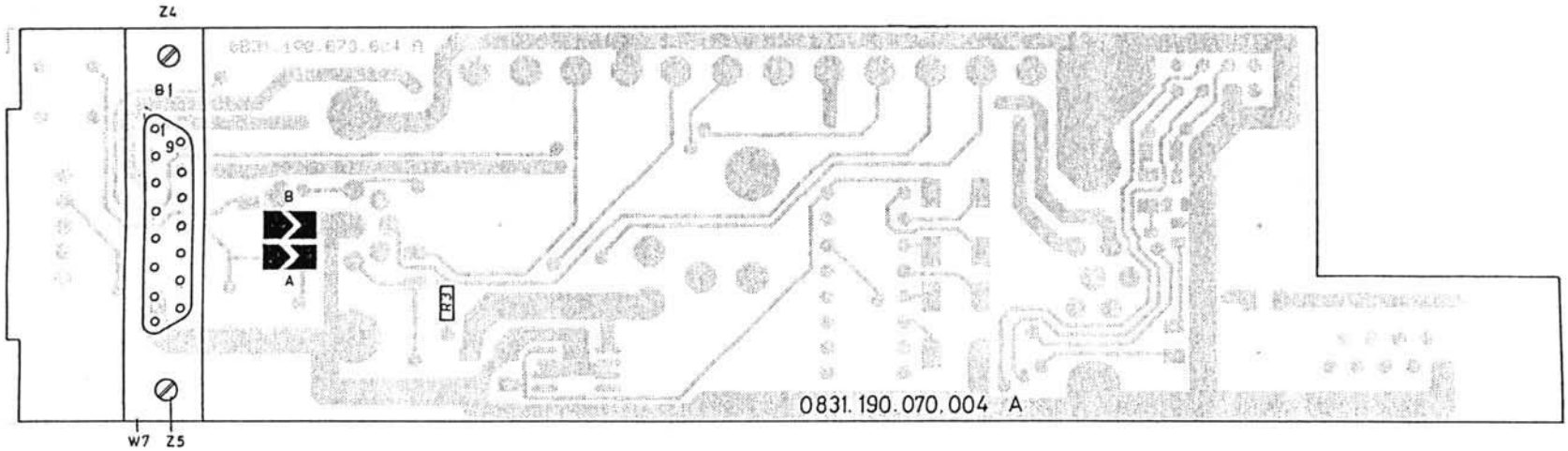
ascom
Ascom Radiocom AG

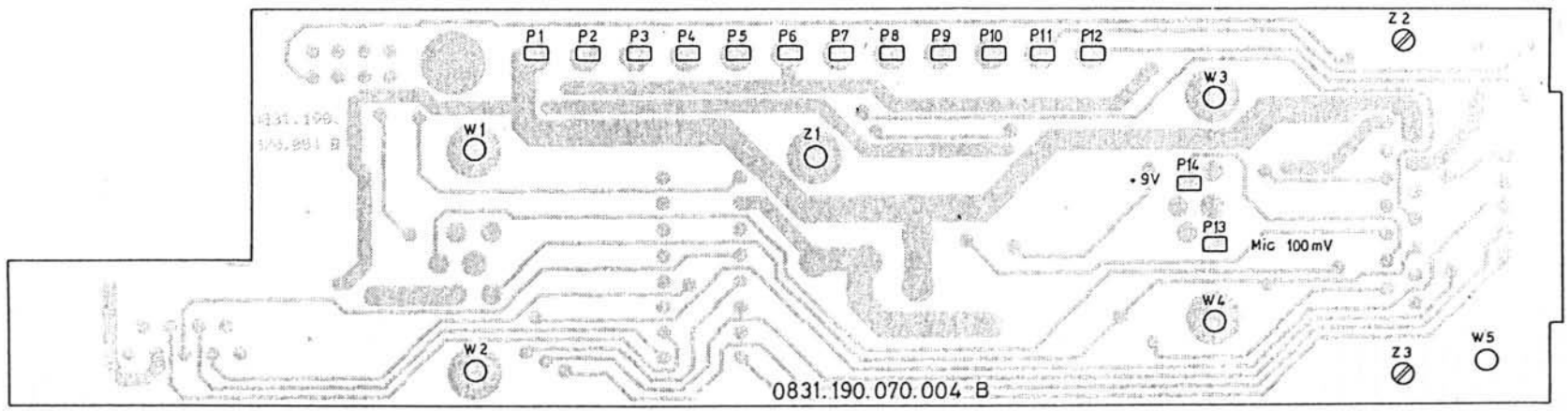
Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

