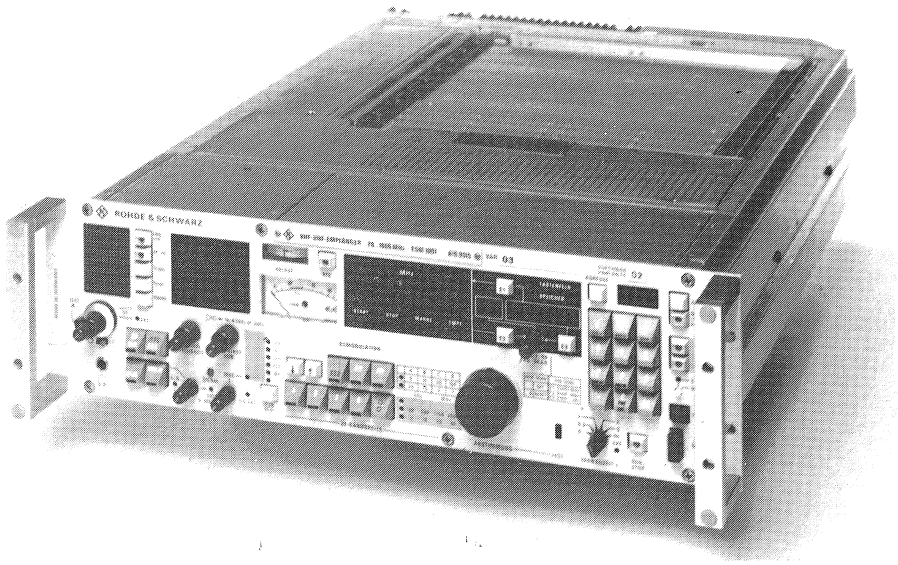
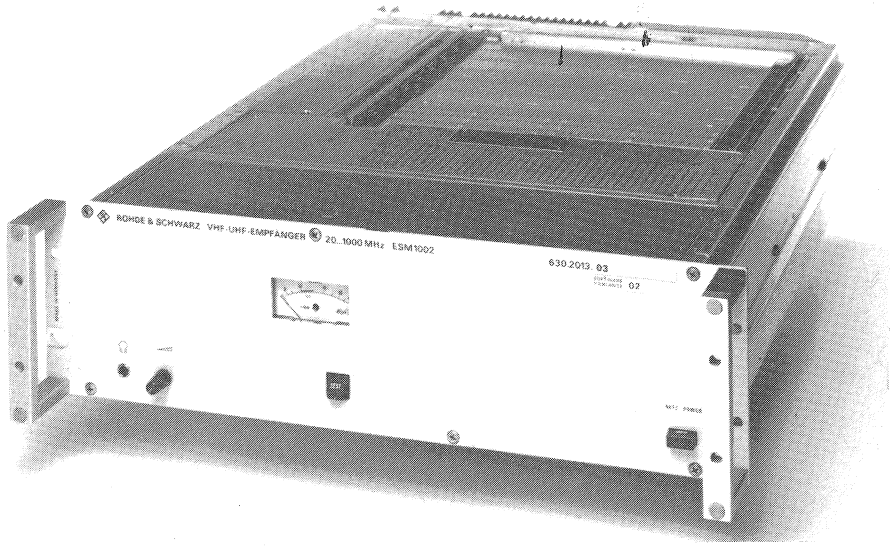
ESM 1001



