

INSTRUKTIONSBOG FOR SAILOR T1130

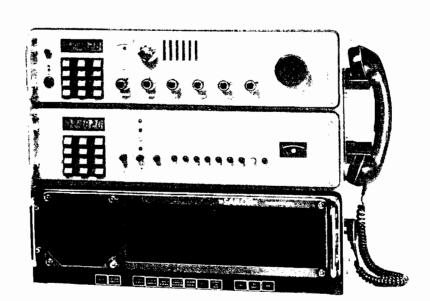
INSTRUCTION BOOK FOR SAILOR T1130



A/S S. P. RADIO · AALBORG · DENMARK



S.P. RADIO A/S - PORSVEJ 2 - 9200 AALBORG SV. - DENMARK - PHONE (08) 18 09 99 - INT. +45 8 18 09 99 - TELEGRAMS: ESPERA - TELEX 69 789



INSTRUCTION BOOK FOR TRANSMITTER T1130

Valid from serial No. 261639

GENERAL DESCRIPTION

SAILOR T1130 is a 500 Watt PEP SSB transmitter.

SAILOR T1130 has 50 ohm output impedance.

SAILOR T1130 has continuously frequency covering from 1.6 MHz to 28 MHz.

SAILOR T1130 is constructed to be used together with AERIAL COUPLER AT1500.

SAILOR T1130 is automatically tuning the AT1500.

SAILOR T1130 has built-in power supply.

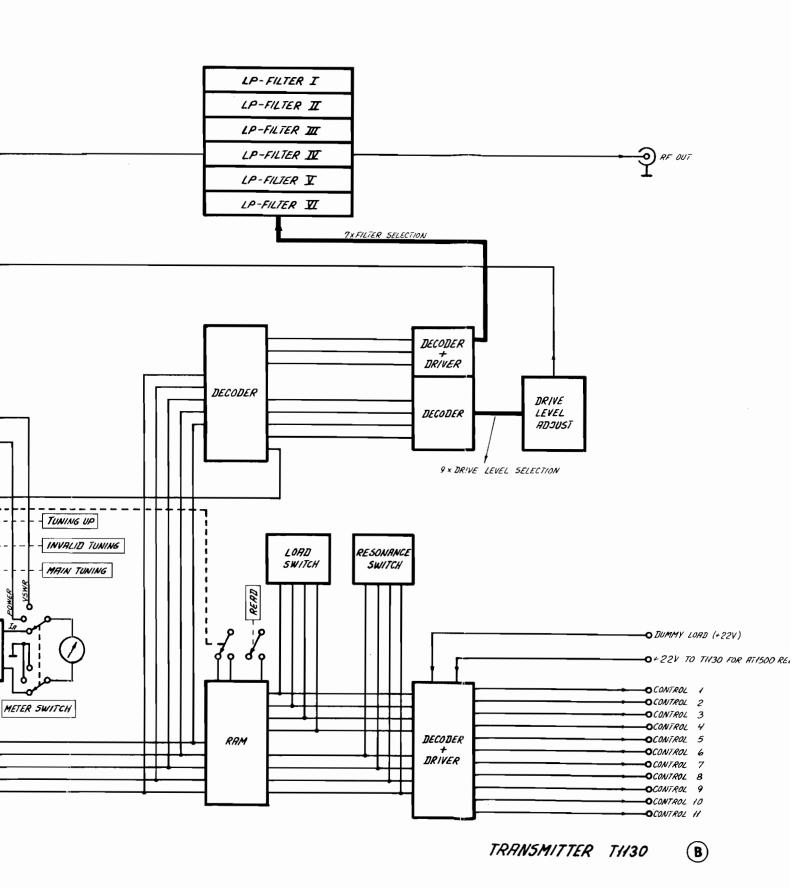
SAILOR T1130 can be supplied from: N1406 12V DC

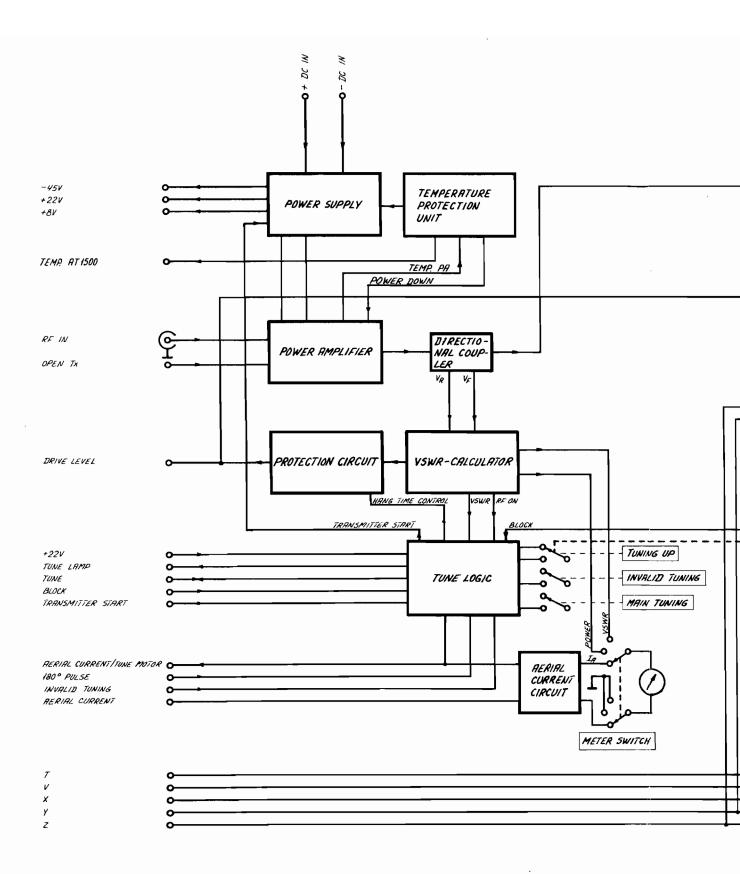
N 1407 24V DC N 1408 32V DC

N1409 110/220/240V AC

SAILOR T1130 can be used in conjunction with exciter S1302, S1303 and S1304.

SAILOR T1130 fits into SAILOR 19" rack system.





PRINCIPLE OF OPERATION

The SAILOR Transmitter T1130 has built-in power supply and is constructed to be used together with Aerial Coupler AT1500, Exciters S1302, S1303 and S1304. Receivers R1119 and R1120.

The RF signal from the exciter is amplifiered in a full-transistorized Power Amplifier delivering a power output of 550W PEP at 50 ohm. The power output from the Power Amplifier is feed through a Directional Coupler and then to a Low Pass Filter section. The output power after the low pass filter section is 500W PEP at 50 ohm and all harmonics are more than 43dB below the funtamental for the frequency range 1.6 MHz to 28 MHz.

The Directional Coupler is connected to a VSWR-CALCULATOR which is calculating the reflections coefficient. The output is connected to the Protection Circuit and the TUNE LOGIC.

The Protection Circuit is controling the drive level from the exciter in such a way that the Power Amplifier is protected against excessive VSWR.

The TUNE logic is controlling the tune motor of the Aerial Coupler AT1500 and it is also controlling the power supply through Transmitter start.

The Aerial Current Circuit is receiving a DC voltage propotional to the aerial current from the Aerial Coupler AT1500.

By means of the METER SWITCH it is possible to measure the Aerial Current, Power output and VSWR.

From S130x a 5 bit Frequency Band code is received. This code is Decoded and then controling the Low Pass Filter selection and drive level adjusting. Further more it is controling the date selection of the RAM. This RAM is programmeable under tuning up by means of the Load Switch and Resonance Switch. These switches are controling the presetings of the Aerial Coupler AT1500 through the Decoder and Driver. The RAM has litium battery back up so the presetings of the Load and Resonance will be remembered for at least 5 years. If the Aerial has been changed it is possible to change the presetings of Load and Resonance. The only necessary tool for tuning up is a screw-driver and all tuning up facilities are accessible, from the Front of the Transmitter.

TUNE-UP PROCEDURE

When installing T1130/AT1500 or changing the aerial it is necessary to retune the pre-settings of AT1500. The procedure for this is as follows:

COARSE TUNING

- 1. Remove the filter at the front of T1130.
- 2. Set the uppermost switch at the extreme right in position AUTO, the second in position TUNE-UP and the fourth in position S.
- 3. Select the highest programmed frequency in each band listed in table 1.
- 4. Select the lowest permitted resonance number on the RESONANCE switch (see fig. 1) for the band in question according to table 2.
- 5. Select the lowest permitted load number on the LOAD switch (see fig. 1), for the band in question according to table 2.
- 6. Push the TUNE button on the exciter, and wait until the tune lamp on the exciter stops lighting or starts to flash. (Max. tune time 20 secs).
- 7. If the TUNE lamp stops lighting then press the button INVALID TUNING (see fig. 1). (If the TUNE lamp starts to flash after pressing INVALID TUNING don't care!)
 - a. If the red lamp below the push button does not light up you have found a tuning with a voltage standing wave ratio (VSWR) less than 2 and can go to FINAL TUNING point 1.
 - b. If the red lamp lights up, then select a resonance number higher according to table 2, and start from point 5.
 - c. If the TUNE lamp starts to flash, select the next load number according to table 2. Now repeat point 6 and 7, until the highest load number is reached.
- 8. Select the next resonance number on the RESONANCE switch and repeat point 5, 6 and 7.

FINAL TUNING

- 1. Set the uppermost switch in position MAN and record the reading on the AE-RIAL CURRENT meter and switch off again.
- 2. Select the next higher load number.
- 3. Push the TUNE button and wait for the tuning.
- 4. Set the uppermost switch in position MAN and record the reading on the AE-RIAL CURRENT meter, and switch off again.
- 5. If the TUNE lamp starts to flash or the reading is less than under previous tuning, then press the button INVALID TUNING (if the TUNE lamp starts to flash after pressing INVALID TUNING don't care!)
 - a. If the red lamp does not light up, set the LOAD switch to the previous number and procede with BANDWIDTH CHECK point 1.
 - b. If the red lamp <u>lights up</u> then select a number higher resonance and continue from point 3.
- 6. If the reading is higher then press the button INVALID TUNING. LOAD
 - a. If the red lamp does not light up then select a number higher resonance and continue from point 3.
 - b. If the red lamp <u>lights up</u> then select a number higher resonance and continue from point 3.

TUNE-UP PROCEDURE

When installing T1130/AT1500 or changing the aerial it is necessary to retune the pre-settings of AT1500. The procedure for this is as follows:

COARSE TUNING

- 1. Remove the filter at the front of T1130.
- 2. Set the uppermost switch at the extreme right in position AUTO, the second in position TUNE-UP and the fourth in position S.
- 3. Select the highest programmed frequency in each band listed in table 1.
- 4. Select the lowest permitted resonance number on the RESONANCE switch (see fig. 1) for the band in question according to table 2.
- 5. Select the lowest permitted load number on the LOAD switch (see fig. 1), for the band in question according to table 2.
- 6. Push the TUNE button on the exciter, and wait until the tune lamp on the exciter stops lighting or starts to flash. (Max. tune time 20 secs).
- 7. If the TUNE lamp stops lighting then press the button INVALID TUNING (see fig. 1). (If the TUNE lamp starts to flash after pressing INVALID TUNING
 - don't care!)
 a. If the red lamp below the push button does not light up you have found a tuning with a voltage standing wave ratio (VSWR) less than 2 and can go to FINAL TUNING point 1.
 - b. If the red lamp lights up, then select a resonance number higher according to table 2, and start from point 5.
 - c. If the TUNE lamp starts to flash, select the next load number according to table 2. Now repeat point 6 and 7, until the highest load number is reached.
- 8. Select the next resonance number on the RESONANCE switch and repeat point 5, 6 and 7.

FINAL TUNING

- 1. Set the uppermost switch in position MAN and record the reading on the AE-RIAL CURRENT meter and switch off again.
- 2. Select the next higher load number.
- 3. Push the TUNE button and wait for the tuning.
- 4. Set the uppermost switch in position MAN and record the reading on the AE-RIAL CURRENT meter, and switch off again.
- 5. If the TUNE lamp starts to flash or the reading is less than under previous tuning, then press the button INVALID TUNING (if the TUNE lamp starts to flash after pressing INVALID TUNING don't care!)
 - a. If the red lamp does not light up, set the LOAD switch to the previous number and procede with BANDWIDTH CHECK point 1.
 - b. If the red lamp <u>lights up</u> then select a number higher resonance and continue from point 3.
- 6. If the reading is higher then press the button INVALID TUNING. LOAD
 - a. If the red lamp does not light up then select a number higher resonance and continue from point 3.
 - b. If the red lamp <u>lights up</u> then select a number higher resonance and continue from point 3.

TABLE 1

BANDS in T1130	MARITIME BANDS
2182.0 kHz	
1 600.0 - 1 799.9 kHz	1 600.0 - 1 799.9 kHz
1 800.0 - 1 999.9 kHz	1 800.0 - 1 999.9 kHz
2 000.0 - 2 199.9 kHz	2 000.0 - 2 199.9 kHz
2 200.0 - 2 399.9 kHz	2 200.0 - 2 399.9 kHz
2 400.0 - 2 599.9 kHz	2 400.0 - 2 599.9 kHz
2 600.0 - 2 799.9 kHz	2 600.0 - 2 799.9 kHz
2 800.0 - 2 999.9 kHz	2 800.0 - 2 999.9 kHz
3 000.0 - 3 099.9 kHz	3 000.0 - 3 099.9 kHz
3 100.0 - 3 399.9 kHz	3 100.0 - 3 399.9 kHz
3 400.0 - 3 699.9 kHz	3 400.0 - 3 699.9 kHz
3 700.0 - 3 999.9 kHz	3 700.0 - 3 999.9 kHz
4 000.0 - 4 299.9 kHz	4 063.0 - 4 219.4 kHz
4 300.0 - 4 599.9 kHz	
4 600.0 - 4 999.9 kHz	
5 000.0 - 5 499.9 kHz	
5 500.0 - 5 999.9 kHz	
6 000.0 - 6 399.9 kHz	6 200.0 - 6 325.4 kHz
6 400.0 - 6 999.9 kHz	
7 000.0 - 7 599.9 kHz	
7 600.0 - 7 999.9 kHz	
8 000.0 - 8 499.9 kHz	8 195.0 - 8 435.4 kHz
12 300.0 - 12 699.9 kHz	12 330.0 - 12 652.3 kHz
16 400.0 - 16 899.9 kHz	16 460.0 - 16 859.4 kHz
22 000.0 - 22 399.9 kHz	22 000.0 - 22 310.5 kHz
25 000.0 - 25 199.9 kHz	25 070.0 - 25 110.0 kHz
Optional	
Optional	