UL - Art	Nr.
ZZ	954.920.490.001

POSITION	ARTIKELNUMMER	BESCHREIBUNG
01C001	0068533100	TAN.PERLE 10UF 35V 7X10MM
01C002	0067320102	ELKO STEHD. 1000UF 25V 13X25
01D001	0040624148S	SMD-DIO. LL4148 !
01D002	0040624148S	SMD-DIO. LL4148 !
01D003	0041950046	LED RECHTECKIG GE LD224Y KNI
01D004	0041950045	LED RECHTECKIG RT LD224R KNI
01D005	0041950045	LED RECHTECKIG RT LD224R KNI
01P001	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P002	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P003	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P004	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P005	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01P006	0014000040	ST.LOETOESE 1002M VERZ. VOGT
01R001	0050900681S	CHIP-WID.680 R 5% 0,125W 1206!
01R002	0050900471S	CHIP-WID.470 R 5% 0,125W 1206!
01R003	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
01R004	0050900822S	CHIP-WID.8,2 K 5% 0,125W 1206!
01R005	0050900822S	CHIP-WID.8,2 K 5% 0,125W 1206!
01R006	0050900203S	CHIP-WID.20 K 5% 0,125W 1206 !
01S001	0070034030	KIPPTASTER 1XT0T 7105-J2-V3QE
01V001	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
01V002	0046930858S	SMD-PNP-TR. BC 858C 3L VAL !
01W001	+0954090440014	ABSTANDSHALTER F. LED

ENDE





Gezeichnet	Gepr.	Ges.	UT550 Steckhalterung Berceau Plug-in holder	Ersatz für Ersetzt durch Blatt:
7.11.91 3003/Bo	26650	50238		

ascom
Ascom Radiocom AG

Geändert	Gepr.	Geändert	Gepr.	UL-Art	Nr.
/a		/d		ZZ	954.190.390.001
/b		/e			
/c		/f			

Adapter für abgesetzte Bedienung

Der Adapter für die abgesetzte Bedienung besteht aus 2 Interface-Schaltungen:

- Tx/Rx-Interface
- BG-Interface

Tx/Rx-Interface

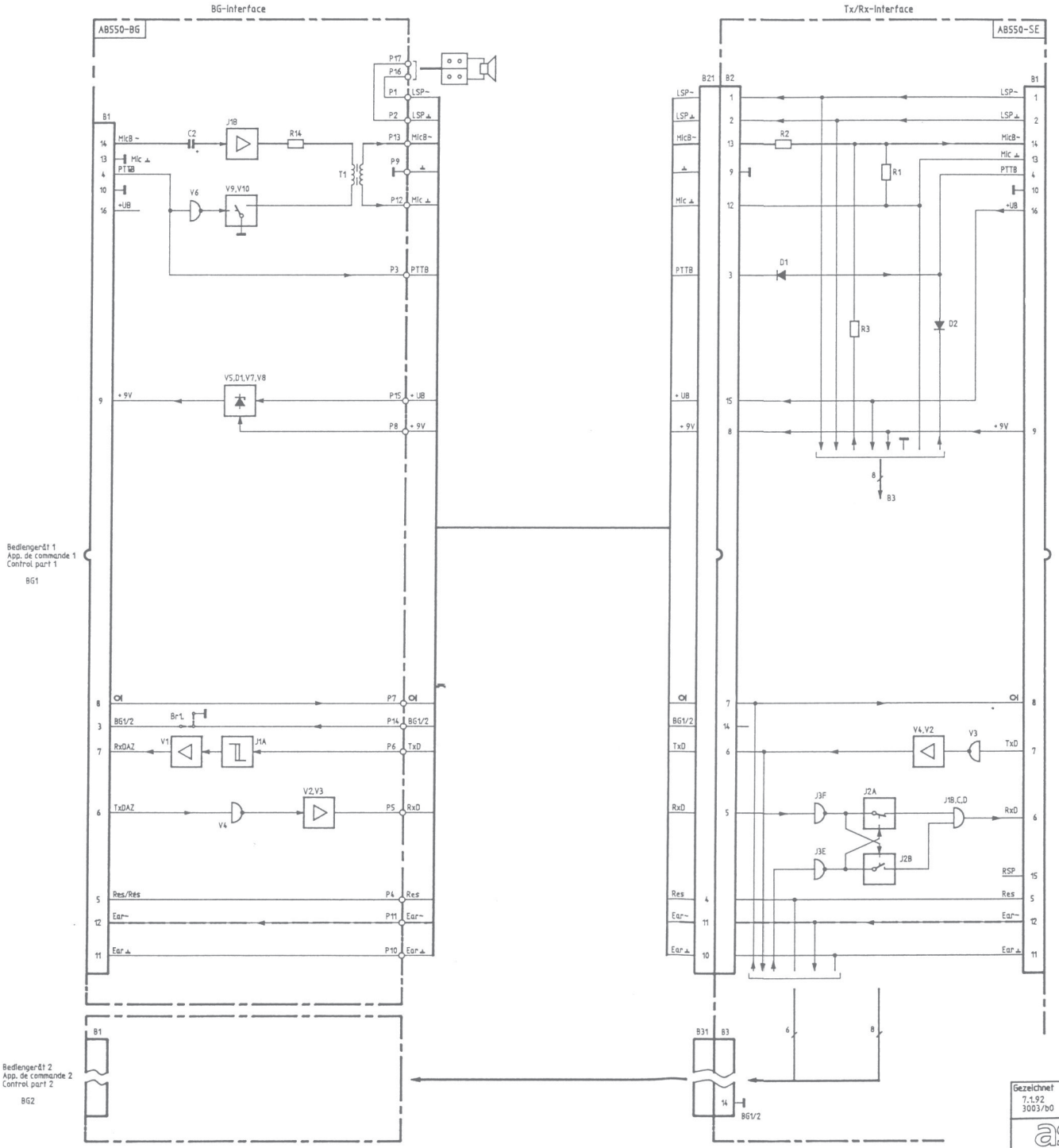
Das Tx/Rx-Interface wird anstelle vom BG auf dem Funkgerät montiert.