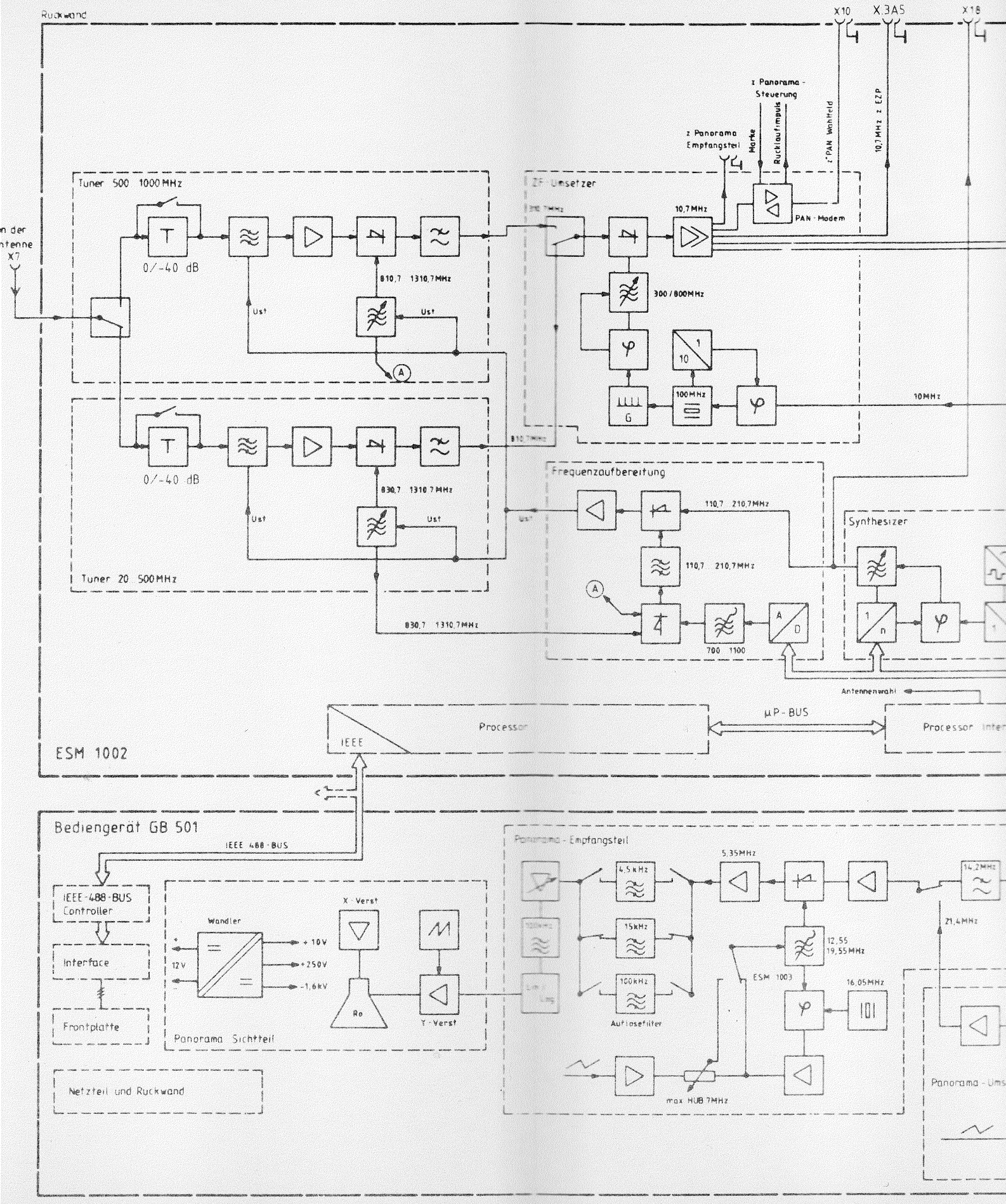


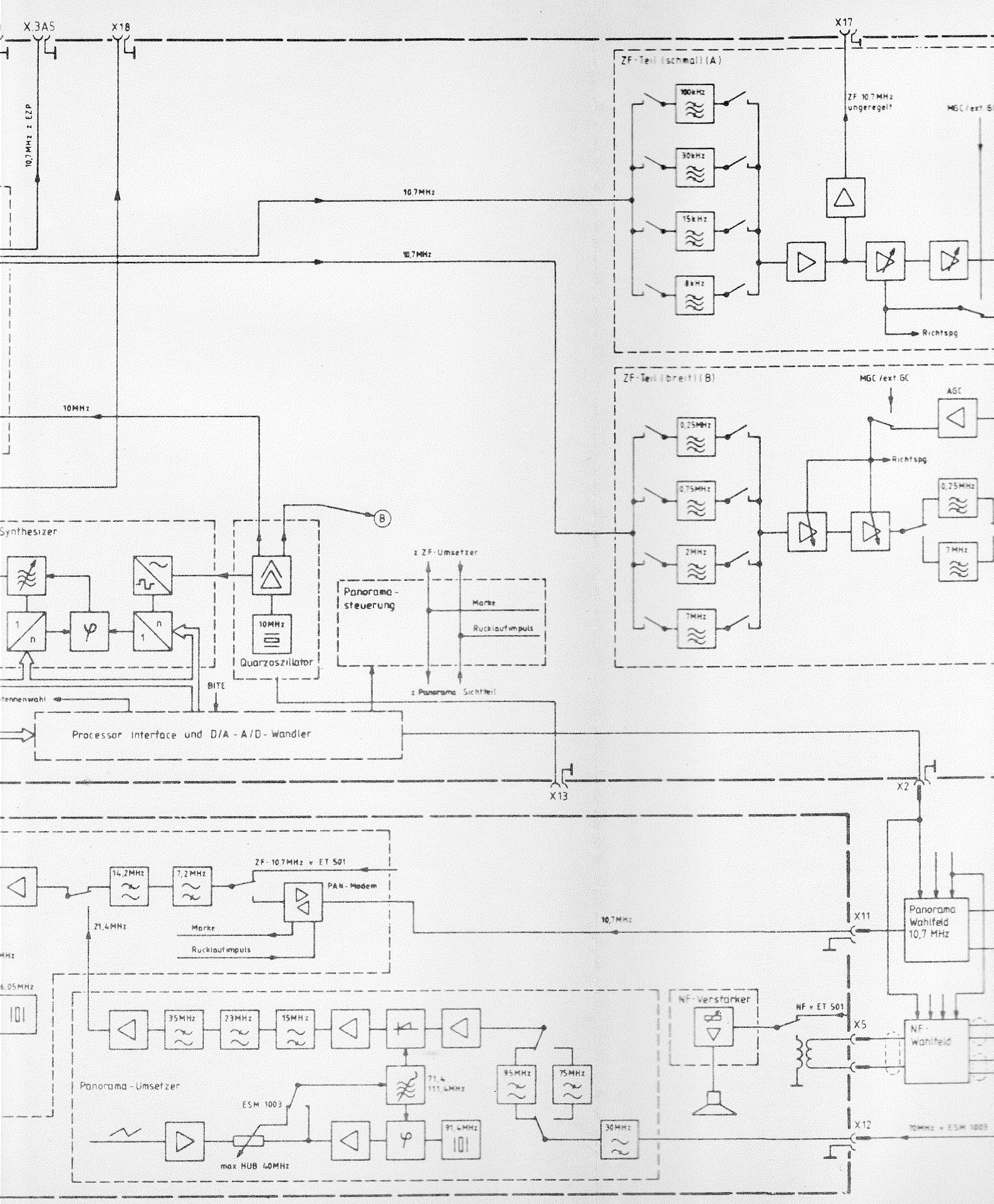
ESM 1002

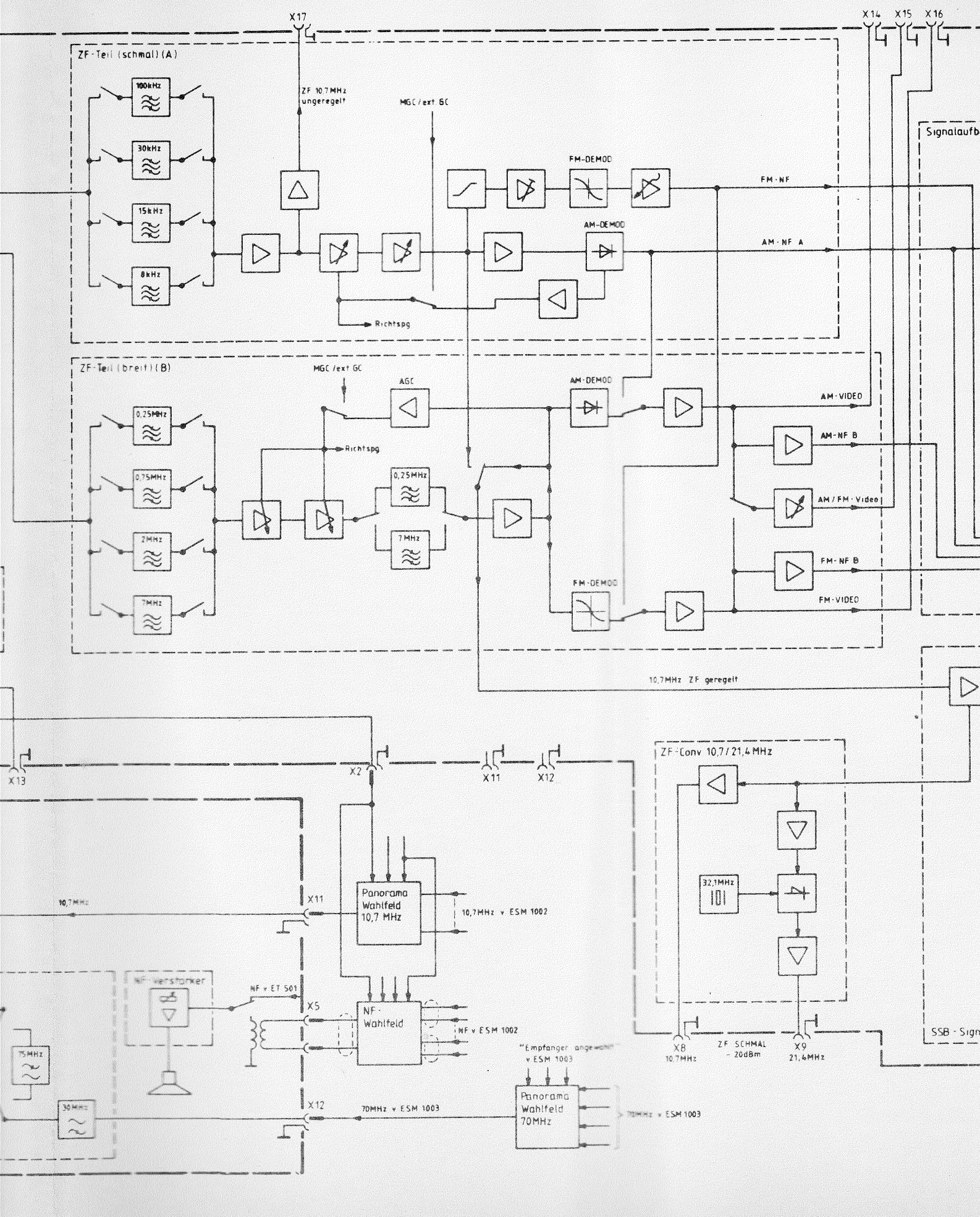
GB 501



Bild 1-1 Empfangsgerätesatz der ESM-1000-Familie
Fig. 1-1 Receivers of the ESM 1000 family