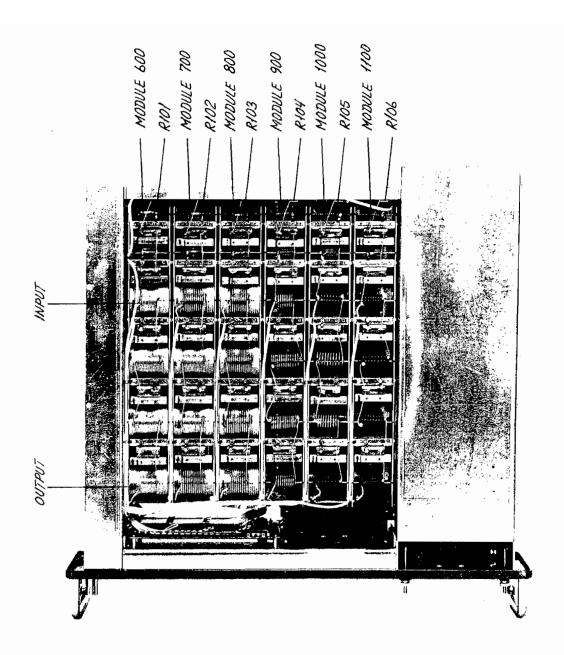
TABLE 2: PERMITTED RESONANCE AND LOAD NUMBERS

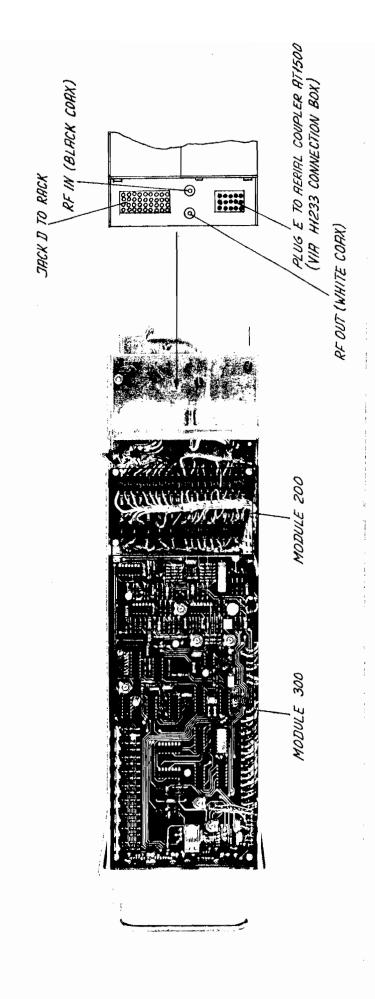
RESONANCE

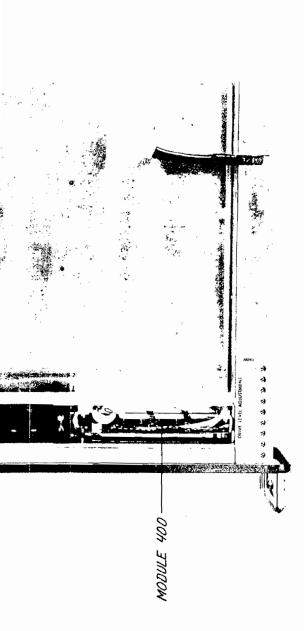
Frequency MHz		Permitted Numbers										
1.6 - 3.1	0	1	2	3								
3.1 - 4.3		1	2	3								
6.2 - 6.4			2	3	4	5						
8.1 - 8.5			2	3	4	5	6	7				
12.3 - 12.7							6	7	8	9		
16.4 - 16.9								7	8	9	10	
22 - 22.4											10	11
25 - 25.2											10	11

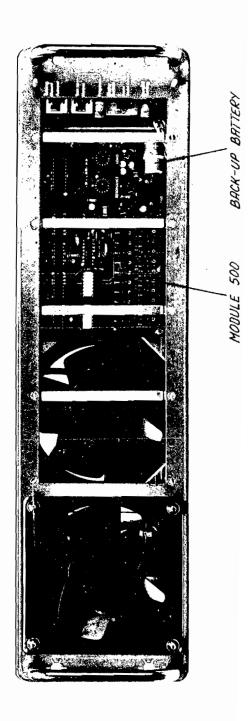
LOAD

Frequency MHz		Permitted Numbers									
1.6 - 2.6	0	1									
2.6 - 3.1	0	1	2								
3.1 - 3.9	0	1	2	3	4	5	6				
4.0 - 4.3	0	1	2	3	4	5	6	7	8	9	10
6 - 8.5	0	1	2	3	4	5	6	7	8	9	
12.3 - 16.9	0	1	2	3	4	5	6	7			
22 - 25.1	0	1	2	3	4						









b		CHASSIS T1130			1/1
Symbol		Description		Manufact.	
MO 10 1 MO 10 2	Blower Blower	24V 50 Hz 24V 50 Hz		PABST PABST	4624N 4624N
R 10 1	Resistor	100 ohm 5%	25W	ARCOL/ DANOTHERM ARCOL/	NHS 25
R102 R103	Resistor Resistor	100 ohm 5%	25W 25W	DANOTHERM ARCOL/ DANOTHERM	NHS 25
R 104	Resistor	100 ohm 5%	25W	ARCOL/ DANOTHERM	NHS 25
R 105	Resistor	100 ohm 5%	25W	ARCOL/ DANOTHERM	NHS 25
R106	Resistor	100 ohm 5%	25W	ARCOL/ DANOTHERM ARCOL/	NHS 25
R 107	Resistor	22 ohm <u>+</u> 5%	25W	DANOTHERM ARCOL/	HS 25
R108	Resistor	82 ohm <u>+</u> 5%	10W	DANOTHERM	HS 10
R109	Resistor PTC	KTY-11-2D		Siemens	Q62705 - K56
IC101 IC102	Voltage regulator Voltage regulator	15V 5V		Motorola Motorola	LM340T15
T 10 1	Transistor			Motorola	BDX53
T102	Transistor			Motorola	Вих53
TR 10 1	Balun.			S.P.	TL298

b	INPUT FILT	ER UNIT T1130				1/2
Symbol	Des	cription		Manufact.		
C20 1	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C203	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-01104-K	
C205	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C207 C208	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C209 C210	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B325 10-D 1 104-K	
C211	Capacitor polyester	1 nF <u>+</u> 10%	400V	Siemens	B32510-D6102-K	
C212	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B325 10-D 1 104-K	
C213	Capacitor polyester	1 nF <u>+</u> 10%	400V	Siemens	B32510-D6102-K	
C214	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C215	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C216	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C217	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B325 10-D 1 104-K	
C218	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C219	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C220	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B325 10-D 1 104-K	
C221	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C222	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C223	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B325 10-D 1 104-K	
C224	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C225	Capacitor polyester	100 nF +10%	100 V	Siemens	B325 10-D1 104-K	
C226	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C227	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C228	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C229	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B325 10-D 1 104-K	
C2 3 0	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C231	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C2 3 2	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104 - K	
C233	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C234	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C235	Capacitor polyester	100 nF <u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C236	Capacitor polyester	100 nF +10%	100V	Siemens	B325 10-D 1 104-K	
C237	Capacitor polyester	100 nF ±10%	100V	Siemens	B32510-D1104-K	
C238	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B325 10-D 1 104-K	
C239	Capacitor polyester	100 nF +10%	100V	Siemens	B325 10-D 1 104-K	
C240	Capacitor polyester	100 nF <u>+</u> 10%	100V	Siemens	B325 10-D1 104-Ķ	
	<u> </u>					

а	INPUT		2/2			
Symbol		Description		Manufact.		
FP201	Ferroxcube beads	3P		Dhálán	/ 222 020 2//00	
FP201	Ferroxcube beads	3B 3B		Philips	4322 020 34400	
FP203	Ferroxcube beads			Philips	4322 020 34400	
FP204		3B		Philips	4322 020 34400	
	Ferroxcube beads	3B		Philips	4322 020 34400	
FP205	Ferroxcube beads	3B		Philips	4322 020 34400	
FP206	Ferroxcube beads	3B		Philips	4322 020 34400	
FP207	Ferroxcube beads	3B		Philips	4322 020 34400	
FP208	Ferroxcube beads	3B		Philips	4322 020 34400	
FP209	Ferroxcube beads	3B		Philips	4322 020 34400	
FP210	Ferroxcube beads	3B		Philips	4322 020 34400	
FP211	Ferroxcube beads	3B		Philips	4322 020 34400	
FP212	Ferroxcube beads	3B		Philips	4322 020 34400	
FP213	Ferroxcube beads	3B		Philips	4322 020 34400	
FP214	Ferroxcube beads	3B		Philips	4322 020 34400	
FP215	Ferroxcube beads	3B		Philips	4322 020 34400	
FP216	Ferroxcube beads	3B		Philips	4322 020 34400	
FP217	Ferroxcube beads	3B		Philips	4322 020 34400	
FP218	Ferroxcube beads	3B		Philips	4322 020 34400	
FP219	Ferroxcube beads	3B		Philips	4322 020 34400	
FP220	Ferroxcube beads	3B		Philips	4322 020 34400	
FP221	Ferroxcube beads	3B		Philips	4322 020 34400	
FP222	Ferroxcube beads	3B		Philips	4322 020 34400	
FP223	Ferroxcube beads	3B		Philips	4322 020 34400	
FP224	Ferroxcube beads	3B		Philips	4322 020 34400	
FP225	Ferroxcube beads	3B		Philips	4322 020 34400	
FP226	Ferroxcube beads	3B		Philips	4322 020 34400	
FP227	Ferroxcube beads	3B		Philips	4322 020 34400	
FP228	Ferroxcube beads	3B		Philips	4322 020 34400	
FP229	Ferroxcube beads	3B		Philips	4322 020 34400	
FP230	Ferroxcube beads	3B		Philips	4322 020 34400	
P 20 1	Posiston	/- 7 1	0.000	L Division of	2222 044 424	
R201	Resistor	47 ohm ±5%	0.33W	Philips	2322 211 13479	
R202	Resistor	47 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13479	
R203	Resistor	47 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13479	
R204	Resistor	47 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13479	
R205	Resistor	47 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13479	

b	Т	RANSMITTER CONT	'ROL	UN	IT T1130				1/7
Symbol		Descript	ion				Manufact.		
C301	Capacitor p	olyester	100	nF	<u>+</u> 10%	100V	Siemens	B32510-D1104-K	
C302	Capacitor p	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C303	Capacitor p	olyester	680	nF	<u>+</u> 10%	100V	Siemens	B32560-D1684-K	
C304	Capacitor p	olyester	150	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1154-K	
C305	Capacitor p	olyester	10	nF	<u>+</u> 10%	400V	Siemens	B325 10-D6 103-K	
C306	Capacitor p	olyester	47	nF	<u>+</u> 10%	250 v	Siemens	B32510-D3473-K	
C307	Capacitor p	olyester	1	nF	<u>+</u> 10%	400V	Siemens	B325 10-D6 102-K	
C308	Capacitor p	olyester	1	nF	<u>+</u> 10%	400V	Siemens	B32510-D6102-K	
C309	Capacitor p	olyester	3.3	nF	<u>+</u> 10%	400V	Siemens	B32510-D6332-K	
C310	Capacitor p	olyester	470	nF	±10%	100V	Siemens	B32560-D1474-K	
C311	Capacitor p	olyester	1	пF	<u>+</u> 10%	400V	Siemens	B325 10-D6 102-K	
C312	Capacitor e	lectrolytic	10	uF		35 V	ERO	EKI 00 AA 210F	
C313	Capacitor p	olyester	10	nF	<u>+</u> 10%	400V	Siemens	B325 10-D6 103-K	
C314	Capacitor e	lectrolytic	10	uF		35V	ERO	EKI 00 AA 210F	
C315	Capacitor p	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C316	Capacitor p	olyester	3.3	nF	<u>+</u> 10%	400V	Siemens	B32510-D6332-K	
C317	Capacitor p	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C318	Capacitor p	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C319	Capacitor p	olyester	1	nF		400 V	Siemens	B32510-D6102-K	
C320	Capacitor p	olyester	1	nF	<u>+</u> 10%	400V	Siemens	B32510-D6102-K	
C321	Capacitor po	olyester	1	nF	<u>+</u> 10%	400V	Siemens	B32510-D6102-K	
C322	Capacitor po	olyester	1	uF	<u>+</u> 10%	250V	Siemens	B32513-D3105-K	
C323	Capacitor po	olyester	10	nF	+50%	400 V	Siemens	B32510-D6103-K	
C324									
C325							,		
C326	Capacitor po	olyester	220	nF	<u>+</u> 10%	100 V	Siemens	B32560-D1224-K	
C327	Capacitor po	olyester	220	nF	+10%	100 V	Siemens	B32560-D1224-K	
C328	Capacitor po	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C329	Capacitor po	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B32510-D1104-K	
C330	Capacitor po	olyester	100	nF	<u>+</u> 10%	100 V	Siemens	B325 10-D1 104-K	
D30 1	Diode						Philips	AA 143	
2302	Diode						Philips	AA 143	
2303	Diode						Philips	BAV21	
304	Diode						Philips	BAV21	
305		emitting red.					Xciton	XC 5053Y	
306	Diode						Philips	BAV21	

b	TRANSMITT	ER CONTROL	UNI	T 113	30		2/
Symbol		Description				Manufact.	
D307	Diode					Philips	BAV21
D308	Diode					Philips	BAV21
D309	Diode					Philips	BAV21
D310	Diode					Philips	BAV21
D311	Diode					Philips	BAV21
D312	Diode					Philips	BAV21
D313	Diode					Philips	BAV21
D3 14	Diode					Philips	BAV21
D3 15	Diode					Philips	BAV21
D316	Diode					Philips	BAV21
D317	Diode					Philips	BAV21
D318	Diode					Philips	BAV21
D319	Diode, zener					Philips	BZX 79 C15
D320	Diode					Philips	AA 143
D321	Diode					Philips	1N4448
D322	Diode					Philips	1N4448
D323	Diode					Philips	AA 143
D324	Diode					Philips	1N4448
D325	Diode					Philips	BAV21
D326	Diode					Philips	BAV21
D327	Diode					Philips	BAV21
D328	Diode					Philips	BAV21
D329	Diode					Philips	BAV21
D330	Diode					Philips	BAV21
D331	Diode					Philips	BAV21
D332	Diode					Philips	BAV21
D333	Diode					Philips	BAV21
D334	Diode					Philips	BAV21
D335	Diode					Philips	BAV21
RA301	Resistor array	8x 10	kohm	<u>+</u> 5%	O.125W	ITT	UR8 10 kohm <u>+</u> 5%
R301	Resistor	22	kohm	⊥ 5%	U 33F1	Philips	2322 211 13223
R302	Preset potmeter		kohm	±2/0		Philips	2322 211 13223
R303	Resistor			-5%		1	
R304	Resistor		kohm	_		Philips	2322 211 13152
]		ohm	_		Philips	2322 211 13821
R305	Resistor	5.6	kohm	_ 5%	0.33W	Philips	2322 211 13562