Es gibt zwei Ausführungen mit einem oder mit zwei Stecker für den Anschluss von einem oder 2 BG's. Die Schaltung enthält die Tx/Rx-, NF- und Speise-Verbindungen zwischen SE 550 und den angeschlossenen BG's.

Ausserdem enthält es eine Schaltung zur gegenseitigen Verriegelung zwischen den BG's.

BG-Interface

Das BG-Interface ist mit einem Mikrofonverstärker, einem Symmetrieübertrager und einem +9 V-Stabilisator ausgerüstet. Der Lautsprecher wird über Schraub-Verbinder angeschlossen.

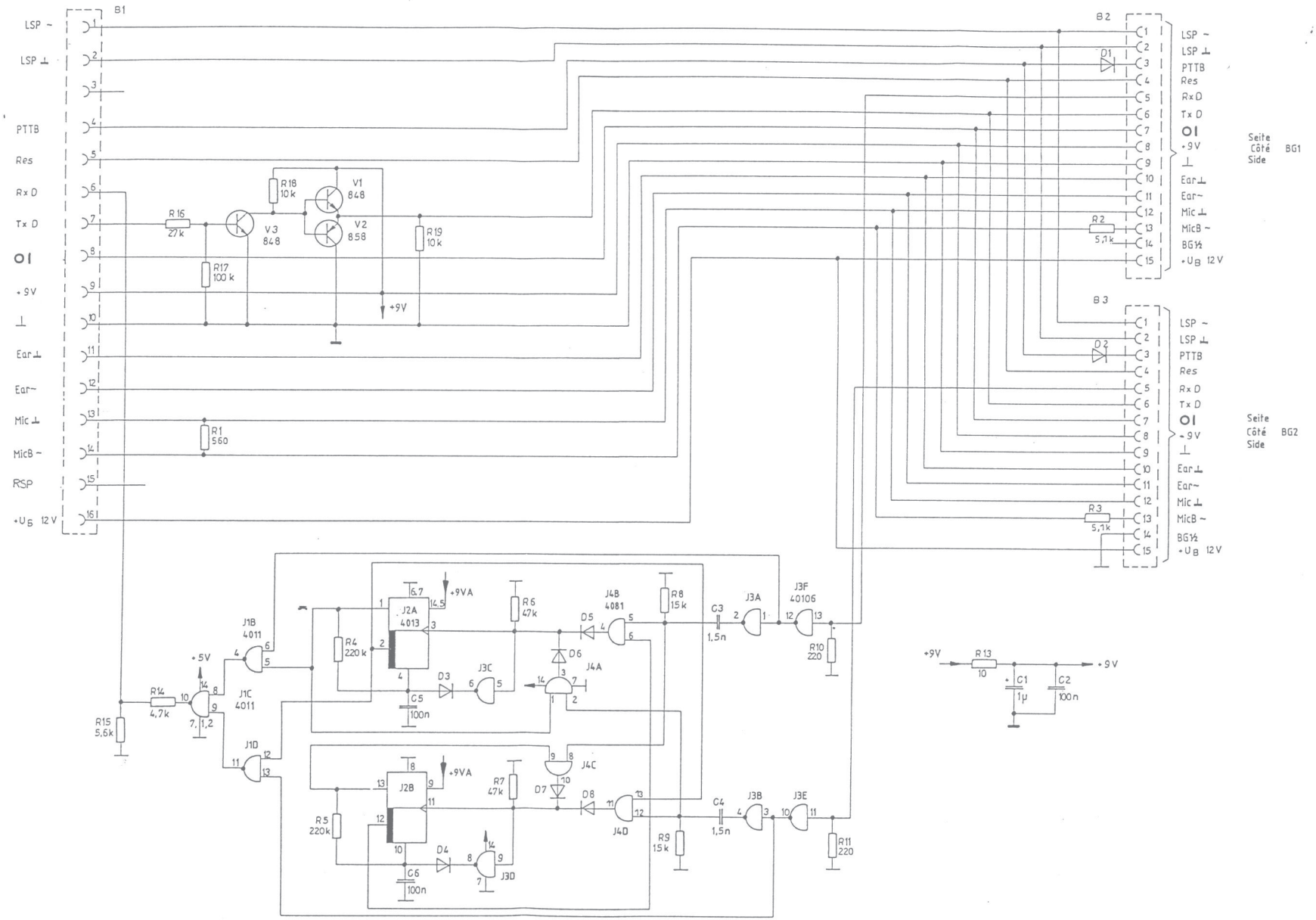


Gezeichnet	Gepr.	Ges.	SE550	Abgespeichert unter:
7.1.92 3003/b0	2665	So 2385	Abgesetzte Bedienung/Commande déportée/Remote control Interfaces A8550	550\SAS19567 (Scal. 85%)
				BL./f./sh.:

ascom
Ascom Radiocom AG

Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

UL - Art | Nr.
SB 119567



Gezeichnet	Gepr.	Ges.
10.1.1992 E.CH.	2665 AR	502385

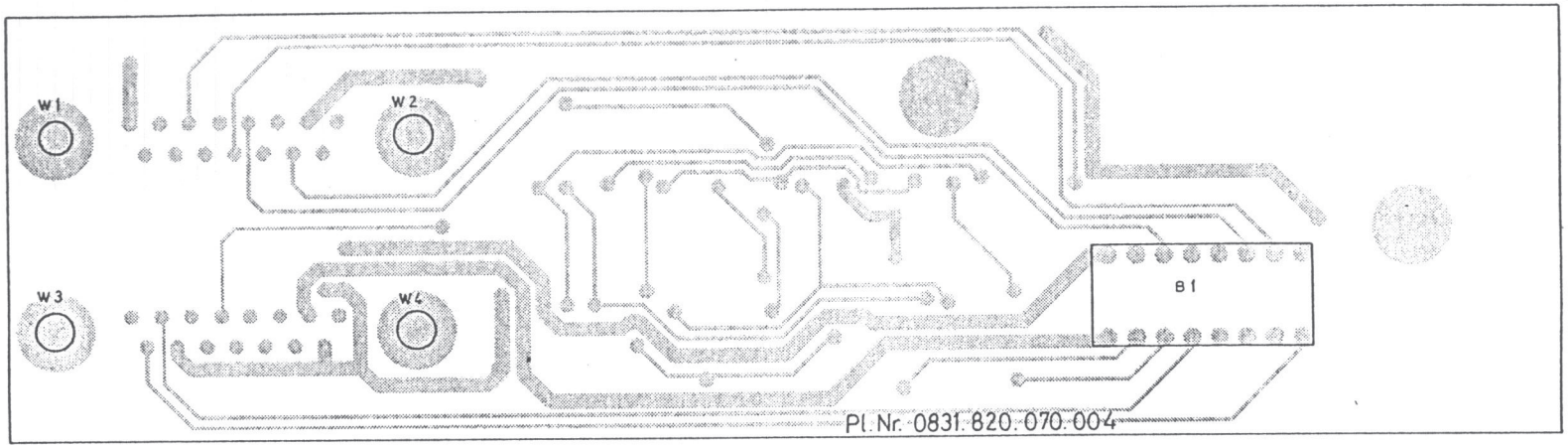
SE 550
Tx / Rx - Interface AB 550 - SE

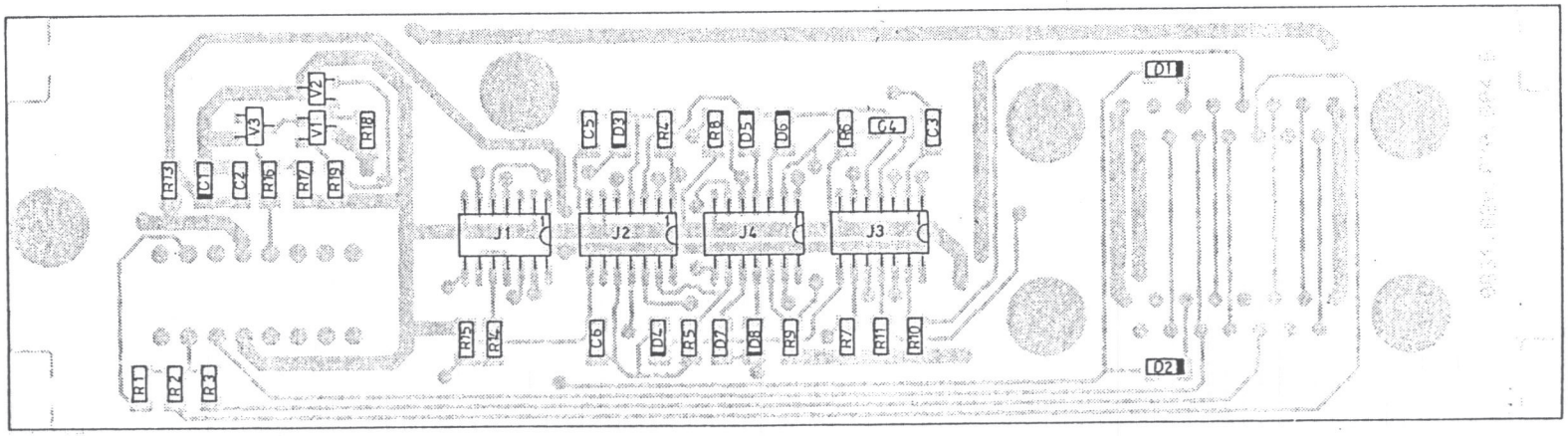
Abgespeichert unter:
Bl./f./sh.: 1 –

ascom
Ascom Radiocom AG

Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

UL - Art | Nr.
SZ 0831.820.310.001





Gezeichnet	Gepr.	Ges.	SE 550	Abgespeichert unter:
10.1.1992 E.CH.	2665	502385	Tx / Rx - Interface AB 550 - SE	Bl./f./sh.: 1-