Rückwand
X10
X3A5
X18
z Panorama - Steuerung
z Panorama Empfangsteil
Marke
Rücklaufimpuls
z PAN Wohlfeld
10,7 MHz z EZP
Tuner 500 1000 MHz
ZF-Umsetzer
0/-40 dB
810,7 1310,7 MHz
Ust
10,7 MHz
PAN - Modem
300 / 800 MHz
100 MHz
10 MHz
Tuner 20 500 MHz
Frequenzaufbereitung
110,7 210,7 MHz
700 1100
Synthesizer
Antennenwahl
Processor
IEEE
µP-BUS
ESM 1002
Bediengerät GB 501
IEEE 488-BUS
IEEE-488-BUS Controller
Interface
Frontplatte
Wandler
12 V
+ 10 V
+ 250 V
-1,6 kV
X-Verst
Y-Verst
Ro
Panorama Sichtteil
Netzteil und Rückwand
Panorama-Empfangsteil
4,5 kHz
15 kHz
100 kHz
Auflösefilter
5,35 MHz
12,55
19,55 MHz
ESM 1003
16,05 MHz
21,4 MHz
max HUB 7 MHz
Panorama-Ums


X3A5
X18
X17
10,7MHz z EZP
10,7MHz
10,7MHz
10MHz
ZF-Teil (schmal) (A)
100kHz
30kHz
15kHz
8kHz
ZF 10,7MHz ungeregelt
MGC/ext GC
Richtspg
ZF-Teil (breit) (B)
MGC/ext GC
AGC
0,25MHz
0,75MHz
2MHz
7MHz
Richtspg
0,25MHz
7MHz
B
Synthesizer
1/n
n/1
10MHz
Quarzoszillator
z ZF-Umsetzer
Panorama-steuerung
Marke
Rücklaufimpuls
z Panorama Sichtteil
BITE
Processor Interface und D/A - A/D - Wandler
X13
X2
14,2MHz
7,2MHz
ZF-10,7MHz v ET 501
PAN-Modem
21,4MHz
Marke
Rücklaufimpuls
10,7MHz
X11
Panorama Wahlfeld 10,7 MHz
35MHz
23MHz
15MHz
Panorama-Umsetzer
ESM 1003
max HUB 40MHz
71,4 111,4MHz
91,4MHz
95MHz
75MHz
30MHz
NF-Verstärker
NF v ET 501
X5
NF-Wahlfeld
X12


X17
X14
X15
X16
ZF-Teil (schmal) (A)
100kHz
30kHz
15kHz
8kHz
ZF 10,7MHz ungeregelt
MGC/ext GC
FM-DEMOD
FM-NF
AM-DEMOD
AM-NF A
Richtspg
ZF-Teil (breit) (B)
MGC/ext GC
AGC
AM-DEMOD
AM-VIDEO
0,25MHz
0,75MHz
2MHz
7MHz
Richtspg
0,25MHz
7MHz
AM-NF B
AM/FM-Video
FM-NF B
FM-DEMOD
FM-VIDEO
10,7MHz ZF geregelt
Signalaufb
X13
X2
X11
X12
ZF-Conv 10,7/21,4MHz
32,1MHz
10,7MHz
X11
Panorama Wahlfeld 10,7 MHz
10,7MHz v ESM 1002
NF-Verstärker
NF v ET 501
X5
NF-Wahlfeld
NF v ESM 1002
"Empfänger angewählt" v ESM 1003
Panorama Wahlfeld 70MHz
70MHz v ESM 1003
X12
70MHz v ESM 1003
75MHz
30MHz
X8
10,7MHz
ZF SCHMAL -20dBm
X9
21,4MHz
SSB-Sign