b	TRANSMI	TTER CONTROL UNIT T1130			3/7
Symbol		Description		Manufact.	
R306	Resistor	5.6 kohm +5%	0.33W E	Philips	2322 211 13562
R307	Resistor	5.6 kohm +5%		Philips	2322 211 13562
R308	Resistor	5.6 kohm +5%		Philips	2322 211 13562
R309	Resistor	5.6 kohm +5%		Philips	2322 211 13562
R310	Resistor	5.6 kohm +5%		Philips	2322 211 13562
R311	Resistor	5.6 kohm +5%	0.33W H	Philips	2322 211 13562
R312	Resistor	5.6 kohm <u>+</u> 5%	0.33W F	Philips	2322 211 13562
R313	Resistor	5.6 kohm <u>+</u> 5%	0.33W E	Philips	2322 211 13562
R314	Preset potmeter	4.7 kohm	0.5W I	Philips	2322 482 30472
R315	Resistor	100 kohm <u>+</u> 5%			
R316	Preset potmeter	4.7 kohm	0.5W I	Philips	2322 482 30472
R317	Resistor	100 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R318	Preset potmeter	4.7 kohm	0.5W E	Philips	2322 482 30472
R319	Resistor	100 kohm <u>+</u> 5%	0.33W I	Philips	2322 211 13104
R320	Preset potmeter	4.7 kohm	0.5W F	Philips	2322 482 30472
R321	Resistor	100 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R322	Preset potmeter	4.7 kohm	0.5W E	Philips	2322 482 30472
R323	Resistor	100 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R324	Preset potmeter	4.7 kohm	0.5W	Philips	2322 482 30472
R325	Resistor	100 kohm <u>+</u> 5%	0.33W I	Philips	2322 211 13104
R326	Preset potmeter	4.7 kohm	0.5W E	Philips	2322 482 30472
R327	Resistor	100 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R328	Preset potmeter	4.7 kohm	0.5W I	Philips	2322 482 30472
R329	Resistor	100 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R330	Preset potmeter	4.7 kohm	0.5W	Philips	2322 482 30472
R331	Resistor	100 kohm <u>+</u> 5%	0.33W I	Philips	2322 211 13104
R332	Resistor	22 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13223
R333	Resistor	2.7 kohm <u>+</u> 5%	1	Philips	2322 212 13272
R334	Resistor	150 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13151
R335	Resistor	270 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13274
R336	Resistor	680 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13684
R337	Resistor	1 Mohm <u>+</u> 5%	0.33W	Philips	2322 211 13105
R338	Resistor	330 kohm <u>+</u> 5%	1	Philips	2322 211 13334
R339	Resistor	10 kohm <u>+</u> 5%	1	Philips	2322 211 13103
R340	Resistor	1.8 Mohm <u>+</u> 5%	0.33W	Philips	2322 211 13185
R34 1	Resistor	10 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13103
R342	Resistor	10 kohm <u>+</u> 5%		Philips	2322 211 13103
R343	Resistor	1 Mohm <u>+</u> 5%	. 1	Philips	2322 211 13105
R344	Resistor	1.8 Mohm <u>+</u> 5%	0.33W	Philips	2322 211 13185
R345	Preset potmeter	10 kohm		Philips	2322 410 03357
R346	Resistor	22 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13223

b		TRANSMITTER CON	TROL (UNIT	T1130			4/7
Symbol		Description				Manufact.		
R347	Resistor	270	kohm	+5%	0.33W	Philips	2322 211 13274	
R348	Resistor	270	kohm	- +5%	0.33W	Philips	2322 211 13274	
R349	Resistor	39	kohm	- 5%	0.33W	Philips	2322 211 13393	
R350	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13104	
R351	Resistor	100	kohm	_ <u>+</u> 5%	0.33W	Philips	2322 211 13104	
R352	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13104	
R353	Resistor	10	Mohm	<u>+</u> 5%	0.33W	Philips	2322 211 12106	
R354	Resistor	47	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13473	
R355	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13104	
R356	Resistor	33	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13333	
R357	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R358	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R359	Resistor	. 22	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13223	
R360	Resistor	1	Mohm	<u>+</u> 5%	0.33W	Philips	2322 211 13105	
R361	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R362	Resistor	3.3	kohm	+ 5%	0.33W	Philips	2322 211 13334	
R363	Resistor	15	kohm	± 5%	0.33W	Philips	2322 211 13153	
R364	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R365	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R366	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R367	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R368	Resistor	18	kohm	+ 5%	0.33W	Philips	2322 211 13183	
R369	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R370	Resistor	100	kohm	+ 5%	0.33W	Philips	2322 211 13104	
R371	Resistor	5.6	kohm	+ 5%	i	Philips	2322 211 13562	
R372	Resistor	10	kohm	_ 5%		Philips	2322 211 13103	
R373	Resistor		kohm	_		Philips	2322 211 13103	
R374	Resistor		kohm	-		Philips	2322 211 13103	
R375	Resistor	10	kohm	_ 5%	0.33W	Philips	2322 211 13103	
R376	Resistor		kohm			Philips	2322 211 13562	
R377	Resistor	5.6	kohm	<u>+</u> 5%		Philips	2322 211 13562	
R378	Resistor		ohm	_		Philips	2322 211 13681	
R379	Resistor		kohm	_		Philips	2322 211 13562	
R380	Resistor		ohm	_		Philips	2322 214 13151	
R381	Resistor		kohm	_		Philips	2322 211 13102	
R382	Resistor		kohm	_		Philips	2322 211 13182	
R383	Resistor		kohm	_		Philips	2322 211 13103	
R384	Resistor		Mohm	_		Philips	2322 211 12225	
R385	Resistor		kohm	_		Philips	2322 211 13103	
R386	Resistor		Mohm	_		Philips	2322 211 12395	
R387	Resistor	3.3	kohm	<u>+</u> 5%	O.33W	Philips	2322 211 13332	

b	TRANSMI	TTER CONT	rrol u	UNIT	T1130			5/7
Symbol		Description	7			Manufact.		
R388	Resistor	5.6	kohm	+ 5%	0.33W	Philips	2322 211 1356	52
R389	Resistor		kohm	_	0.33W	Philips	2322 211 1310)2
R390	Resistor		kohm	_	0.33W	Philips	2322 211 1310)3
R391	Resistor		kohm	_		Philips	2322 211 1315	
R392	Resistor	5.6	kohm	 +5%	0.33W	Philips	2322 211 1356	52
R393	Resistor	5.6	kohm	_ <u>+</u> 5%	0.33W	Philips	2322 211 1356	52
R394	Resistor	5.6	kohm	_ +5%	0.33₩	Philips	2322 211 1356	52
R395	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310	3
R396	Resistor	1	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310	2
R397	Resistor	6.8	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1368	32
R398	Resistor	33	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1333	33
R399	Preset potmeter	10	kohm			Philips	2322 410 0335	57
R301a	Resistor	39	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1339	3
R302a	Resistor	1	kohm	+ 5%	0.33W	Philips	2322 211 1310)2
R303a	Resistor	3.9	kohm	<u>+</u> 5%	0.33₩	Philips	2322 211 1339	12
R304a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310	14
R305a	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)3
R306a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)4
R307a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)4
R308a	Resistor	1	Mohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)5
R309a	Resistor	3.3	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1333	32
R310a	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)3
R311a	Resistor	100	kohm	+ 5%	0.33W	Philips	2322 211 1310)4
R312a	Resistor	100	kohm	+ 5%	0.33W	Philips	2322 211 1310)4
R313a	Resistor	3.3	kohm	+ 5%	0.33W	Philips	2322 211 1333	32
R314a	Resistor	5.6	kohm	+ 5%	0.33W	Philips	2322 211 1356	52
R315a	Resistor	10	Mohm	+ 5%	0.33W	Philips	2322 211 1210	06
R316a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)4
R317a	Resistor	10	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)3
R318a	Preset potmeter	4.7	kohm			Philips	2322 410 0335	66
R319a	Resistor	22	kohm	± 5%	0.33W	Philips	2322 211 1322	23
R320a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310	
R321a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)4
R322a	Resistor	22	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1322	23
R323a	Resistor	8.2	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1382	22 .
R324a	Resistor	100	kohm	<u>+</u> 5%	0.33W	Philips	2322 211 1310)4
R325a	Resistor		kohm	-		Philips	2322 211 1333	
R326a	Resistor		kohm			Philips	2322, 211 1310	
R327a	Resistor		kohm	_	0.33W	Philips	2322 211 1310	
R328a	Resistor	47	kohm	+ 5%	0.33W	Philips	2322 211 1347	
R329a	Preset potmeter	10	kohm			Philips	2322 410 0335	57

b	TRANSM	ITTER CONTRO	L UNIT T1	130		6/7
Symbol		Description			Manufact.	
R330a	Resistor	820 o	hm <u>+</u> 5%	0.33W	Philips	2322 211 13821
R331a	Resistor	3.3 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13332
R332a	Resistor	100 ko	hm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R333a	Resistor	1 Mo	hm <u>+</u> 5%	0.33W	Philips	2322 211 13105
R334a	Preset potmeter	100 o	hm		Philips	2322 410 03352
R335a	Resistor	100 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13104
R336a	Resistor	10 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13103
R337a	Resistor	10 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13103
R338a	Resistor	180 c	hm <u>+</u> 5%	0.33W	Philips	2322 211 13181
R339a	Resistor	120 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13124
R340a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R341a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R342a	Resistor	82 c	hm <u>+</u> 5%	0.33W	Philips	2322 211 13829
R343a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R344a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R345a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R346a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R347a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R348a	Resistor		hm <u>+</u> 5%		Philips	2322 211 13272
R349a	Resistor	2.7 kg	hm <u>+</u> 5%	0.33W	Philips	2322 211 13272
						1
RE301	Relay	24V			National	HB2-DC-24V
S301	Switch				ALCO	MSSA 2350R
S302	Switch				ALCO	MSS 2250R
S303	Switch				C&K	SPDT AV2 8125
S304	Switch				C&K	SPDT AV2 8125
S305	Switch				ALCO	MSS 2250R
T301	Transistor				Philips	BC327 - 25
T302	Transistor				Philips	BC327-25
T303	Transistor				Philips	BC327-25
T304	Transistor				Philips	BC327-25
T305	Transistor				Philips	BC327-25
T306	Transistor				Philips	BC327-25

b	TRANSMITTER CONTROL UNIT T1	130	7/7
Symbol	Description	Manufact.	
T307	Transistor	Philips	BC327-25
T308	Transistor	Philips	BC327-25
T309	Transistor	Philips	BC327-25
T3 10	Transistor	Philips	BC338
T311	Transistor	Philips	BC338
T312	Transistor	Philips	BC338
T313	Transistor	Philips	BC338
T314	Transistor	Philips	BD138
T315	Transistor	Philips	BC328
T310	Transistor	Philips	BC338
T317	Transistor	Philips	BC328
T318	Transistor	Philips	2N2368
T319	Transistor	Philips	BC338
T320	Transistor	Philips	BC338
T321	Transistor	Philips	BC338
T322	Transistor	Philips	BC 14 1-10
IC301	Integrated circuit	MMI	6330-1
IC302	Integrated circuit	Motorola	MC14028B
, IC303	Integrated circuit	Motorola	MC14028B
IC304	Integrated circuit	Texas	SN74LS06
IC305	Integrated circuit	Texas	SN74LS06
IC306	Integrated circuit	Texas	SN74LS06
IC307	Integrated circuit	Motorola	LM324
10308	Integrated circuit	Motorola	MC14093B
IC309	Integrated circuit	Motorola	MC14093B
IC31O	Integrated circuit	Motorola	MC14049B
IC311	Integrated circuit	Motorola	LM339
IC312	Integrated circuit	Motorola	MC14071B
IC313	Integrated circuit	Motorola	MC 14043B
IC314	Integrated circuit	Motorola	MC14072B
IC315	Integrated circuit	Texas	NE 555P
IC316	Integrated circuit .	Motorola	LM1458
IC317	Integrated circuit	Motorola	MC 14007B
IC318	Integrated circuit	Motorola	MC 14017B