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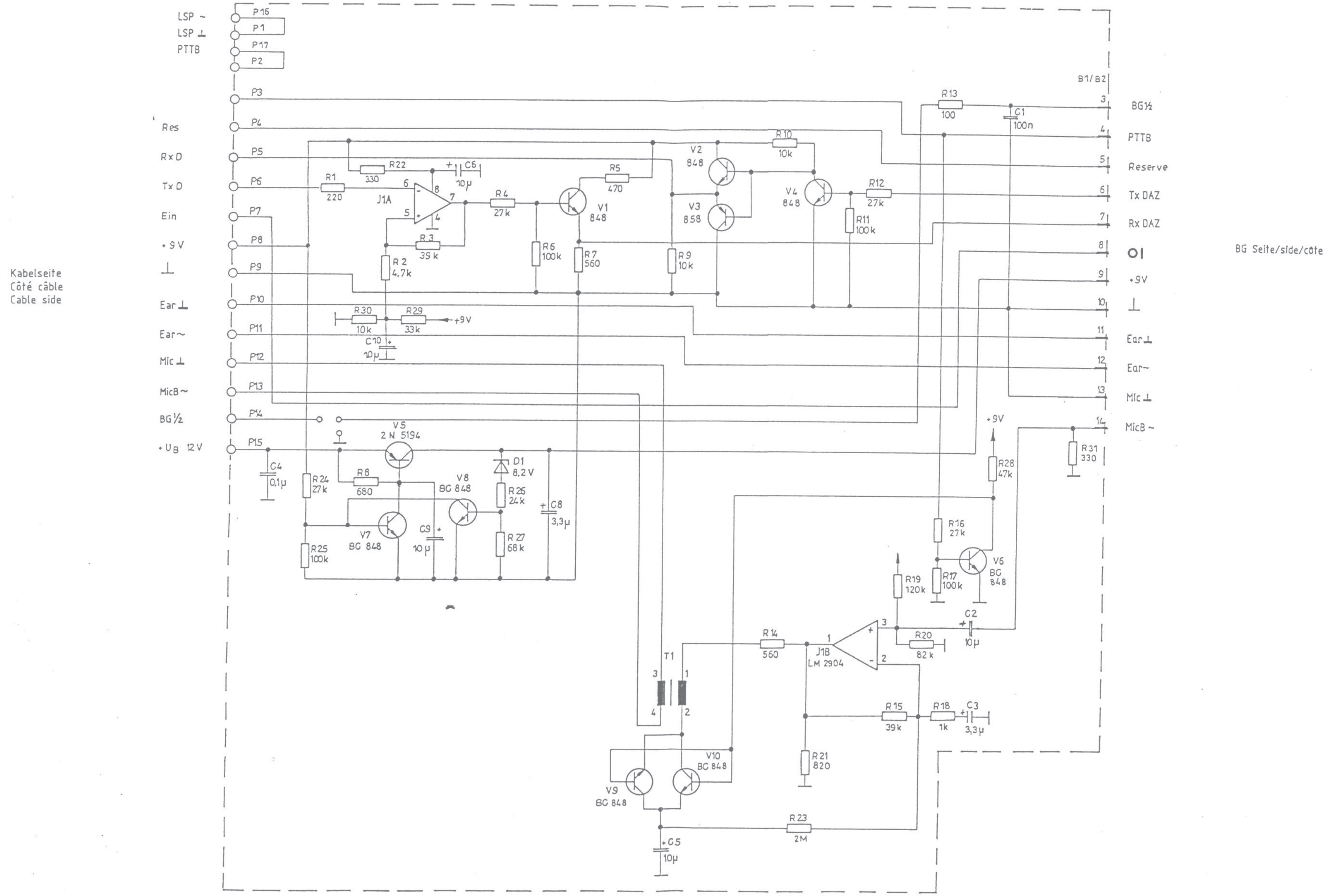
Geändert	Gepr.	Geändert	Gepr.	UL - Art	Nr.
/a		/d		ZZ	0831.820.390.001
/b		/e			
/c		/f			

POSITION	ARTIKELNUMMER	BESCHREIBUNG
B001	0072169030	BU-LEISTE 16-P. (2X8) RM7,62
C001	0068010105S	TAN.CHIP-C. 1UF 10V 10% GR.A!
C002	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
C003	0061341152S	KER.CHIP 1,5NF 50V NP0 1206 !
C004	0061341152S	KER.CHIP 1,5NF 50V NP0 1206 !
C005	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
C006	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
D001	0040624148S	SMD-DIO. LL4148 !
D002	0040624148S	SMD-DIO. LL4148 !
D003	0040624148S	SMD-DIO. LL4148 !
D004	0040624148S	SMD-DIO. LL4148 !
D005	0040624148S	SMD-DIO. LL4148 !
D006	0040624148S	SMD-DIO. LL4148 !
D007	0040624148S	SMD-DIO. LL4148 !
D008	0040624148S	SMD-DIO. LL4148 !
J001	0047440110S	SMD-IC HEF 4011BT VAL
J002	0047440130S	SMD-IC HEF 4013BT VAL
J003	0047440106S	SMD-IC HEF40106BT VAL
J004	0047440810S	SMD-IC HEF 4081BT VAL