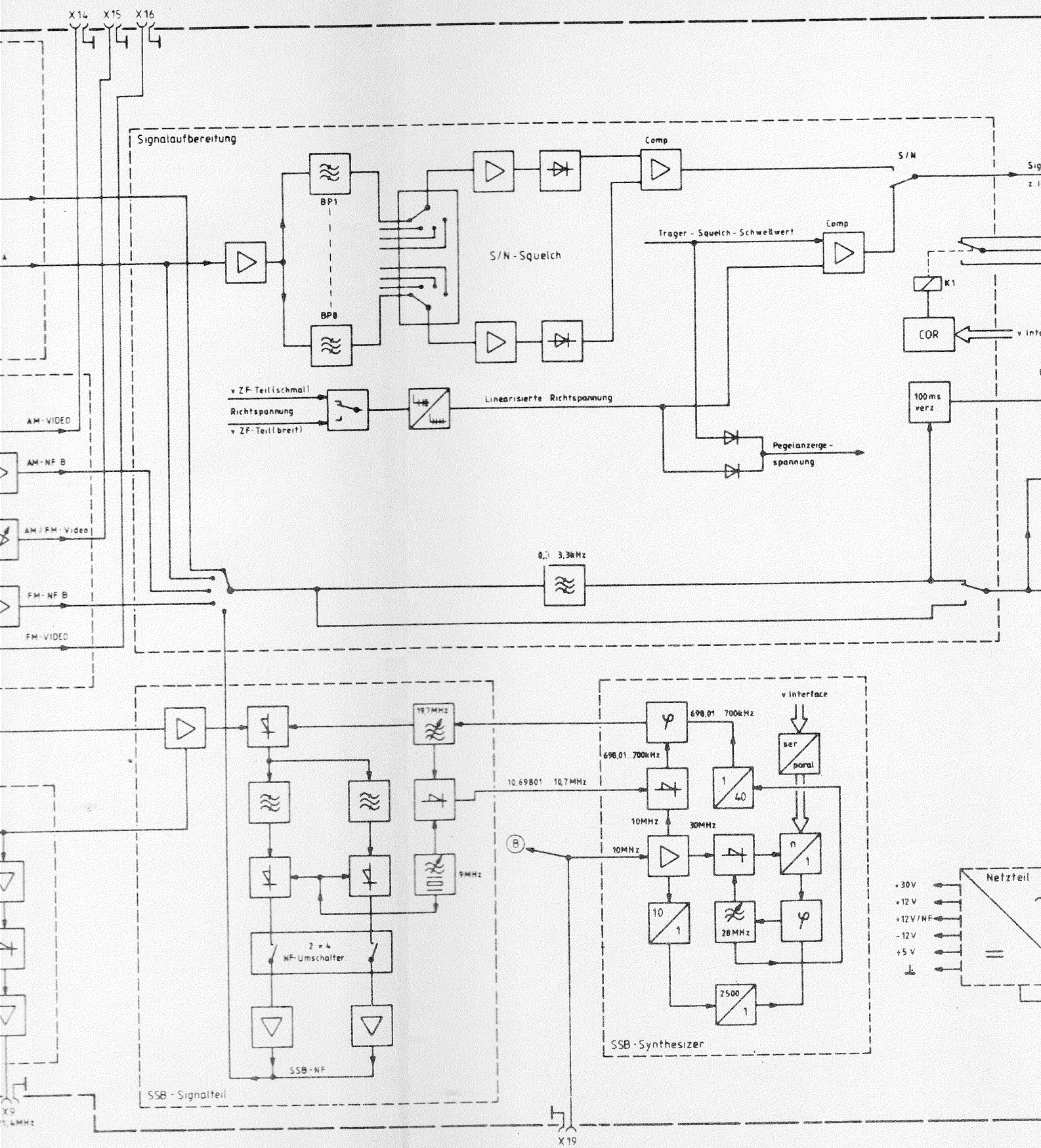


Bild 1-2 Funktionsst
VHF-UHF-EMP
BEDIENGERÄT

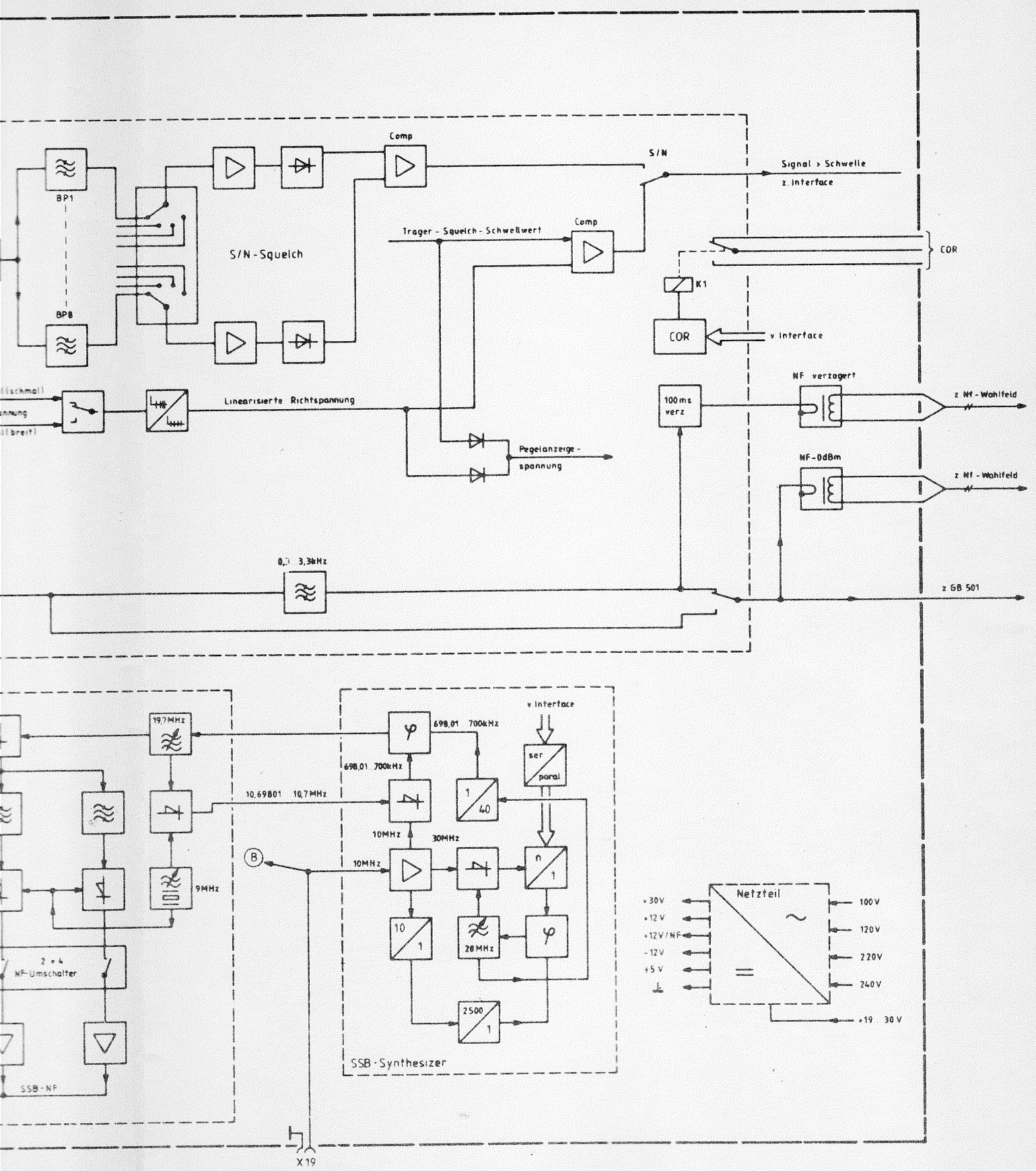
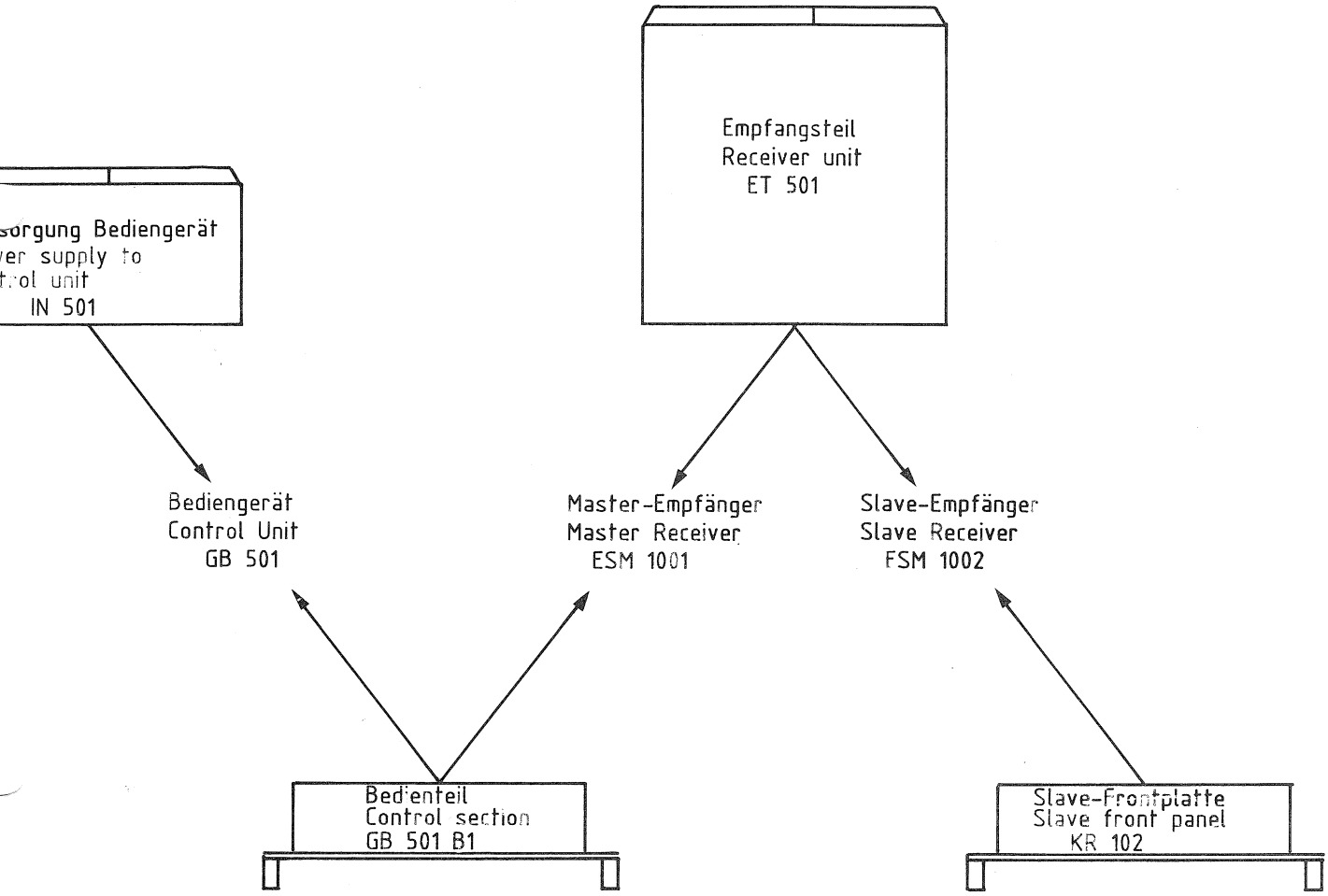