C403 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C404 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C405 Capacitor, trimmer 8-80 pF C406 Capacitor, ceramic 220 pF ±10% 500V K.C.K. HM 11 C407 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HE 11 C407 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HE 11 C408 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C409 Capacitor, polyester 1 nF ±10% 250V Siemens B32510 C410 Capacitor, polyester 150 nF ±10% 250V Siemens B32510 C411 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C412 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C413 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C414 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C415 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C417 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C418 Capacitor, polyester 100 nF ±10% 250V Siemens B32510 C419 Diode Philips BAV21 C410 Diode Philips BAV2	1/			0	OUPLER T113	RECTION	FILTER SWITCH/DIR	a
C402 Capacitor, ceramic 220 pF ±10% 50V K.C.K. HE 11 C403 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C404 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C405 Capacitor, trimmer 8-80 pF DAU 009,46 C406 Capacitor, ceramic 220 pF ±10% 500V K.C.K. HM 11 C407 Capacitor, ceramic 220 pF ±10% 500V K.C.K. HM 11 C408 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C409 Capacitor, ceramic 110 pF ±10% 500V K.C.K. HM 11 C409 Capacitor, polyester 1 nF ±10% 250V Siemens B32510 C410 Capacitor, polyester 150 nF ±10% 250V Siemens B32510 C411 Capacitor, polyester 150 nF ±10% 250V Siemens B32510 C412 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C413 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C414 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C415 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 C416 Capacitor, polyester 10 nF ±10% 250V Siemens B32510 D401 Diode Diode Philips BAV21 D402 Diode Philips BAV21 D403 Diode Philips BAV21 D404 Diode Philips BAV21 D406 Diode Philips BAV21 D407 Diode Philips BAV21 D408 Diode Philips BAV21 D409 Diode Philips BAV21 D409 Diode Philips BAV21 D401 Integrated circuit Motorola Philips BAV21 C401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 D403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D407 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D408 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D409 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Philips 2322 2 D400 Resistor 100 ohm ±5% 0.33W Ph			Manufact.			cription	Des	Symbol
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D402 Diode Philips BAV21 D403 Diode Philips BAV21 D404 Diode Philips BAV21 D405 Diode Philips BAV21 D406 Diode Philips BAV21 D407 Diode Philips AA143 D408 Diode Philips 1N4448 D409 Diode Philips 1N4448 D410 Diode Philips 2322 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 R402 Resistor 100 ohm ±5% 0.33W Philips 2322 R40		1						
D402 Diode Philips BAV21 D403 Diode Philips BAV21 D404 Diode Philips BAV21 D405 Diode Philips BAV21 D406 Diode Philips BAV21 D407 Diode Philips AA143 D408 Diode Philips AA143 D409 Diode Philips 1N4448 D4 10 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor		BAV21	 Philips				Diode	D401
D404 Diode Philips BAV21 D405 Diode Philips BAV21 D406 Diode Philips BAV21 D407 Diode Philips AA143 D408 Diode Philips AA143 D409 Diode Philips 1N4448 D410 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W P		BAV21	Philips				Diode	D402
D405 Diode Philips BAV21 D406 Diode Philips BAV21 D407 Diode Philips AA143 D408 Diode Philips AA143 D409 Diode Philips 1N4448 D4 10 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		BAV21	Philips				Diode	D403
D406 Diode Philips BAV21 D407 Diode Philips AA143 D408 Diode Philips AA143 D409 Diode Philips 1N4448 D4 10 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		BAV21	Philips				Diode	D404
D407 Diode Philips AA143 D408 Diode Philips AA143 D409 Diode Philips 1N4448 D410 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		BAV21	Philips				Diode	D405
D408 Diode Philips AA143 D409 Diode Philips 1N4448 D410 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm +5% 0.33W Philips 2322 2 R402 Resistor 56 kohm +5% 0.33W Philips 2322 2 R403 Resistor 100 ohm +5% 0.33W Philips 2322 2 R404 Resistor 100 ohm +5% 0.33W Philips 2322 2 R405 Resistor 100 ohm +5% 0.33W Philips 2322 2 R406 Resistor 100 ohm +5% 0.33W Philips 2322 2 R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		BAV21	Philips				Diode	D406
D409 Diode Philips 1N4448 D4 10 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		AA 143	Philips				Diode	D407
D4 10 Diode Philips 1N4448 IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm +5% 0.33W Philips 2322 2 R402 Resistor 56 kohm +5% 0.33W Philips 2322 2 R403 Resistor 100 ohm +5% 0.33W Philips 2322 2 R404 Resistor 100 ohm +5% 0.33W Philips 2322 2 R405 Resistor 100 ohm +5% 0.33W Philips 2322 2 R406 Resistor 100 ohm +5% 0.33W Philips 2322 2 R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		AA 143	Philips				Diode	D408
IC401 Integrated circuit Motorola LM324 R401 Resistor 3.9 kohm ±5% 0.33W Philips 2322 2 R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		1N4448	Philips				Diode	D409
R401 Resistor 3.9 kohm +5% 0.33W Philips 2322 2 R402 Resistor 56 kohm +5% 0.33W Philips 2322 2 R403 Resistor 100 ohm +5% 0.33W Philips 2322 2 R404 Resistor 100 ohm +5% 0.33W Philips 2322 2 R405 Resistor 100 ohm +5% 0.33W Philips 2322 2 R406 Resistor 100 ohm +5% 0.33W Philips 2322 2 R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		1N4448					Diode	D4 10
R402 Resistor 56 kohm +5% 0.33W Philips 2322 2 R403 Resistor 100 ohm +5% 0.33W Philips 2322 2 R404 Resistor 100 ohm +5% 0.33W Philips 2322 2 R405 Resistor 100 ohm +5% 0.33W Philips 2322 2 R406 Resistor 100 ohm +5% 0.33W Philips 2322 2 R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		LM324	Motorola				Integrated circuit	IC401
R402 Resistor 56 kohm ±5% 0.33W Philips 2322 2 R403 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2	11 13392	2322 211	Philips	0.33W	hm +5%	3.9 k	Resistor	R401
R403 Resistor 100 ohm \pm 5% 0.33W Philips 2322 2 R404 Resistor 100 ohm \pm 5% 0.33W Philips 2322 2 R405 Resistor 100 ohm \pm 5% 0.33W Philips 2322 2 R406 Resistor 100 ohm \pm 5% 0.33W Philips 2322 2 R407 Resistor 56 kohm \pm 5% 0.33W Philips 2322 2		2322 211			_		Resistor	R402
R404 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R405 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R406 Resistor 100 ohm ±5% 0.33W Philips 2322 2 R407 Resistor 56 kohm ±5% 0.33W Philips 2322 2		2322 211	_		_		Resistor	R403
R405 Resistor 100 ohm $\pm 5\%$ 0.33W Philips 2322 2 R406 Resistor 100 ohm $\pm 5\%$ 0.33W Philips 2322 2 R407 Resistor 56 kohm $\pm 5\%$ 0.33W Philips 2322 2		2322 211	1		_		Resistor	R404
R406 Resistor 100 ohm +5% 0.33W Philips 2322 2 R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		2322 211			_		Resistor	R405
R407 Resistor 56 kohm +5% 0.33W Philips 2322 2		2322 211			_			
		2322 211	L		_			
R408 Resistor		2322 211	Philips	0.33W			Resistor	R408
		2322 211	l .		_			
	JEET							-

a		TUNER CONTROL UNI	T T1130				2/4
Symbol		Description			Manufact.		
R503	Resistor	100 kohm	+5%	0.33W	Philips	2322 211 13103	
R504	Resistor	8.2 kohm	-	0.33W	Philips	2322 211 13822	
R505	Resistor	2.7 kohm	-	0.33W	Philips	2322 211 13272	
R506	Resistor	10 kohm	_	0.33W	Philips	2322 211 13103	
R507	Resistor	8.2 kohm	_	0.33W	Philips	2322 211 13822	
R508	Resistor	2.7 kohm	_	0.33W	Philips	2322 211 13272	
R509	Resistor	10 kohm		0.33W	Philips	2322 211 13103	
R510	Resistor	8.2 kohm		0.33W	Philips	2322 211 13103	
R511	Resistor	2.7. kohm		0.33W	Philips	2322 211 13822	
R512	Resistor	10 kohm	-	0.33W	Philips	2322 211 13272	
R513	Resistor					2322 211 13103	
R5 14	Resistor	8.2 kohm	_	0.33W	Philips	1	
	Resistor	2.7 kohm		0.33W	Philips	2322 211 13272	
R515		10 kohm	-	0.33W	Philips	2322 211 13103	
R516	Resistor	10 kohm	_	0.33W	Philips	2322 211 13103	
R517	Resistor	10 kohm	_	0.33W	Philips	2322 211 13103	
R5 18	Resistor	10 kohm		0.33W	Philips	2322 211 13103	
R5 19	Resistor	10 kohm	_	0.33W	Philips	2322 211 13103	
R520	Resistor	8.2 kohm	-	0.33W	Philips	2322 211 13822	
R521	Resistor	2.7 kohm	_	0.33W	Philips	2322 211 13272	
R522	Resistor	10 kohm	-	0.33W	Philips	2322 211 13103	
R523	Resistor	8.2 kohm	_	0.33W	Philips	2322 211 13822	
R524	Resistor		<u>+</u> 5%	0.5W	Philips	2322 212 13821	
R525	Resistor	1 kohm	_	0.33W	Philips	2322 211 13102	
R526	Resistor	8.2 kohm	_	0.33W	Philips	2322 211 13822	
R527	Resistor	2.7 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13272	
R528	Resistor	10 kohm	_	0.33W	Philips	2322 211 13103	
R529	Resistor	8.2 kohm	_	0.33W	Philips	2322 211 13822	
R530	Resistor		± 5%	0.5W	Philips	2322 212 13821	
R531	Resistor	1 kohm	_	0.33W	Philips	2322 211 13102	
R532	Resistor	8.2 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13822	
R533	Resistor	2.7 kohm	+ 5%	0.33W	Philips	2322 211 13272	
R534	Resistor	10 kohm	± 5%	0.33W	Philips	2322 211 13103	
R535	Resistor	8.2 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13822	
R536	Resistor	2.7 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13272	
R537	Resistor	10 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R538	Resistor	8.2 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13822	
R539	Resistor	2.7 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13272	
R540	Resistor	10 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
R541	Resistor	1 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13102	
R542	Resistor	10 kohm	<u>+</u> 5%	0.33W	Philips	2322 211 13103	
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b	TU	NER CONTROL UNIT T11	30		3/4
Symbol		Description		Manufact.	
R543	Resistor	100 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13101
R544	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm +5%
R545	Resistor	10 kohm	0.125W	ITT	UR 8 10 kohm +5%
R546	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm +5%
R547	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm +5%
R548	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm +5%
R549	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm <u>+</u> 5%
R550	Resistor	10 kohm <u>+</u> 5%	0.125W	ITT	UR 8 10 kohm +5%
R551	Resistor	10 kohm +5%	0.125W	ITT	UR 8 10 kohm +5%
R552	Resistor	33 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13333
R553	Resistor	3.3 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13332
R554	Resistor	100 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13101
R555	Resistor	1 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13102
R556	Resistor	390 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13391
R557	Resistor	1 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13102
R558	Resistor	2.7 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13272
R559	Resistor	560 kohm <u>+</u> 5%	O.33W.	Philips	2322 211 13561
R560	Resistor	10 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13103
R561	Resistor	1 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13102
R562	Resistor	47 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13479
R563	Resistor	10 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13103
R564	Resistor	390 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13391
R565	Resistor	1 kohm <u>+</u> 5%	0.33W	Philips	2223 211 13102
S501	Switch, 16 pos.			AB	235-Н
S502	Switch, 16 pos.			AB	235-Н
T501	Transistor			Philips	BC548
T502	Transistor			Philips	BC548
T503	Transistor			Philips	BC327
T504	Transistor			Philips	BC548
T505	Transistor			Philips	BC327
T506	Transistor			Philips	BC548
T507	Transistor			Philips	BC327
T508	Transistor			Philips	BC548
T509	Transistor			Philips	BC327
T5 10	Transistor			Philips	BC548
T5 11	Transistor			Philips	BC327
T5 12	Transistor			Philips	BC548
T5 13	Transistor			Philips	BC327
T5 14	Transistor			Philips	BC548

a	LP-FI	1/1		
Symbol		Description	Manufact.	
C901	Capacitor, Mica	99.1 pF	S.P.	
C902	Capacitor, Mica	136 pF	S.P.	
C903	Capacitor, Mica	508 pF	S.P.	
C904	Capacitor, Mica	536 pF	S.P.	
C905	Capacitor, Mica	508 pF	S.P.	
L901	Inductor	798 nH	S.P.	
L902	Inductor	545 nH	S.P.	
L903	Inductor	1.06 uH	S.P.	
L904	Inductor	1.87 uH	S.P.	
L905	Inductor	1.87 uH	S.P.	
L906	Inductor	1.06 uH	S.P.	
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ı 	LP=	FILTER 8.5 - 16.9 MHz		1/1
Symbol		Description	Manufact.	
1001	Capacitor, Mica	50.2 pF	S.P.	
1002	Capacitor, Mica	68.7 pF	S.P.	
1003	Capacitor, Mica	255 pF	S.P.	
1004	Capacitor, Mica	282 pF	S.P.	
1005	Capacitor, Mica	255 pF	S.P.	
, 100 1	Inductor	404 nH	S.P.	
1002	Inductor	275 nH	S.P.	
1003	Inductor	530 nH	S.P.	
1004	Inductor	940 nH	S.P.	
1005	Inductor	940 nH	S.P.	
1006	Inductor	530 nH	S.P.	

ica 36.5 pF S.P. ica 147 pF S.P. ica 163 pF S.P.	1/1		Hz T1130	TER 16.9 - 28	LP-FILTE		a
S.P. S.P. S.P. S.P. S.P. S.P. S.P. S.P.		Manufact.		Description			Symbol
S.P. S.P. S.P. S.P. S.P. S.P. S.P. S.P.		S.P.		26.7 pF	Mica	Capacitor,	C1101
ica 147 pF S.P. ica 163 pF S.P. ica 147 pF S.P. ica 147 pF S.P. 214 nH S.P. 305 nH S.P. 542 nH S.P. 542 nH S.P. 305 nH S.P. 592 nH S.P. 593 nH S.P.		1			Mica	Capacitor,	C1102
214 nH S.P. 146 nH S.P. 305 nH S.P. 542 nH S.P. 305 nH S.P. 542 nH S.P. 305 nH S.P.		l I			Mica	Capacitor,	C1103
214 nH 146 nH 3.P. 305 nH 542 nH 542 nH 5.P. 542 nH 5.P. 5.P. 5.P. 5.P. 5.P.		S.P.		163 pF	Mica	Capacitor,	C1104
146 nH S.P. 305 nH S.P. 542 nH S.P. 305 nH S.P. 305 nH S.P.		S.P.		147 pF	Mica	Capacitor,	C1105
146 nH S.P. 305 nH S.P. 542 nH S.P. 305 nH S.P. 305 nH S.P.		S.P.		214 nH		Inductor	L1101
305 nH S.P. 542 nH S.P. 305 nH S.P. 305 nH		ı i				Inductor	L1102
542 nH 542 nH S.P. S.P. S.P. S.P.		I I				Inductor	L1103
305 nH S.P.		l I		542 nH		Inductor	L1104
		S.P.		542 nH		Inductor	L1105
		S.P.		305 nH		Inductor	L1106
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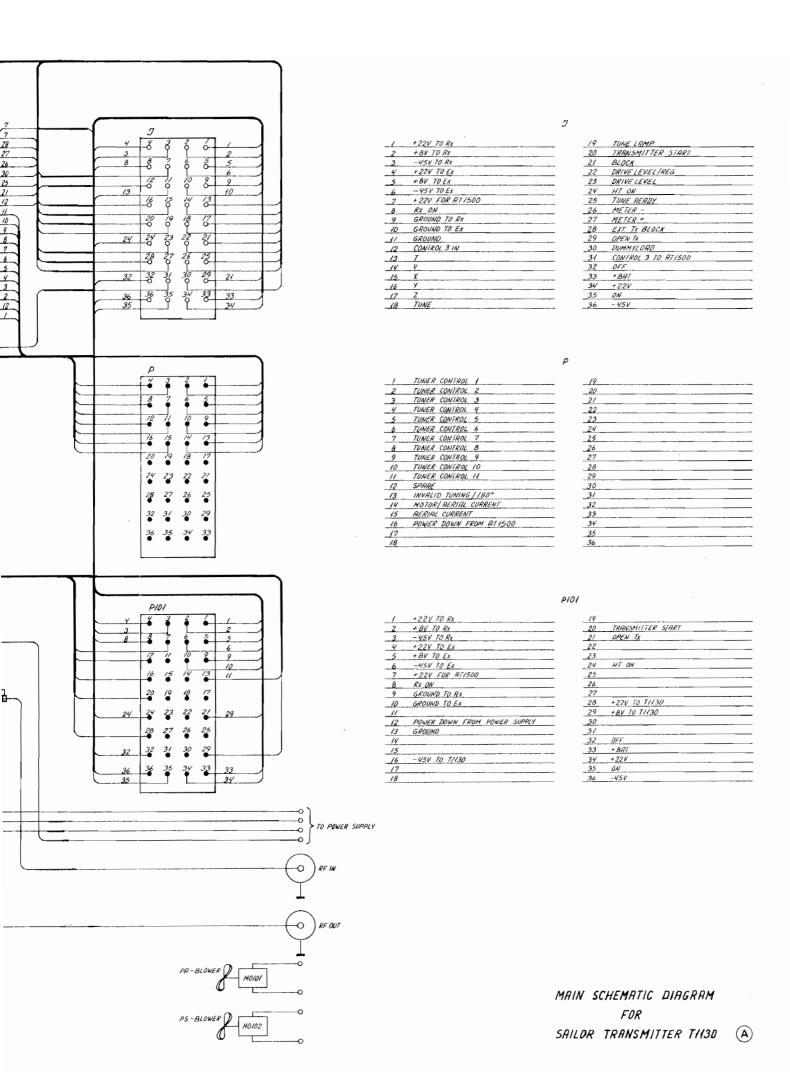
a	P.A. UNIT T1130				
Symbol	Desc	ription		Manufact.	
C1201	Capacitor polyester	100 nF	100V	ERO	MKT1822-410-01
C1202	Capacitor electrolytic	1 uF	50₹	ROE	EKI OOAA 110H
C1203	Capacitor electrolytic	1 uF	50 V	ROE	EKI OOAA 110H
C1204	Capacitor polyester	100 nF	100V	ERO	MKT1822-410-01
C1205	Capacitor polyester	100 nF	100 V	ERO	MKT 1822-4 10-0 1
C1206	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1207	Capacitor ceramic	150 pF 10%	25V	Ferroperm	9/0116.8
C1208	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1209	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1210	Capacitor polyester	100 nF	100V	Siemens	B32510-D1104-K
C1211	Capacitor polyester	100 nF	100 V	ERO:	MKT 1822-410-01
C1212	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1213	Capacitor polyester	100 nF	100 V	ERO	MKT 1822-4 10-0 1
C1214	Capacitor polypropylen	560 pF	630V	Philips	2222 458 6560 1
21215	Capacitor polypropylen	1100 pF	630V	Philips	2222 458 61102
C1216	Capacitor polypropylen	1100 pF	630V	Philips	2222 458 61102
C1217	Capacitor electrolytic	100 uF	16V	ROE	EKM OOCC 310D
1218	Capacitor electrolytic	100 uF	16V	ROE	EKM OOCC 310D
21219	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1220	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1221	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1222	Capacitor polyester	100 nF	100V	ERO	MKT1822-410-01
21223	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1224	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1225	Capacitor polyester	100 nF	100 V	ERO	MKT 1822-410-01
C1226	Capacitor polyester	100 nF	100 V	ERO	MKT 1822-410-01
1227	Capacitor polypropylen	33 nF 10%	250V	ERO	MKP 1841-333-25-5
C1228	Capacitor polypropylen	33 nF 10%	250V	ERO	MKP 1841-333-25-5
1229	Capacitor polypropylen	100 pF	630V	Philips	2222 458 61001
21230	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1231	Capacitor electrolytic	470 uF	101	ROE	EBOO GC 347C
01232	Capacitor mica	2.4 nF 10%	250 V	JAHRE	49.54/2400/10/250
21233	Capacitor mica	2.4 nF 10%	250V	JAHRE	49.54/2400/10/250
C1234	Capacitor mica	2.4 nF 10%	250V	JAHRE	49.54/2400/10/250
1235	Capacitor	Factory selected	i		
C1236	Capacitor polyester	100 nF	100V	ERO	MKT1822-410-01
C1237	Capacitor polyester	100 nF	100V	ERO	MKT 1822-410-01
C1238	Capacitor polypropylen	100 nF 10%	100 V	ERO	MKT 1841-410-01
C1239	Capacitor polypropylen	100 nF 10%	100V	ERO	MKT 1841-410-01
C1240	Capacitor polypropylen	100 nF 10%	100V	ERO	MKT 184 1-4 10-0 1