R001	0050900561S	CHIP-WID.560 R 5% 0,125W 1206!
R002	0050900512S	CHIP-WID.5,1 K 5% 0,125W 1206!
R003	0050900512S	CHIP-WID.5,1 K 5% 0,125W 1206!
R004	0050900224S	CHIP-WID.220 K 5% 0,125W 1206!
R005	0050900224S	CHIP-WID.220 K 5% 0,125W 1206!
R006	0050900473S	CHIP-WID 47 K 5% 0,125W 1206 !
R007	0050900473S	CHIP-WID 47 K 5% 0,125W 1206 !
R008	0050900153S	CHIP-WID. 15 K 5% 0,125W 1206!
R009	0050900153S	CHIP-WID. 15 K 5% 0,125W 1206!
R010	0050900221S	CHIP-WID.220 R 5% 0,125W 1206!
R011	0050900221S	CHIP-WID.220 R 5% 0,125W 1206!
R013	0050900100S	CHIP-WID.10 R 5% 0,125W 1206 !
R014	0050900472S	CHIP-WID.4,7 K 5% 0,125W 1206!
R015	0050900562S	CHIP-WID.5,6 K 5% 0,125W 1206!
R016	0050900273S	CHIP-WID.27 K 5% 0,125W 1206 !
R017	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
R018	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
R019	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
V001	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V002	0046930858S	SMD-PNP-TR. BC 858C 3L VAL !
V003	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
ENDE		