Bild 1-2 Funktionsstromlauf
VHF-UHF-EMPFÄNGER ESM 1002 und
BEDIENGERÄT GB 501


Empfangsteil
Receiver unit
ET 501
sorgung Bediengerät
ver supply to
t:ol unit
IN 501
Bediengerät
Control Unit
GB 501
Master-Empfänger
Master Receiver
ESM 1001
Slave-Empfänger
Slave Receiver
FSM 1002
Bedienteil
Control section
GB 501 B1
Slave-Frontplatte
Slave front panel
KR 102

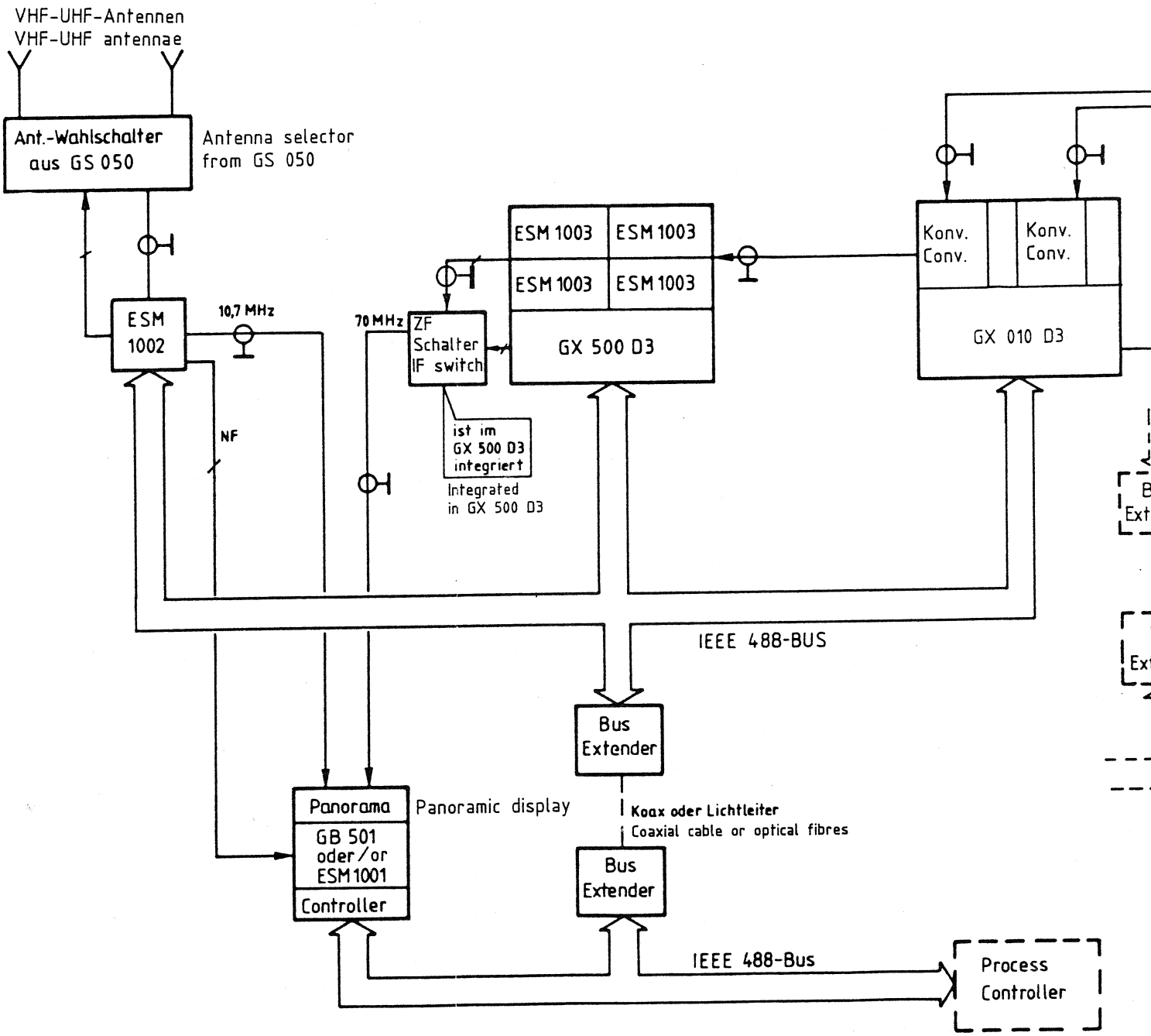


Bild 1-4 IEEE-488-Bus-System mit Geräten d
ESM-1000-Familie

Fig.1-4 IEC/IEEE-bus system with receivers
of ESM 1000 family

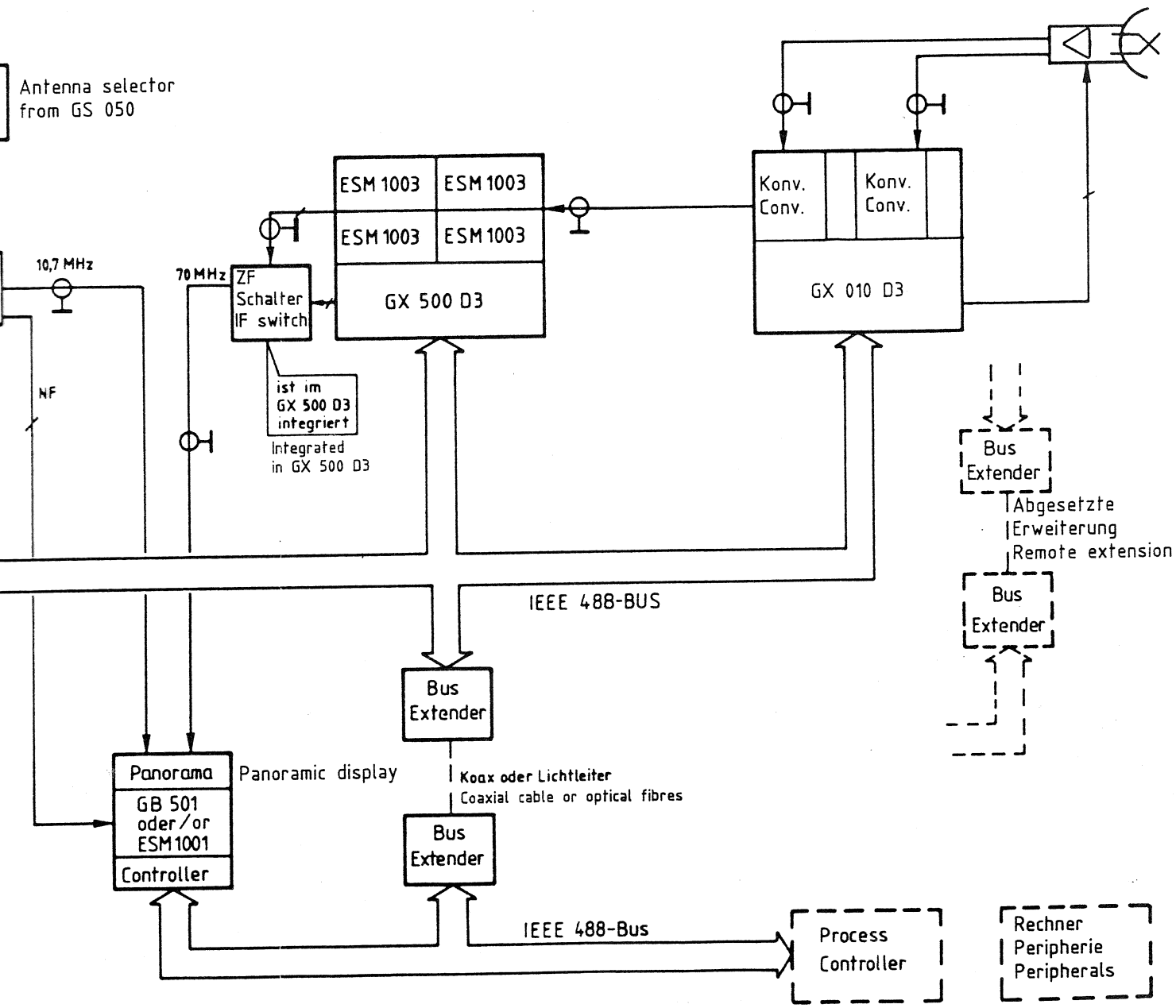


Bild 1-4 IEEE-488-Bus-System mit Geräten der ESM-1000-Familie