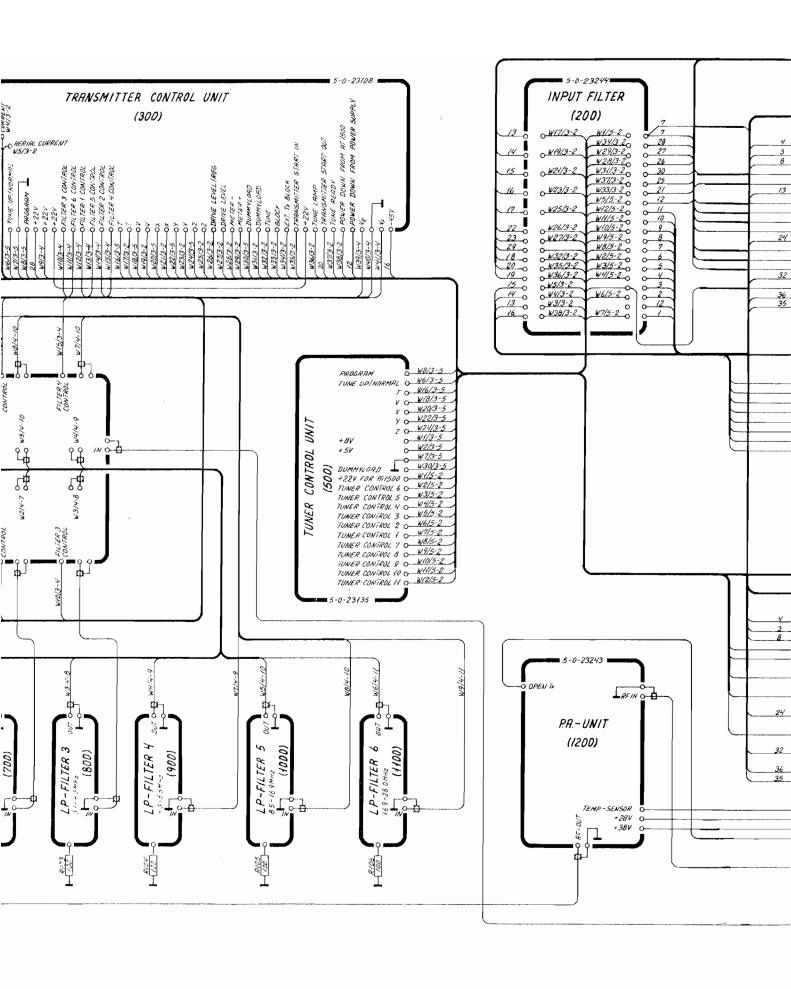
a		P.A.	UNIT	T1130		2/4
Symbol	De	escription			Manufact.	
C1241	Capacitor polypropylen	100 nF 1	10%	100V	ERO	MKT 1841-410-01
C1242	Capacitor polypropylen	100 nF 1	10%	100V	ERO	MKT 184 1-410-01
C1243	Capacitor polypropylen	100 nF 1	10%	100 V	ERO	MKT 184 1-4 10-0 1
C1244	Capacitor mica	270 pF 1	10%	50 0V	JAHRE	49.54/270/10/500
C1245	Capacitor mica	15 nF 1	10%	100 V	SOSHIN	DM2OC153KlicR
C1246	Capacitor mica	1 5 nF 1	10%	100V	SOSHIN	DM20C153K1ICR
C1247	Capacitor polypropylen	33 nF 1	10%	250 V	ERO	MKP 1841-333-25-5
C1248	Capacitor polypropylen	33 nF 1	10%	250 V	ERO	MKP 1841-333-15-5
C1249	Capacitor polypropylen	33 nF 1	10%	250 V	ERO	MKP 1841-333-15-5
C1250	Capacitor polypropylen	33 nF 1	0%	250V	ERO	MKP 1841-333-15-5
C1251	Capacitor polypropylen	33 nF 1	10%	250 V	ERO	MKP 1841-333-25-5
C1252	Capacitor polypropylen	33 nF 1	10%	25 0V	ERO	MKP 1841-333-25-5
C1253	Capacitor mica	2.4 nF 1	10%	250 V	JAHRE	49.54/2400/10/250
C1254	Capacitor mica	2.4 nF 1	0%	250 V	JAHRE	49.54/2400/10/250
C1255	Capacitor electrolytic	1 uF		50 V	ROE	EKIOOAA 1 10H
C1256	Capacitor electrolytic	10 uF		63V	ROE	EBOOCA210J
C1257	Capacitor electrolytic	10 uF		63V	ROE	EB00CA210J
R1201	Resistor	180 ohm	5%	0.33W	Philips	2322 211 13181
R1202	Resistor	10 ohm	5%	0.33W	Philips	2322 211 13109
R1203	Resistor	680 ohm	5%	0.33W	Philips	2322 211 13681
R1204	Resistor	680 ohm	5%	0.33W	Philips	2322 211 13681
R 1205	Resistor	820 ohm	5%	0.33W	Philips	2322 211 13821
R1206	Resistor .	820 ohm	5%	0.33W	Philips	2322 211 13821
R1207	Resistor	470 ohm	5%	0.33W	Philips	2322 211 13471
R1208	Resistor	470 ohm	5%	0.33W	Philips	2322 211 13471
R1209	Resistor	82 ohm	5%	2.5W	Philips	2322 192 38209
R 12 10	Resistor	82 ohm	5%	2.5W	Philips	2322 192 38209
R1211	Resistor	15 ohm	5%	0.33W	Philips	2322 211 13159
R1212	Resistor	22 ohm	5%	0.33W	Philips	2322 211 13229
R 1213	Resistor	1.78kohm	1%	0.25W	Philips	2322 150 51782
R1214	Resistor	2.67kohm	1%	0.25W	Philips	2322 150 52672
R1215	Resistor	15kohm	5%	0.33W	Philips	2322 211 13153
R1216	Resistor	1.8kohm	5%	0.33W	Philips	2322 211 13182
R1217	Resistor	1.8kohm	5%	0.5W	Philips	2322 212 13182
R1218	Resistor	3.3kohm	5%	0.33W	Philips	2322 211 13332
R1219	Resistor	10 ohm	5%	0.33W	Philips	2322 211 13109
R1220	Resistor preset	22 ohm			A.B.	HC10P-22 ohm
R1221	Resistor	2.2kohm	5%	2.5W	Philips	2322 192 32202
R1222	Resistor	22 ohm	5%	0.33W	Philips	2322 211 13229
R 1224	Resistor	8.2 ohm	5%	0.33W	Philips	2322 211 13828

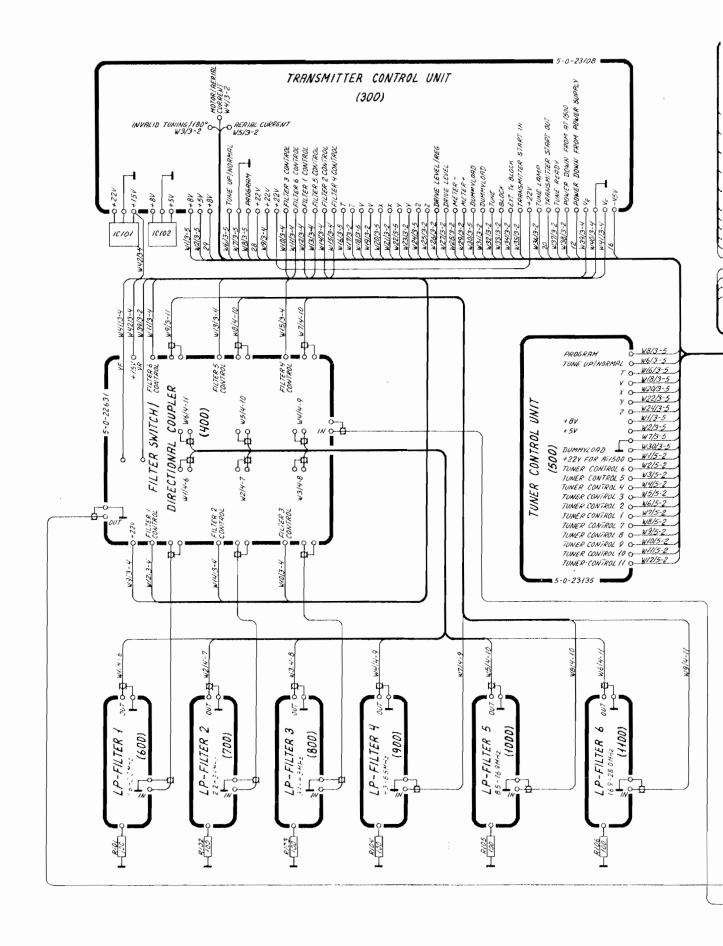
a		P.A. UNIT	T1130			3/4
Symbol		Description			Manufact.	
R1225	Resistor	8.2	ohm 5%	0.33W	Philips	2322 211 13828
R1226	Resistor	2.2	ohm 5%	0.33W	Philips	2322 211 13228
R1227	Resistor	2.2	ohm 5%	0.33W	Philips	2322 211 13228
R1228	Resistor	18	ohm 5%	0.33W	Philips	2322 211 13189
R1229	Resistor	18	ohm 5%	0.33W	Philips	2322 211 13189
R1230	Resistor	33	ohm 5%	0.33W	Philips	2322 211 13339
R1231	Resistor	33	ohm 5%	0.33W	Philips	2322 211 13339
R1232	Resistor preset	5	ohm 10%	•	A.B.	TYP 115-Q8-5 ohm
R1233	Resistor	560	ohm 5%	4W	Philips	2322 330 22561
R1234	Resistor	22	ohm 5%	0.33W	Philips	2322 211 13229
R1235	Resistor					
R1236	Resistor	6.8	ohm 5%	2.5W	Philips	2322 192 36808
R1237	Resistor	6.8	ohm 5%	2.5W	Philips	2322 192 36808
R1238	Resistor	6.8	ohm 5%	2.5W	Philips	2322 192 36808
R1239	Resistor	6.8	ohm 5%	2.5W	Philips	2322 192 36808
R1240	Resistor	2.7	ohm 5%	2.5W	Philips	2322 192 32708
R1241	Resistor	2.7	ohm 5%	2.5W	Philips	2322 192 32708
R1242	Resistor	2.7	ohm 5%	2.5W	Philips	2322 192 32708
R1243	Resistor	2.7	ohm 5%	2.5W	Philips	2322 192 32708
R1244	Resistor	10	ohm 5%	2.5W	Philips	2322 192 31009
R1245	Resistor	10	ohm 5%	2.5W	Philips	2322 192 31009
R1246	Resistor	10	ohm 5%	2.5W	Philips	2322 192 31009
R1247	Resistor	10	ohm 5%	2.5W	Philips	2322 192 31009
	1					
FP 120 1	Ferroxcube bead				Philips	4322 020 34400
FP 1202	Ferroxcube bead				Philips	4322 020 34400
FP 1203	Ferroxcube bead				Philips	4322 020 34400
FP 1204	Ferroxcube bead				Philips	4322 020 34400
FP 1205	Ferroxcube bead				Philips	4322 020 34400
FP 1206	Ferroxcube bead				Philips	4322 020 34400
FP 1207	Ferroxcube bead				Philips	4322 020 34400
FP1208	Ferroxcube bead				Philips	4322 020 34400
11 1200	Torroxed bead				lilitips	1322 020 34400
L1201	Coil	2.2	uH 10%		Ferroperm	1582
L1202	Coil				S.P.	TL067
L1203	Coil				S.P.	TL067
L1204	Coil				S.P.	TLO67
L1205	Coil				S.P.	TL067
L1206	Coil				S.P.	TLO67
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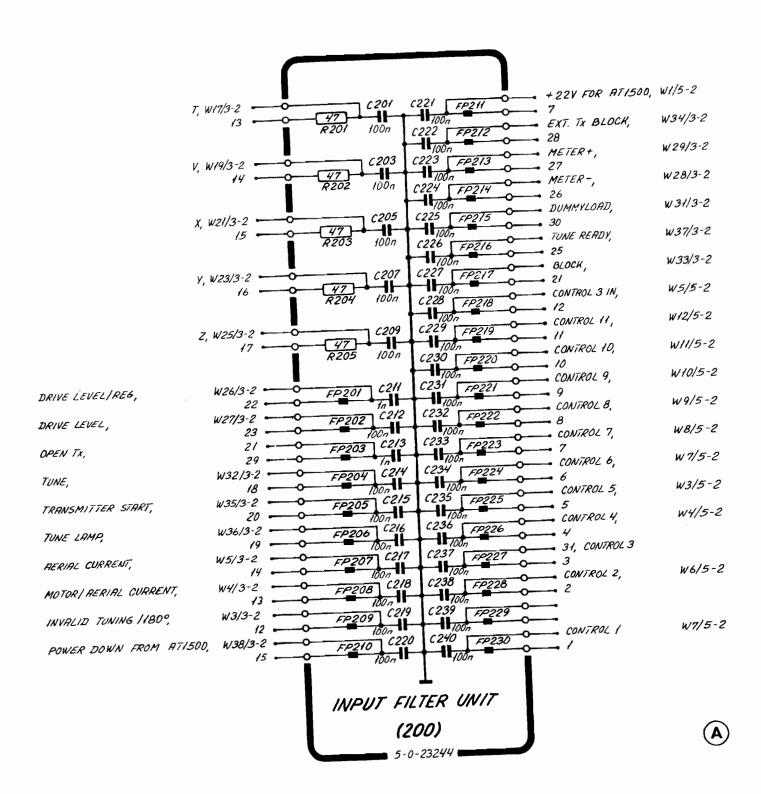
а	P.A. UNIT T1130		4/4
Symbol	Description	Manufact.	
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L1207	Coil	S.P.	TL306
L1208	Coil	S.P.	TL306
L1209	Coil	S.P.	TL305
L1210	Coil	S.P.	TL305
L1211	Coil	S.P.	TL304
L1212	Coil	S.P.	TL304
L1213	Coil	S.P.	TL301
L1214	Coil	S.P.	TL301
TR1201	Transformer	S.P.	TL308
TR1202	Transformer	S.P.	TL307
TR1203	Transformer	S.P.	TL303
TR1204	Transformer	S.P.	TL302
TR1205	Transformer	S.P.	TL300
TR1206	Transformer	S.P.	TL299
			122,5
		j	
T1201	Transistor	Motorola	BC328
T1202	Transistor	Motorola	BC548
T1203	Transistor	Motorola	BC548
T1204	Transistor	Motorola	BC548
T1205	Transistor	Motorola	BC548
T1206	Transistor	Motorola	2N3553
T1207	Transistor	Motorola	2N3553
T1208	Transistor	Motorola	2N5 190
T1209	Transistor	Motorola	2N5 190
T1210			
T1211			1
T1212	Transistor	Motorola	MRF426
T1213	Transistor	Motorola	MRF426
T1214	Transistor	Thomson	TH430
T1215	Transistor	Thomson	TH430
D1201	Diode	Philips	BAV21