UL-Art	Nr.
SZ	0831.850.310.001



Gezeichnet	Gepr.	Ges.	
10.1.1992 E.CH.	2665	So 2385	SE 550 BG – Interface AB550 – BG

Abgespeichert unter:

Bl./f./sh.: 1 –

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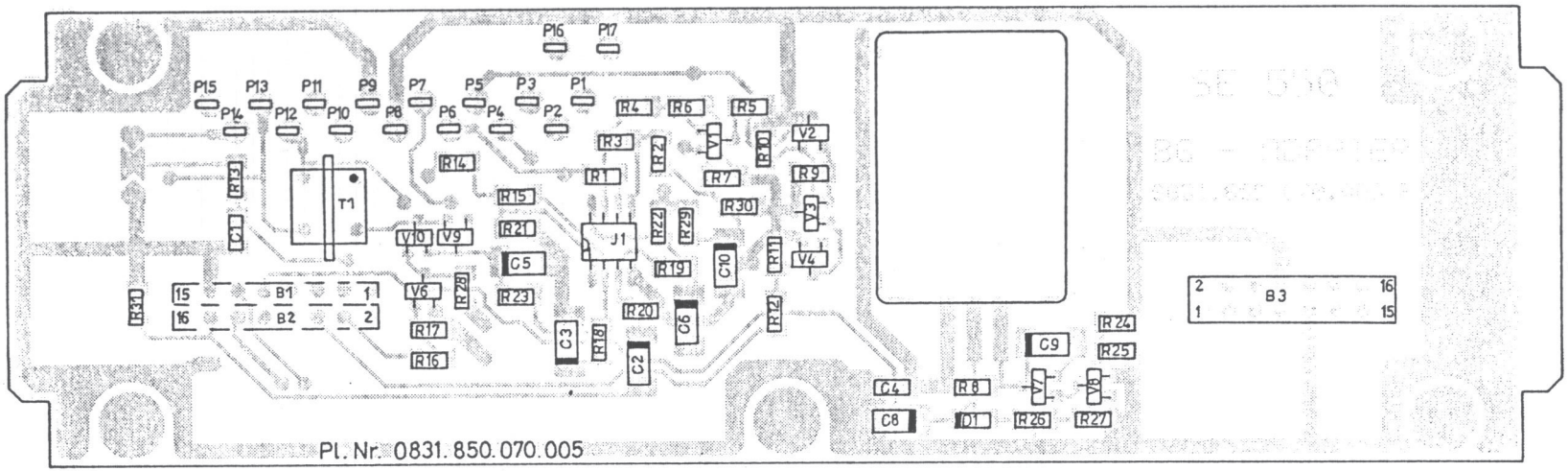
Geändert	Gepr.	Geändert	Gepr.
/a		/d	
/b		/e	
/c		/f	

UL-Art	Nr.
SZ	0831.850.310.001



B1,B2 von Lötseite bestückt
B1,B2 sont montées côté soudures
B1,B2 assembled on soldering side

Gezeichnet	Gepr.	Ges.	SE 550	Abgespeichert unter:
10.1.1992 E.CH.	2665	502385	BG - Interface AB550 - BG	Bl./f./sh.: 1 -