Fig.1-4 IEC/IEEE-bus system with receivers of ESM 1000 family

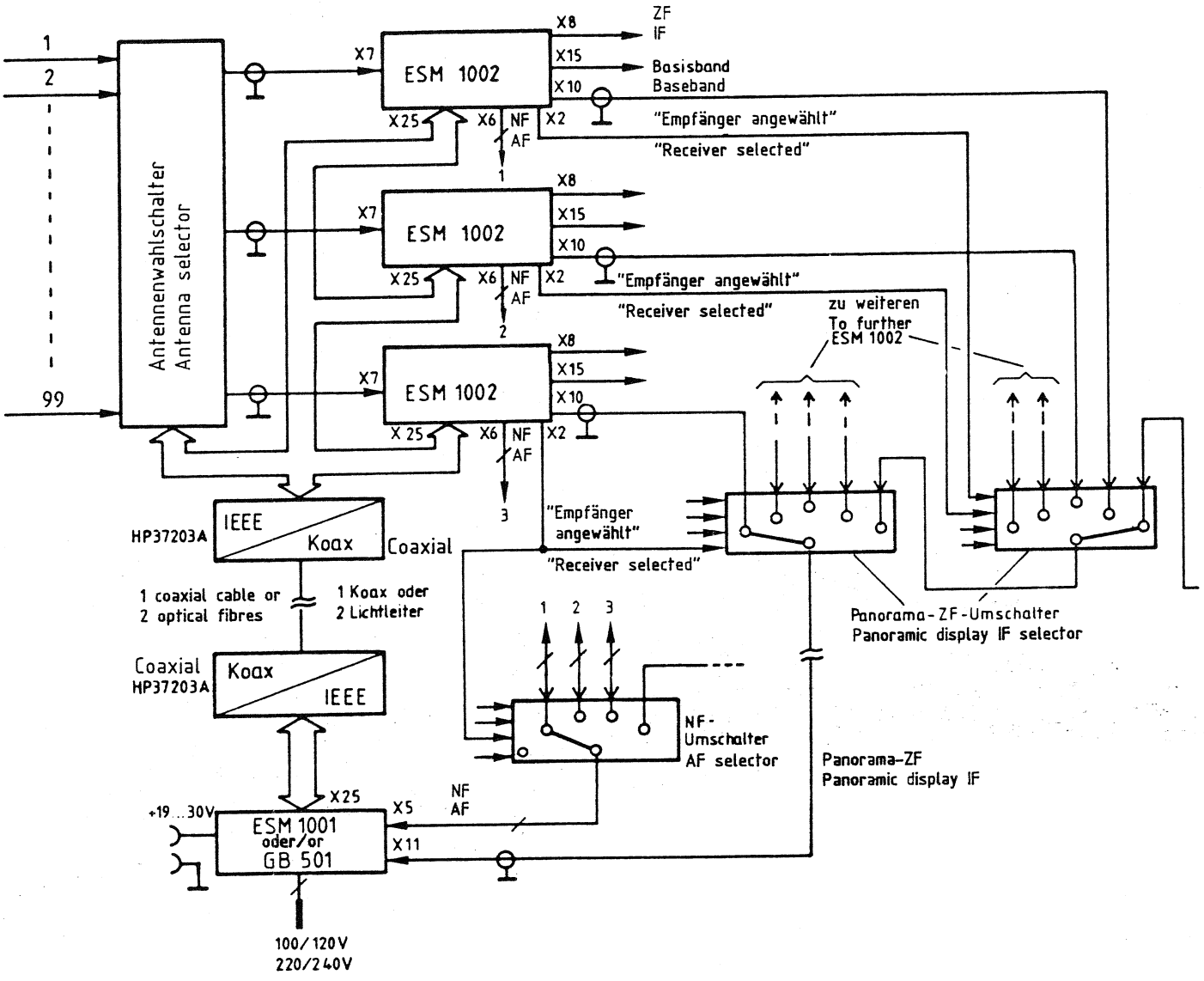


Bild 1-3 Master-Slave-Betrieb

Fig. 1-3 Master/slave operation

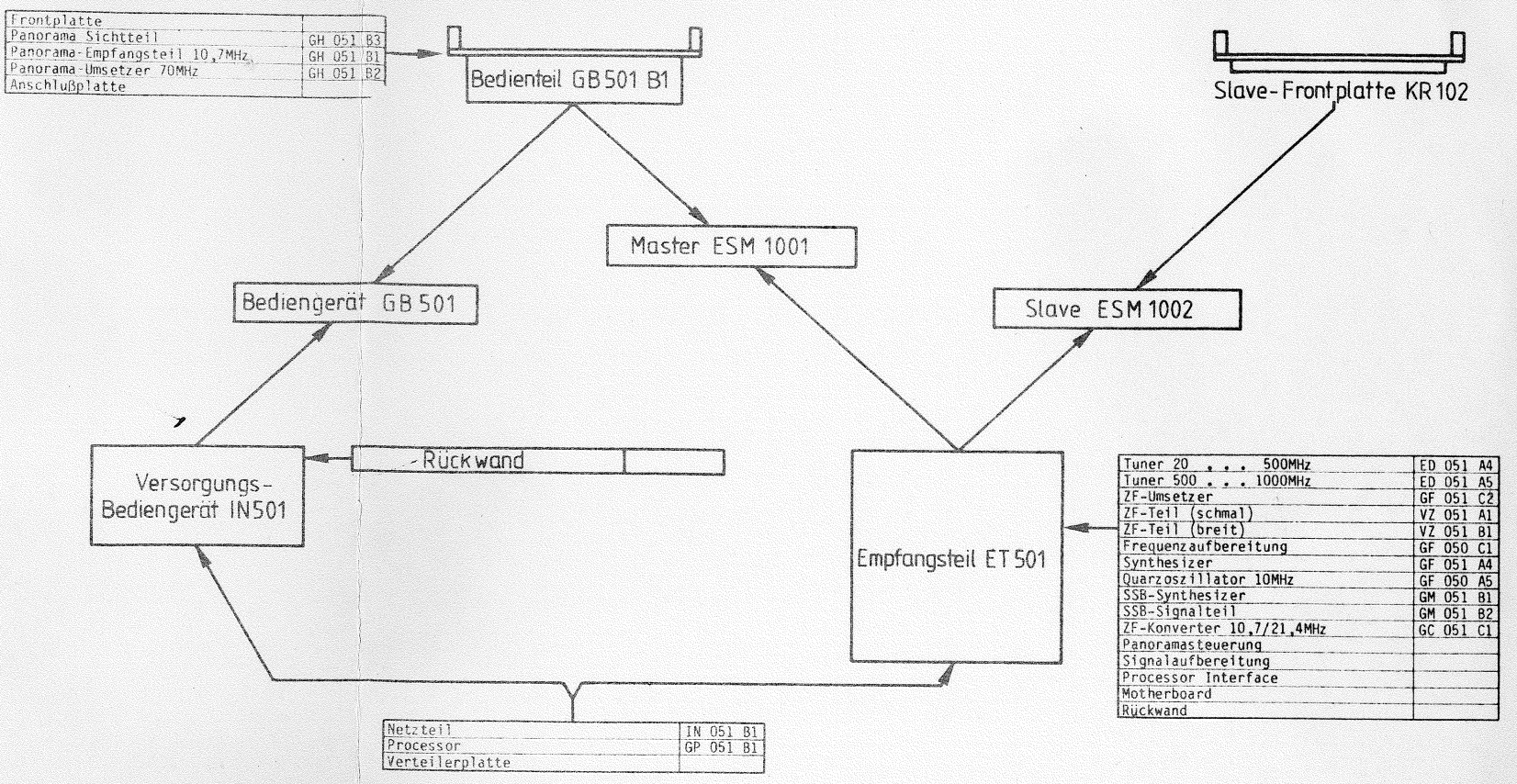
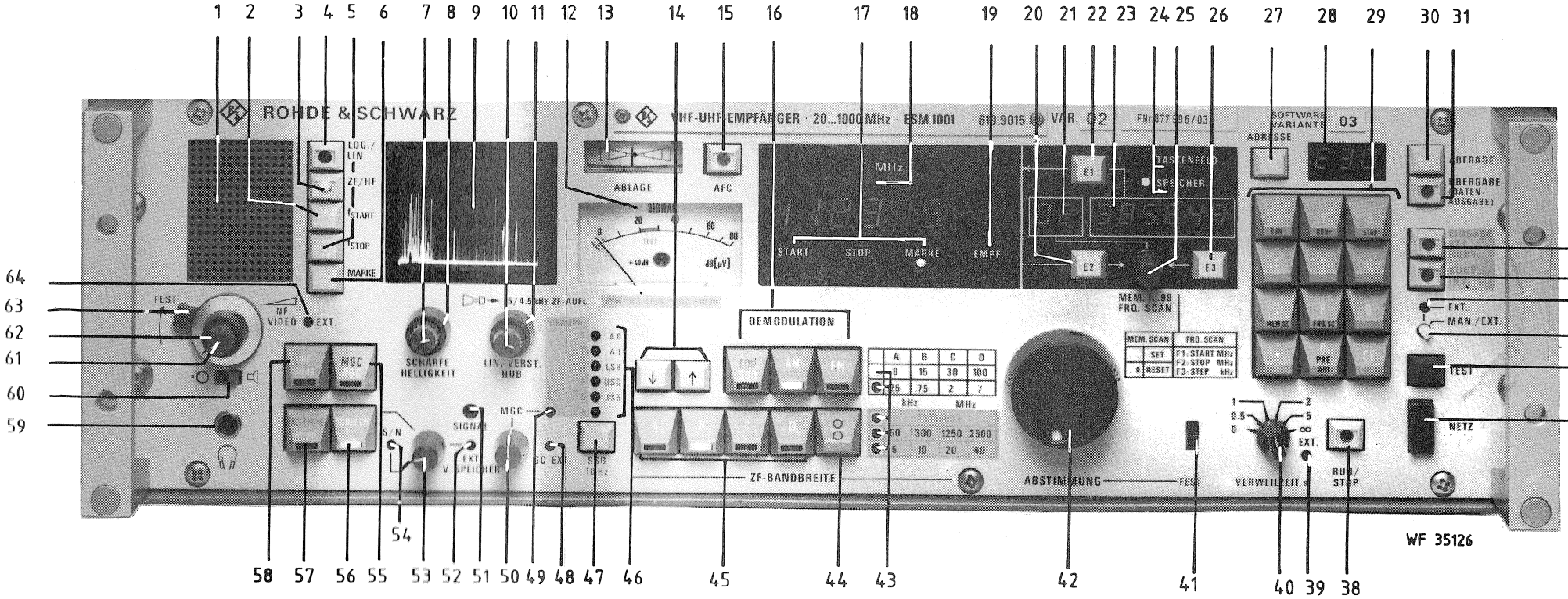
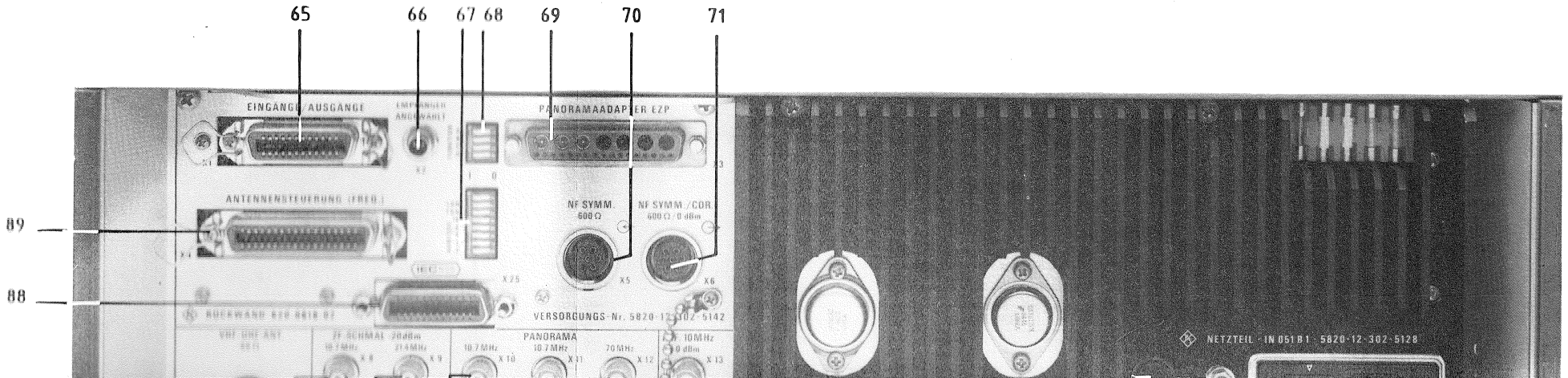