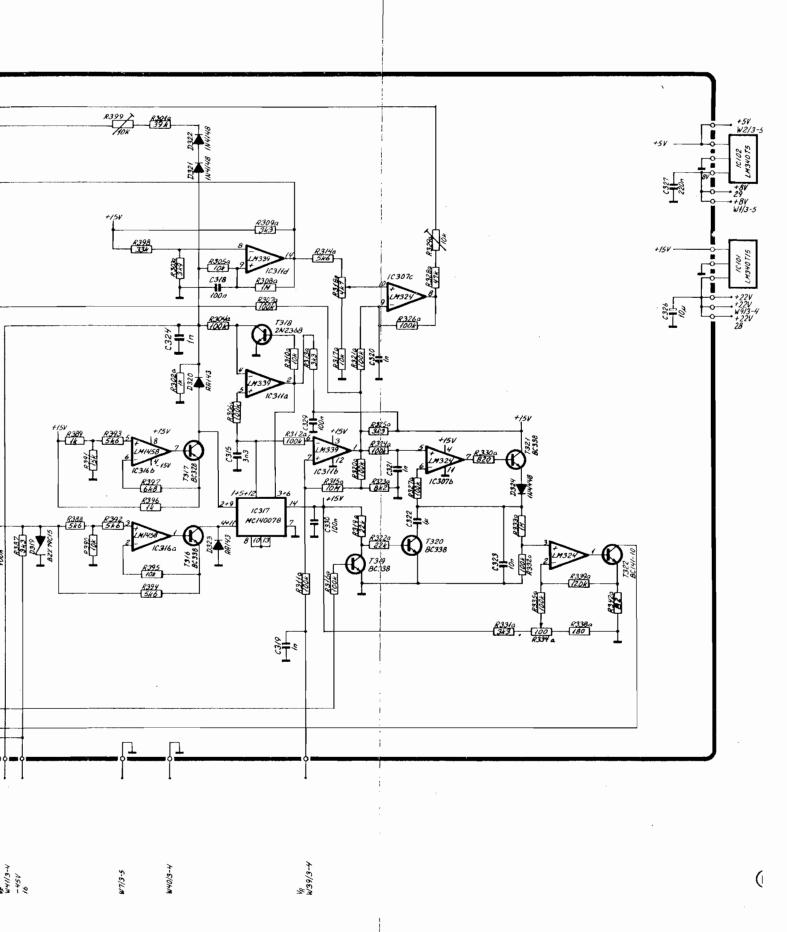
a	TEMPERATURE	PROTECTION UNIT T1	130		1/
Symbol	D	escription ——		Manufact.	
C1301	Capacitor polyester	100 nF <u>+</u> 10%		Siemens	B32510-D1104-K
21302	Capacitor polyester	100 nF <u>+</u> 10%		Siemens	B325 10-D1 104-K
1303	Capacitor polyester	100 nF <u>+</u> 10%		Siemens	B325 10-D1 104-K
C1304	Capacitor polyester	100 nF <u>+</u> 10%		Siemens	B32510-D1104-K
R1301	Resistor	18.2 kohm <u>+</u> 1%	0.4W	Philips	2322 151 51823
R 1302	Resistor	18.2 kohm <u>+</u> 1%	0.4W	Philips	2322 151 51823
R1303	Resistor	191 ohm <u>+</u> 1%	0.4W	Philips	2322 151 51911
R1304	Resistor	1.65 kohm <u>+</u> 1%	0.4W	Philips	2322 151 51652
R1305	Preset potentiometer	22 kohm <u>+</u> 10%		AB ·	HC 10-22k 10%
R 1306	Resistor	680 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13684
R1307	Resistor	680 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13684
R 1308	Resistor	15 kohm <u>+</u> 1%	0.4W	Philips	2322 151 51503
R1309	Resistor	33 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13333
R1310	Resistor	33 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13333
R1311	Resistor	33 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13333
R1312	Resistor	33 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13333
R1313	Resistor	6.8 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13682
R 13 14	Resistor	22 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13229
R1315	Resistor	6.8 kohm <u>+</u> 5%	0.33W	Philips	2322 211 13682
R1316	Resistor	22 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13229
₹1317	Resistor	22 ohm <u>+</u> 5%	0.33W	Philips	2322 211 13229
ľ1301	Transistor			Philips	BC639
1302	Transistor		i	Philips	BC639
1303	Transistor			Philips	BC639
1304	Transistor			Philips	BC640
1305	Transistor			Philips	BC639
C1301	Integrated circuit			National	LM358
			÷		