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Ascom Radiocom AG

Geändert	Gepr.	Geändert	Gepr.	UL - Art	Nr.
/a		/d		ZZ	0831.850.390.001
/b		/e			
/c		/f			

POSITION	ARTIKELNUMMER	BESCHREIBUNG
B001	0072084854	ST. 21,2MM 8-P. 4030-08CLG MO
B002	0072084854	ST. 21,2MM 8-P. 4030-08CLG MO
B003	0072169021	BU-LEISTE 16-P. (2X8) ODU
B004	0072159041	STECKER D-SUB 15-POLIG
C001	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
C002	0068015106S	TAN.CHIP-C. 10UF 15V 10% GR.F!
C003	0068035335S	TAN.CHIP-C.3,3UF 35V 10% GR.F!
C004	0061346104S	KER.CHIP 100NF 63V X7R 1206 !
C005	0068015106S	TAN.CHIP-C. 10UF 15V 10% GR.F!
C006	0068015106S	TAN.CHIP-C. 10UF 15V 10% GR.F!
C008	0068035335S	TAN.CHIP-C.3,3UF 35V 10% GR.F!
C009	0068025106S	TAN.CHIP-C. 10UF 25V 10% GR.G!
C010	0068015106S	TAN.CHIP-C. 10UF 15V 10% GR.F!
D001	0042202082S	SMD-Z-DIO. 8,2V BZV55/C8V2 !
J001	0048902904S	SMD-IC LM2904D 2-F.OP-VERST.
P001	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P002	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P003	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P004	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P005	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P006	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P007	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P008	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P009	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P010	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P011	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P012	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P013	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P014	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P015	0014000040.	ST.LOETOESE 1002M VERZ. VOGT
P016	0014000040	ST.LOETOESE 1002M VERZ. VOGT
P017	0014000040	ST.LOETOESE 1002M VERZ. VOGT
R001	0050900221S	CHIP-WID.220 R 5% 0,125W 1206!
R002	0050900472S	CHIP-WID.4,7 K 5% 0,125W 1206!
R003	0050900393S	CHIP-WID.39 K 5% 0,125W 1206 !
R004	0050900273S	CHIP-WID.27 K 5% 0,125W 1206 !
R005	0050900471S	CHIP-WID.470 R 5% 0,125W 1206!
R006	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
R007	0050900561S	CHIP-WID.560 R 5% 0,125W 1206!
R008	0050900681S	CHIP-WID.680 R 5% 0,125W 1206!
R009	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
R010	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
R011	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
R012	0050900273S	CHIP-WID.27 K 5% 0,125W 1206 !
R013	0050900101S	CHIP-WID.100R 5 % 0,125W 1206!
R014	0050900561S	CHIP-WID.560 R 5% 0,125W 1206!
R015	0050900393S	CHIP-WID.39 K 5% 0,125W 1206 !
R016	0050900273S	CHIP-WID.27 K 5% 0,125W 1206 !
R017	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !

POSITION	ARTIKELNUMMER	BESCHREIBUNG
R018	0050900102S	CHIP-WID.1 K 5% 0,125W 1206 !
R019	0050900124S	CHIP-WID.120 K 5% 0,125W 1206!
R020	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
R021	0050900821S	CHIP-WID.820 R 5% 0,125W 1206!
R022	0050900331S	CHIP-WID.330 R 5% 0,125W 1206!
R023	0050900205S	CHIP-WID. 2 M 5% 0,125 W 1206!
R024	0050900273S	CHIP-WID.27 K 5% 0,125W 1206 !
R025	0050900104S	CHIP-WID.100K 5% 0,125W 1206 !
R026	0050900243S	CHIP-WID. 24 K 5% 0,125W 1206!
R027	0050900683S	CHIP-WID.68 K 5% 0,125W 1206 !
R028	0050900473S	CHIP-WID 47 K 5% 0,125W 1206 !
R029	0050900333S	CHIP-WID.33 K 5% 0,125W 1206 !
R030	0050900103S	CHIP-WID.10 K 5 % 0,125W 1206!
R031	0050900331S	CHIP-WID.330 R 5% 0,125W 1206!
T001	0031307410	UEBERTRAG. ST 1149 BV7410 HAU
V001	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V002	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V003	0046930858S	SMD-PNP-TR. BC 858C 3L VAL !
V004	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V006	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V007	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V008	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V009	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
V010	0046930848S	SMD-NPN-TR. BC 848C 1L VAL !
ENDE		