Bild 5-1 Aufbau der ESM-1000-Familie (ohne ESM 1003)
Fig. 5-1 Configuration of the ESM family (without ESM 1003)


ROHDE & SCHWARZ
VHF-UHF-EMPFÄNGER · 20...1000 MHz · ESM 1001
LOG./LIN.
ZF/HF
START
STOP
MARKE
ABLAGE
AFC
SIGNAL
MHz
START
STOP
MARKE
EMPF
E1
E2
E3
TASTENFELD
SPEICHER
ADRESSE
SOFTWARE VARIANTE
03
ABFRAGE
ÜBERGABE (DATEN AUSGABE)
FEST
NF VIDEO
EXT.
MGC
SCHÄRFE HELLIGKEIT
LIN.-VERST. HUB
DEMODULATION
MEM. 1...99 FRQ. SCAN
MEM. SCAN
FRQ. SCAN
SET
RESET
F1: START MHz
F2: STOP MHz
F3: STEP kHz
EXT.
MAN./EXT.
TEST
NETZ
S/N
SIGNAL
EXT. SPEICHER
MGC
GC-EXT
SSB
ZF-BANDBREITE
ABSTIMMUNG
FEST
VERWEILZEIT
EXT.
RUN/STOP
WF 35126


EINGÄNGE/AUSGÄNGE
PANORAMAADAPTER EZP
ANTENNENSTEUERUNG (FREQ.)
NF SYMM. 600 Ω
NF SYMM./COR 600 Ω / 0 dBm
VERSORGUNGS-Nr. 5820-12-302-5142
PANORAMA
NETZTEIL · IN 051 B 1 · 5820-12-302-5128

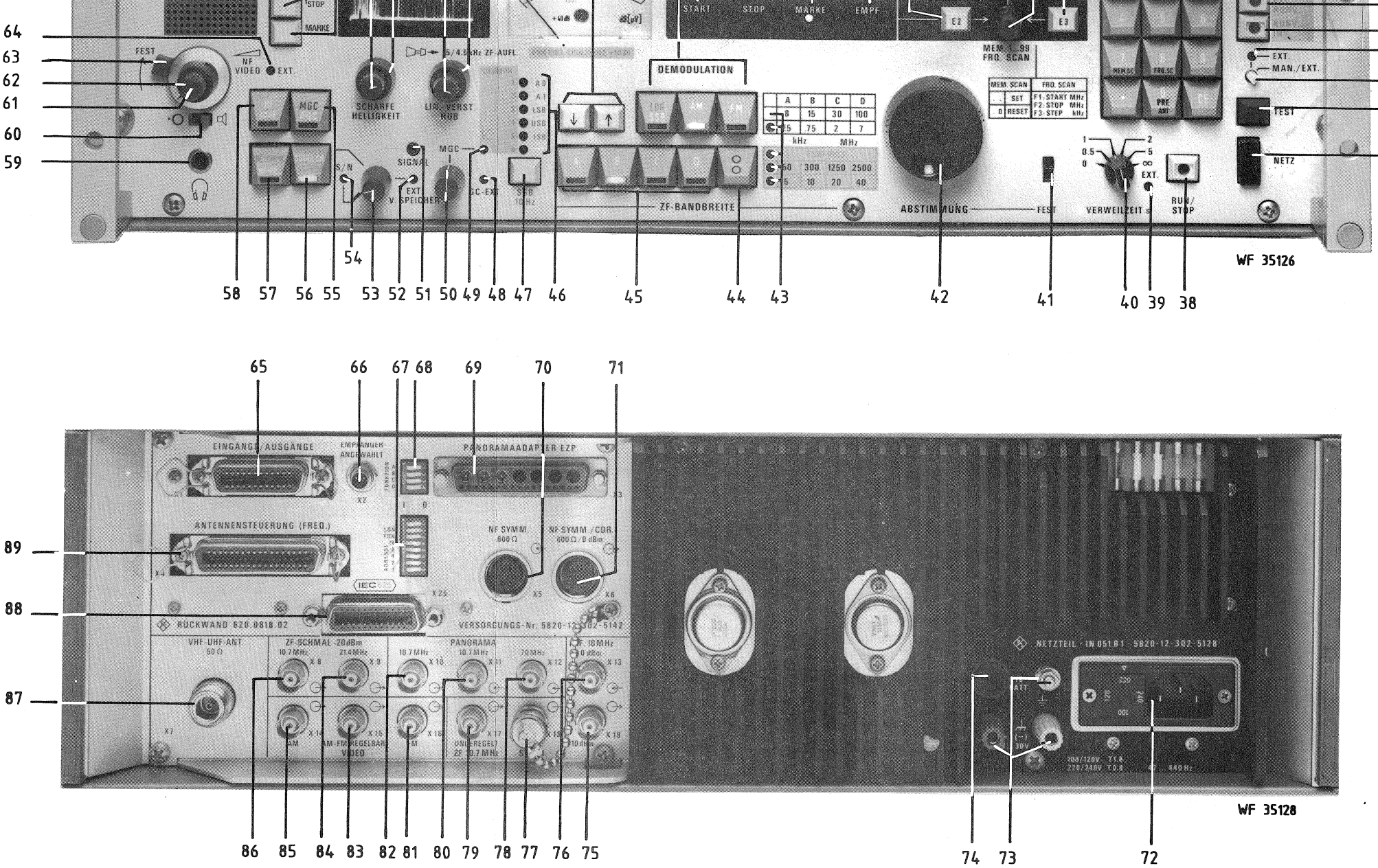


Bild 2-1 Bedienbild
Fig. 2-1 Operating controls