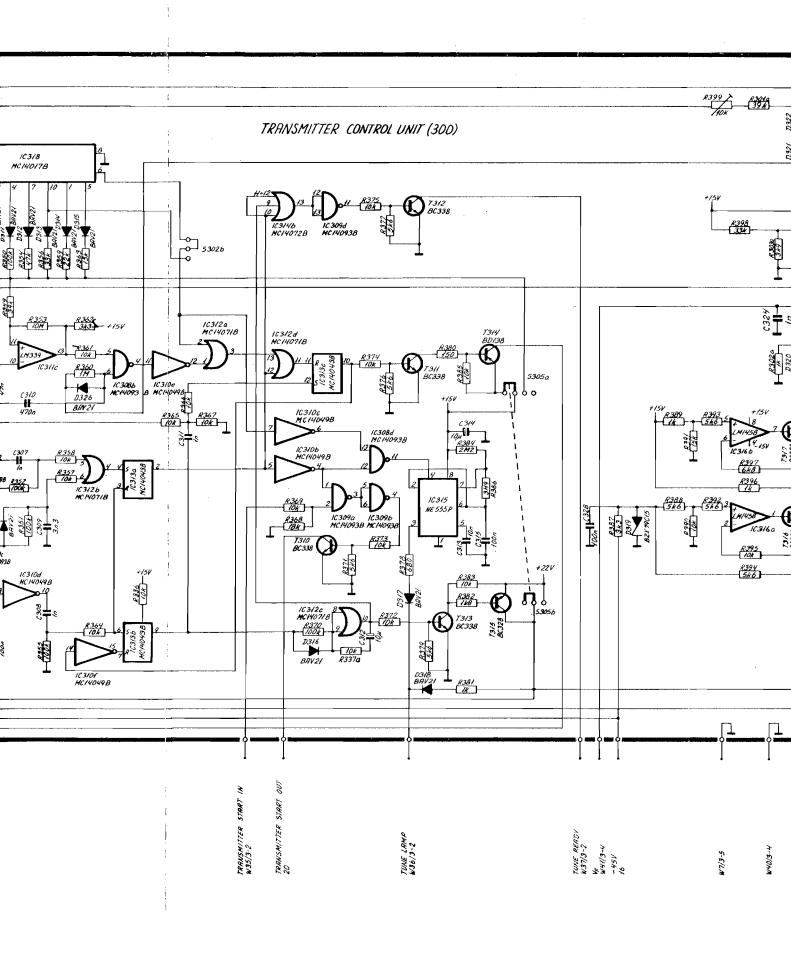


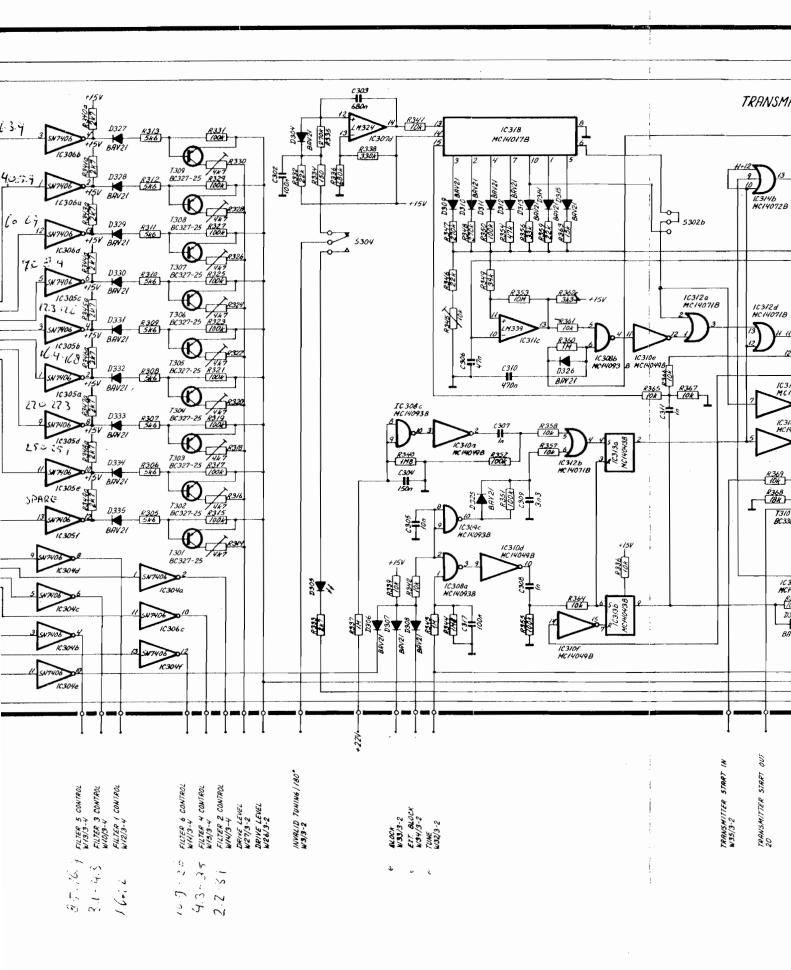


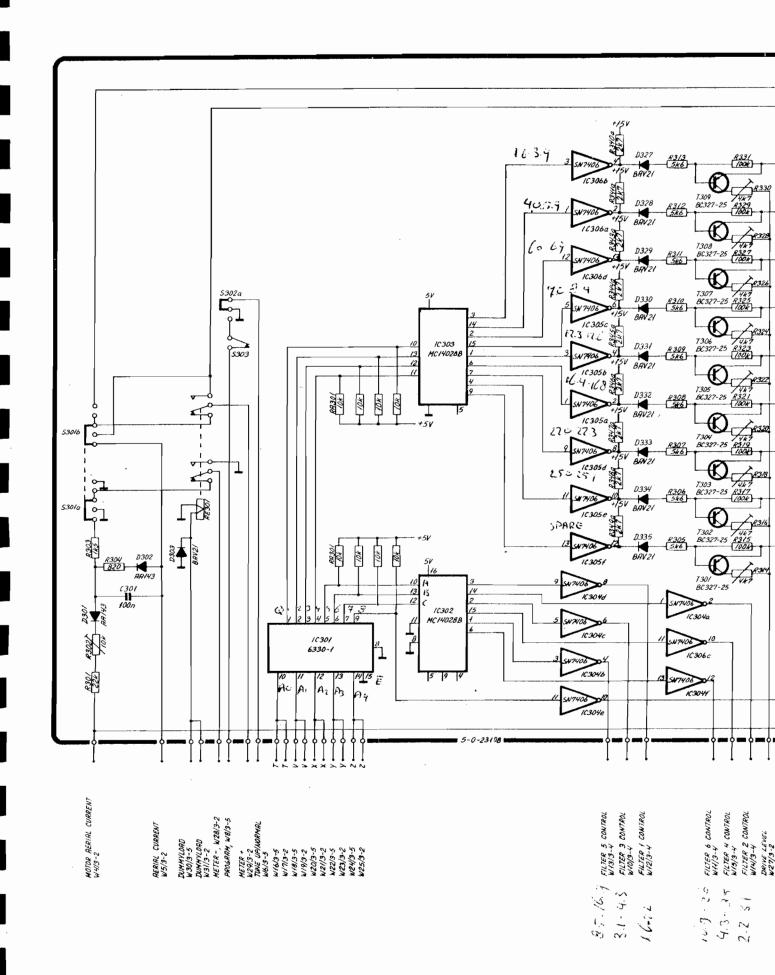


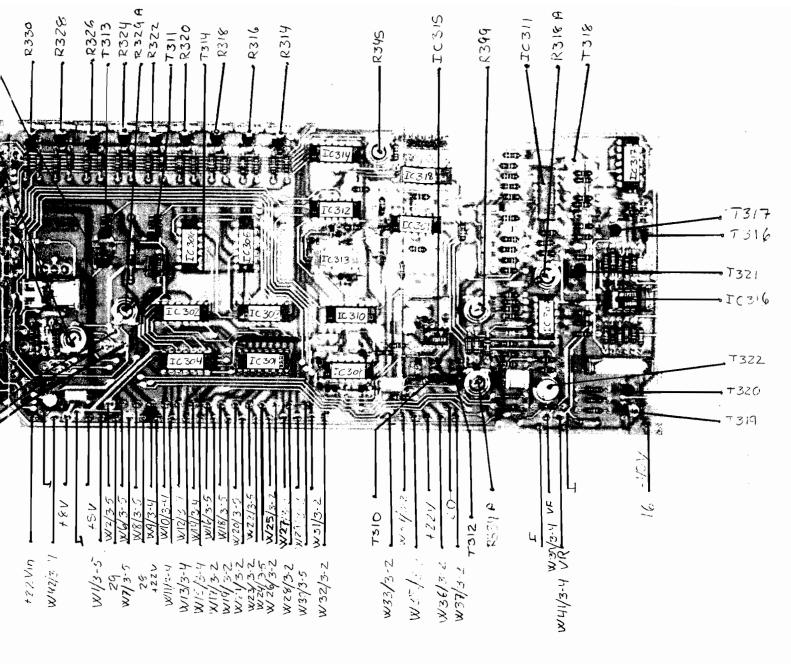


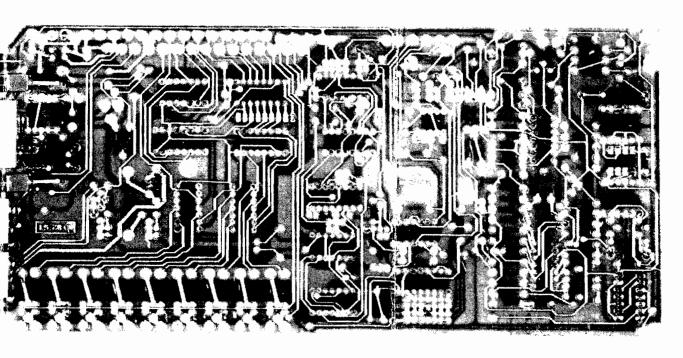


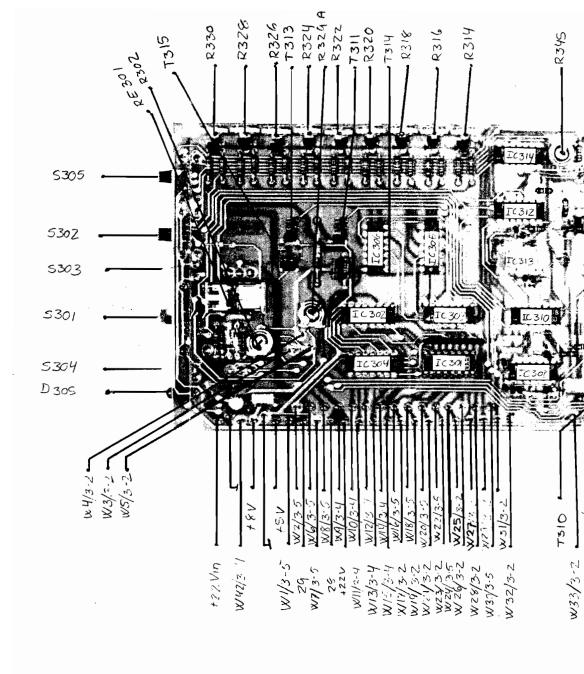


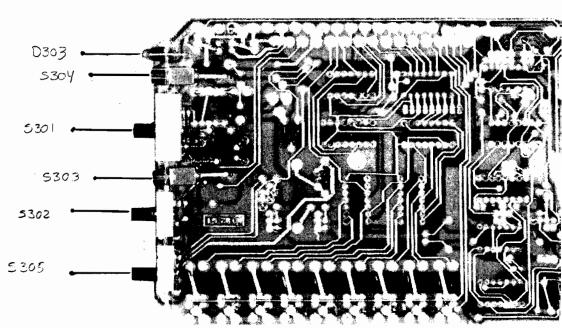


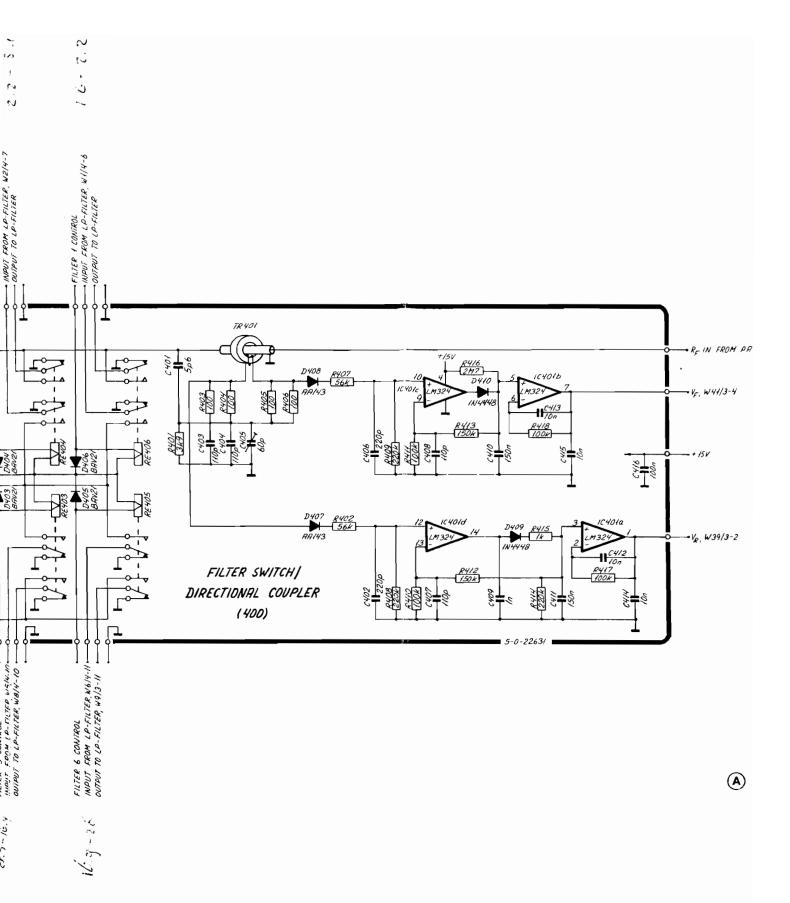


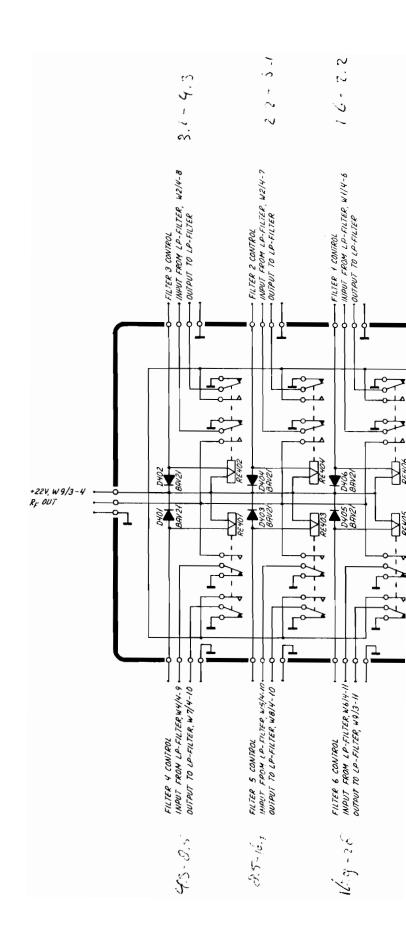












W4/4-9

w5/4-1a

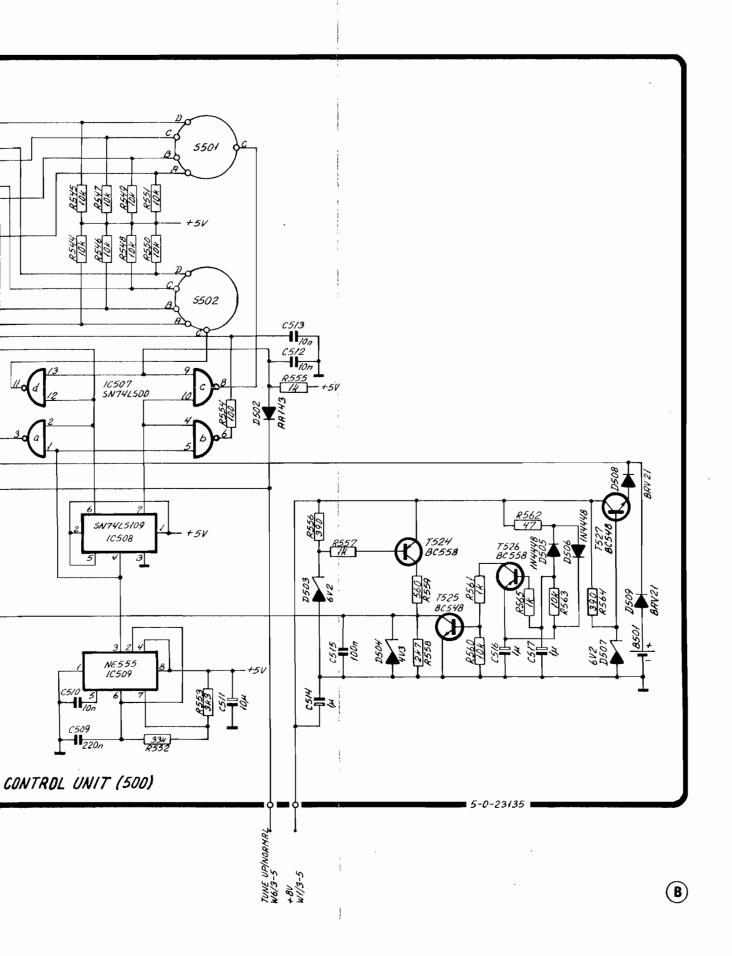
w3/4-8 w2/4-7

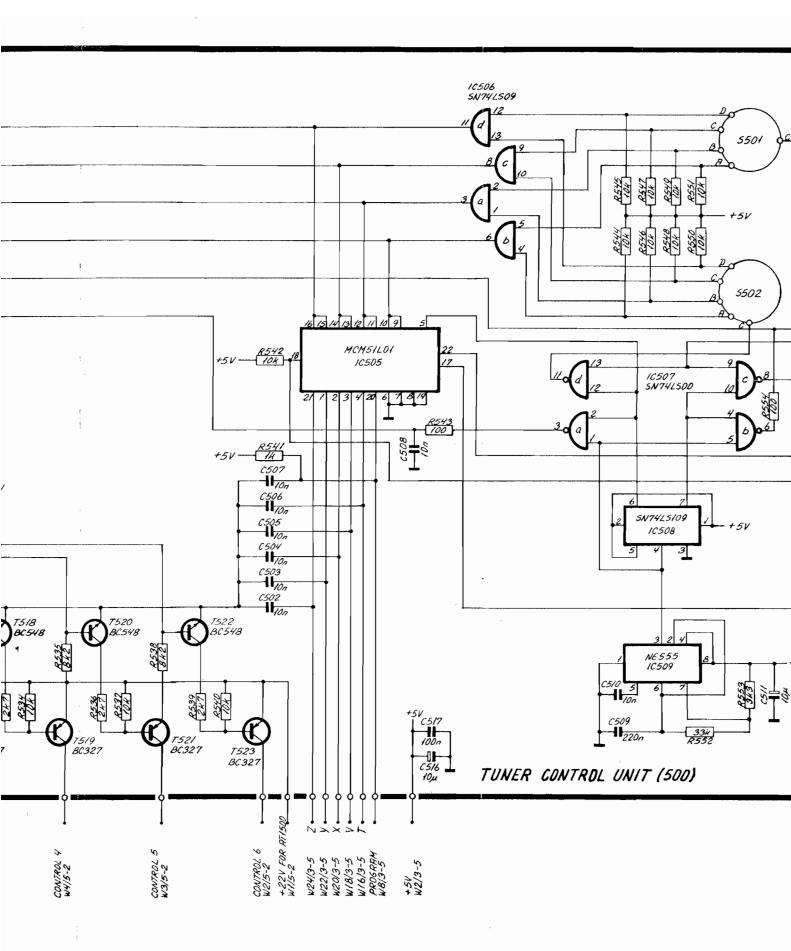
FILTER SWITCH/DIRECTIONAL COUPLER

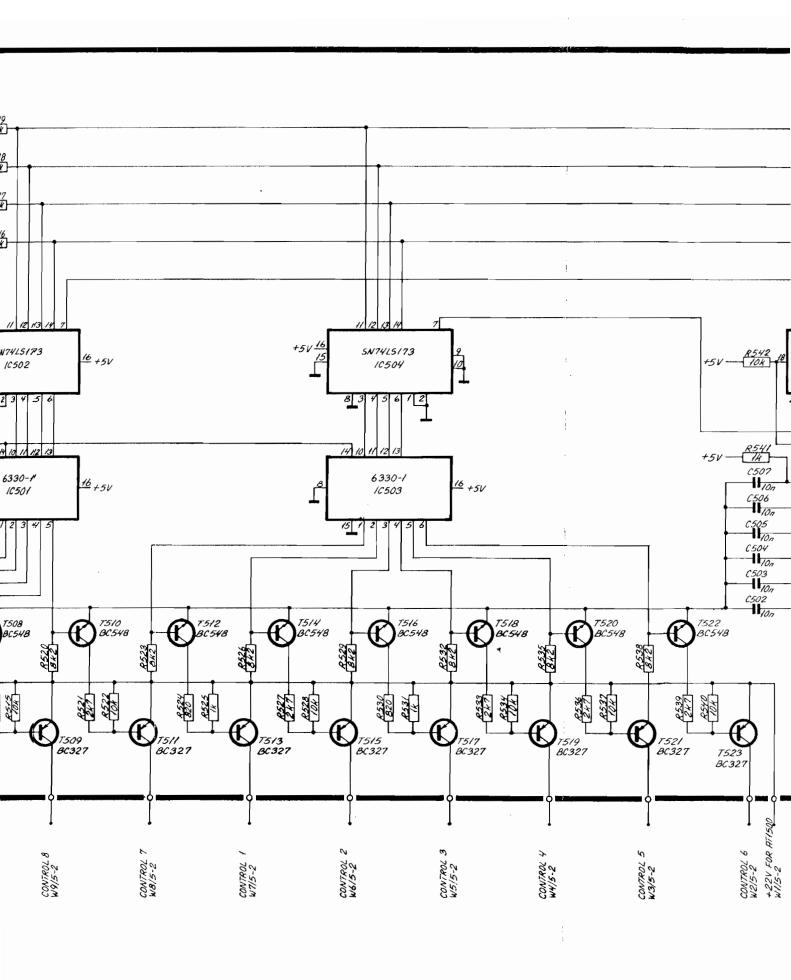
C 405

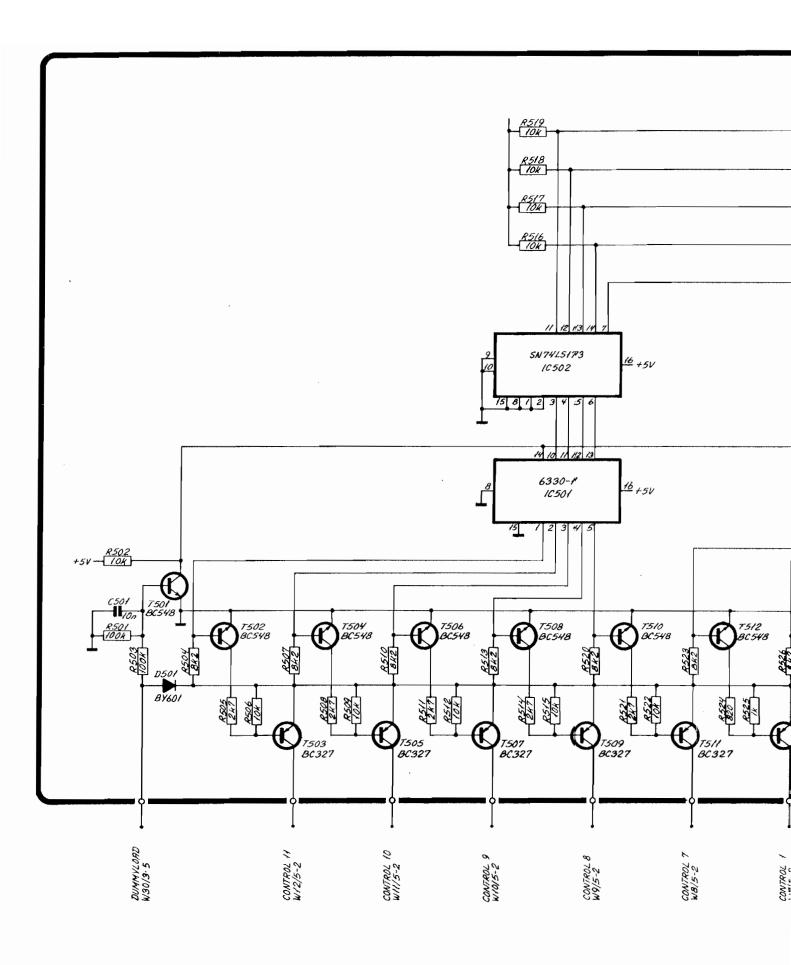
D408

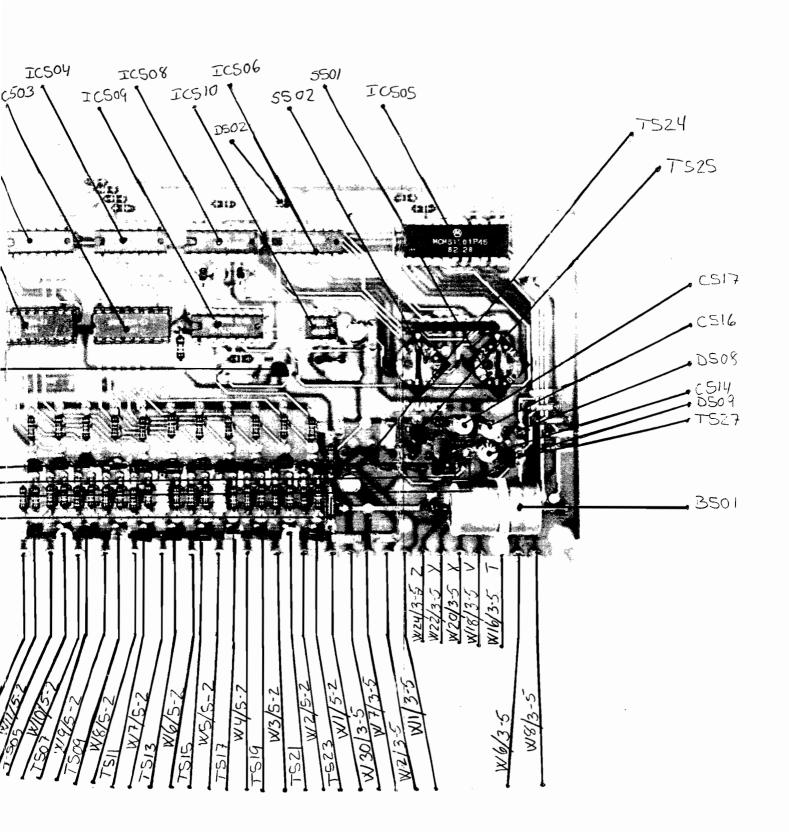
MODULE 400

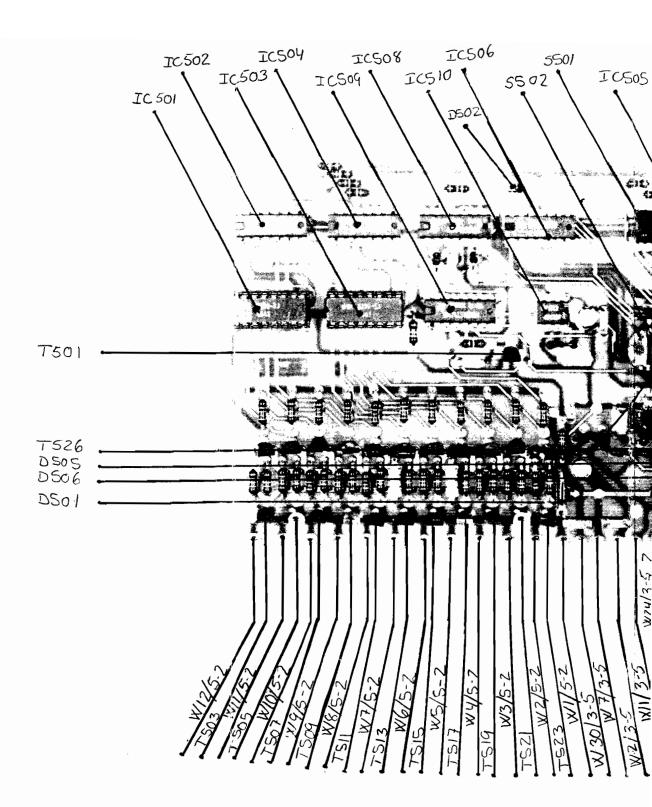


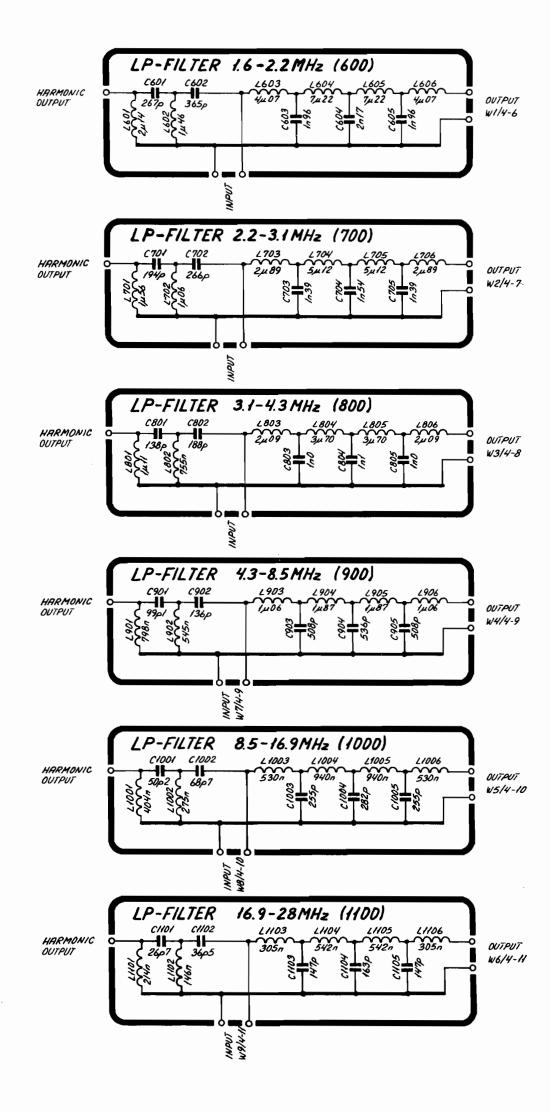


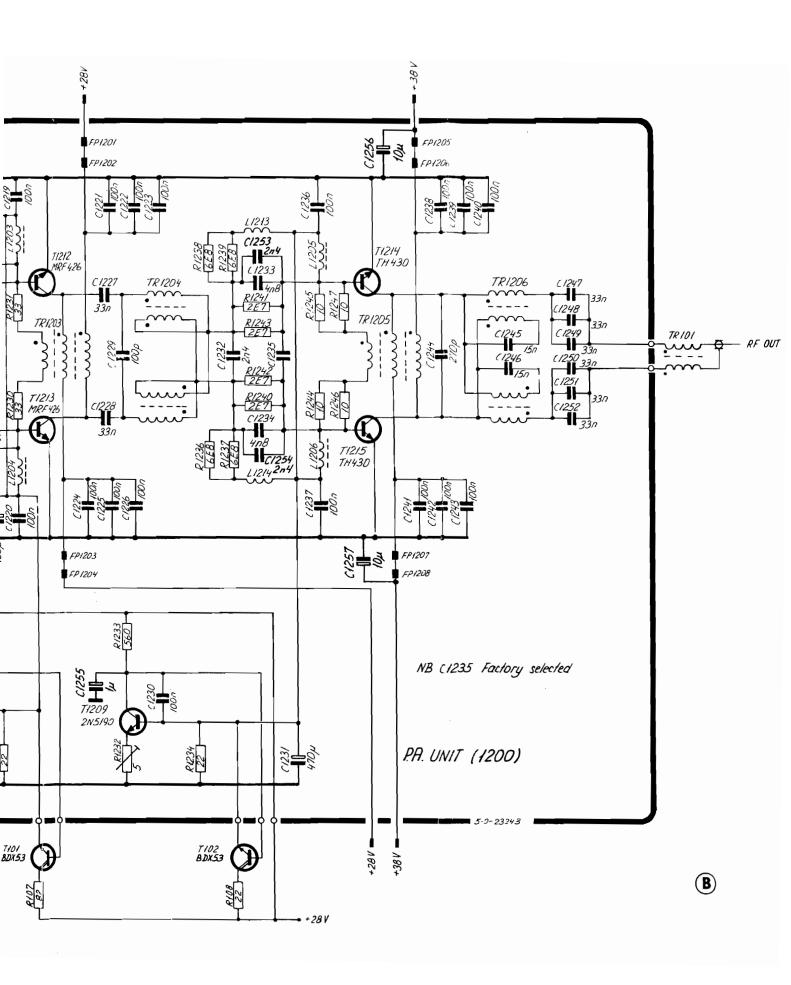


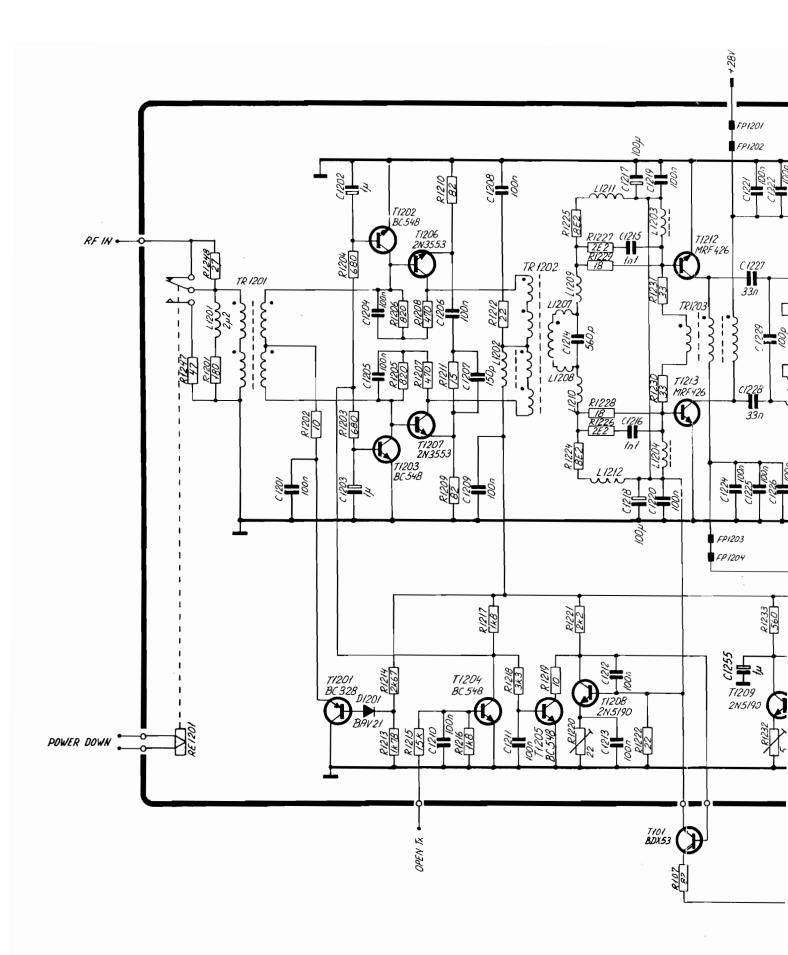


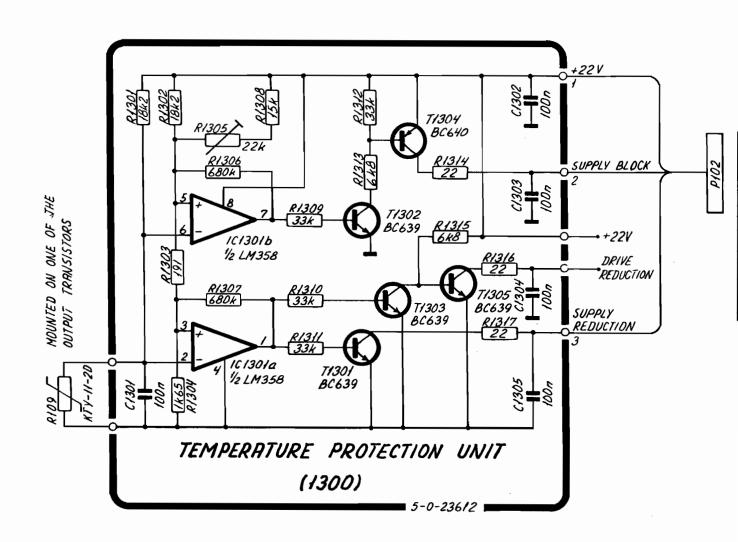


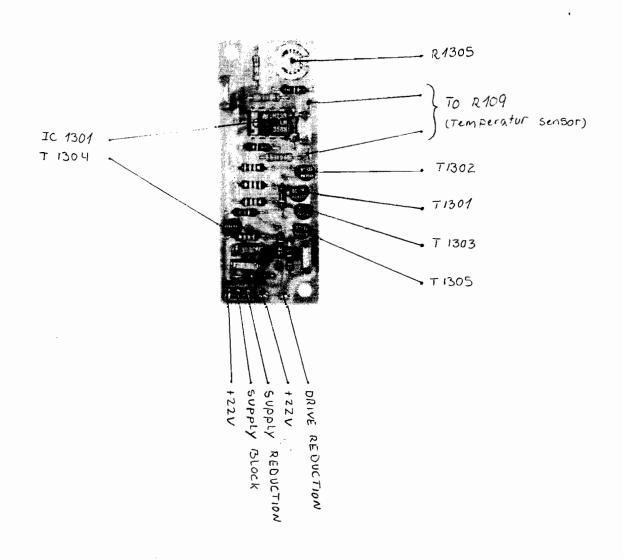












TEMPERATURE PROTECTION UNIT