

**technical manual ESCOM 500**

*version 2.6*

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Table of contents**AUTOMATICAL ADJUSTMENTS**

1. Antenna input level interpretation	1
2. Bandfilter loss compensation	1
3. Gain VHF preamp compensation	2
4. Analog S-meter adjustment	3

**ESCOM 500**

Top view	(0574-4401)	4
Bottom view	(0574-4402)	5
Rear panel connection list	(0574-5701)	6
Signal flow ESCOM 500	(0574-5501)	7
Signal flow TCO 0574	(0574-5502)	8
Signal flow SSY 0574	(0574-5503)	9
Signal flow IFH 0574	(0574-5504)	10
Signal flow CSY 0574	(0574-5505)	11
Signal flow MSX 0574	(0574-5506)	12
Signal flow VCB 0574	(0574-5507)	13
Signal flow RFU 0574	(0574-5508)	14
Signal flow UHF/UHG 0574	(0574-5509)	15
Signal flow ULO 0574	(0574-5510)	16
Signal flow USY 0574	(0574-5511)	17
Signal flow LFA 0574	(0574-5512)	18
Signal flow AFL 0574	(0574-5513)	19
Signal flow IFL 0574	(0574-5514)	20

**RFU 0574**

Circuit diagram	(0574-2102/1 - 2102/2)	21
Formation of components	(0574-2202)	23
Connector pin list	(0574-2702)	24

**MSX 0574**

Circuit diagram	(0574-2104/1 - 2104/2)	25
Formation of components	(0574-2204)	27
Connector pin list	(0574-2704)	28

**SSY 0574**

Circuit diagram	(0574-2105/1 - 2105/2)	29
Formation of components	(0574-2205)	31
Connector pin list	(0574-2705)	32

<b>IFL 0574</b>		
Circuit diagram	(0574-2106/1 - 2106/6)	33
Formation of components	(0574-2206)	39
Connector pin list	(0574-2706)	40
<b>IFH 0574</b>		
Circuit diagram	(0574-2107/1 - 2107/2)	41
Formation of components	(0574-2207)	43
Connector pin list	(0574-2707)	44
<b>AFL 0574</b>		
Circuit diagram	(0574-2108/1 - 2108/2)	45
Formation of components	(0574-2208)	47
Connector pin list	(0574-2708)	48
<b>LFA 0574</b>		
Circuit diagram	(0574-2109/1 - 2109/2)	49
Formation of components	(0574-2209)	51
Connector pin list	(0574-2709)	52
<b>VRC 0574</b>		
Circuit diagram	(0574-2110)	53
Formation of components	(0574-2210)	54
Connector pin list	(0574-2710)	55
<b>KBD 0574</b>		
Circuit diagram	(0574-2113/1 - 2113/2)	56
Formation of components	(0574-2213)	58
Connector pin list	(0574-2713)	59
<b>IOS 0574</b>		
Circuit diagram	(0574-2114/1 - 2114/7)	61
Formation of components	(0574-2214/1 - 2214/2)	68
Connector pin list	(0574-2714)	70
<b>TCO 0574</b>		
Circuit diagram	(0574-2115)	74
Formation of components	(0574-2215)	75
Connector pin list	(0574-2715)	76
<b>LPF 0574</b>		
Circuit diagram	(0574-2117)	77
Formation of components	(0574-2217)	78
<b>IFF 0574</b>		
Circuit diagram	(0574-2122)	79
Formation of components	(0574-2222)	80
<b>USY 0574</b>		
Circuit diagram	(0574-2123)	81
Formation of components	(0574-2223)	82
Connector pin list	(0574-2723)	83

ULO 0574		
Circuit diagram	(0574-2124/1 - 2124/2)	84
Formation of components	(0574-2224)	86
VCO 0574		
Circuit diagram	(0574-2125)	87
Formation of components	(0574-2225)	88
UHF 0574 (untill serialnumber 529401)		
Circuit diagram	(0574-2126)	89
Formation of components	(0574-2226)	90
UHG 0574 (serialnumbers above 529401)		
Circuit diagram	(0574-2139/1-2139/2)	91
Formation of components	(0574-2239/1-2239/2)	93
KEY 0574		
Circuit diagram	(0574-2127)	95
Formation of components	(0574-2227)	96
CN 0574		
Circuit diagram	(0574-2128/1 - 2128/2)	97
Formation of components	(0574-2228)	99
Connector pin list	(0574-2728)	100
VCB 0574		
Circuit diagram	(0574-2130)	101
Formation of components	(0574-2230)	102
Connector pin list	(0574-2730)	103
CSY 0574		
Circuit diagram	(0574-2133/1 - 2133/3)	104
Formation of components	(0574-2233)	107
Connector pin list	(0574-2733)	108
SIO 0574		
Circuit diagram	(0574-2134)	109
Formation of components	(0574-2234)	110
MB 0574		
Formation of components	(0574-2235)	111
VRF 0574		
Circuit diagram	(0574-2138)	112
Formation of components	(0574-2238)	113
CPU 0474		
Circuit diagram	(0474-2125)	114
Formation of components	(0474-2225)	115



AUTOMATICAL ADJUSTMENTS

1. Antenna input level interpretation.

- a. Adjust the receiver at 10 MHz, USB.
- b. Connect a generator to the antenna input.
- c. Adjust the generator at 10001.5 kHz and -10 dBu.
- d. Program the signal level step of the generator at 2.5 dB.
- e. Press [SHIFT] and [OFF/AUTO] (AGC).
- f. The display shows the following warning :  
ADJ PROC: PRESS EXEC
- g. To start the procedure press [CALIBRATE].
- h. The receiver starts internal measurements. Each measuring takes about 2 seconds. A beep will indicate the end of each measurement, whereafter the output of the generator must be incremented with 2.5 dB. The whole procedure consists of 48 measurements.

2. Bandfilter loss compensation.

- a. Adjust the receiver at 10 MHz, USB and 500 Hz bandwidth.
- b. Connect a generator to the antenna input.
- c. Adjust the generator at 10001.5 kHz and 40 dBu. Make sure that the signal passes the narrow bandfilter in a proper way.
- d. Press [SHIFT] and [BANDWIDTH UP].
- e. The display shows the following warning :  
ADJ PROC: PRESS EXEC
- f. To start the procedure press [CALIBRATE].
- g. The procedure runs automatically and takes about 20 seconds.

3. Gain VHF preamp compensation.

- a. Adjust the receiver at 200 MHz, FM.
- b. Connect a generator to the antenna input.
- c. Adjust the generator at 200 MHz and 40 dBu.
- d. Press [SHIFT] an [VHF].
- e. The display shows the following warning :  
ADJ PROC: PRESS EXEC
- f. To start the procedure press [CALIBRATE].
- g. The procedure runs automatically and takes about 2 seconds.

These three procedures have to be carried out sequentially. Procedure 3, for example, can only be carried out after the full execution of procedure 1 and 2.



4. Analog S-meter adjustment.

- a. Press [SHIFT] and [MANUAL] (AGC)
- b. The display shows the following warning :

ADJ PROC: PRESS EXEC

- c. Press [CALIBR]
- d. The display shows :

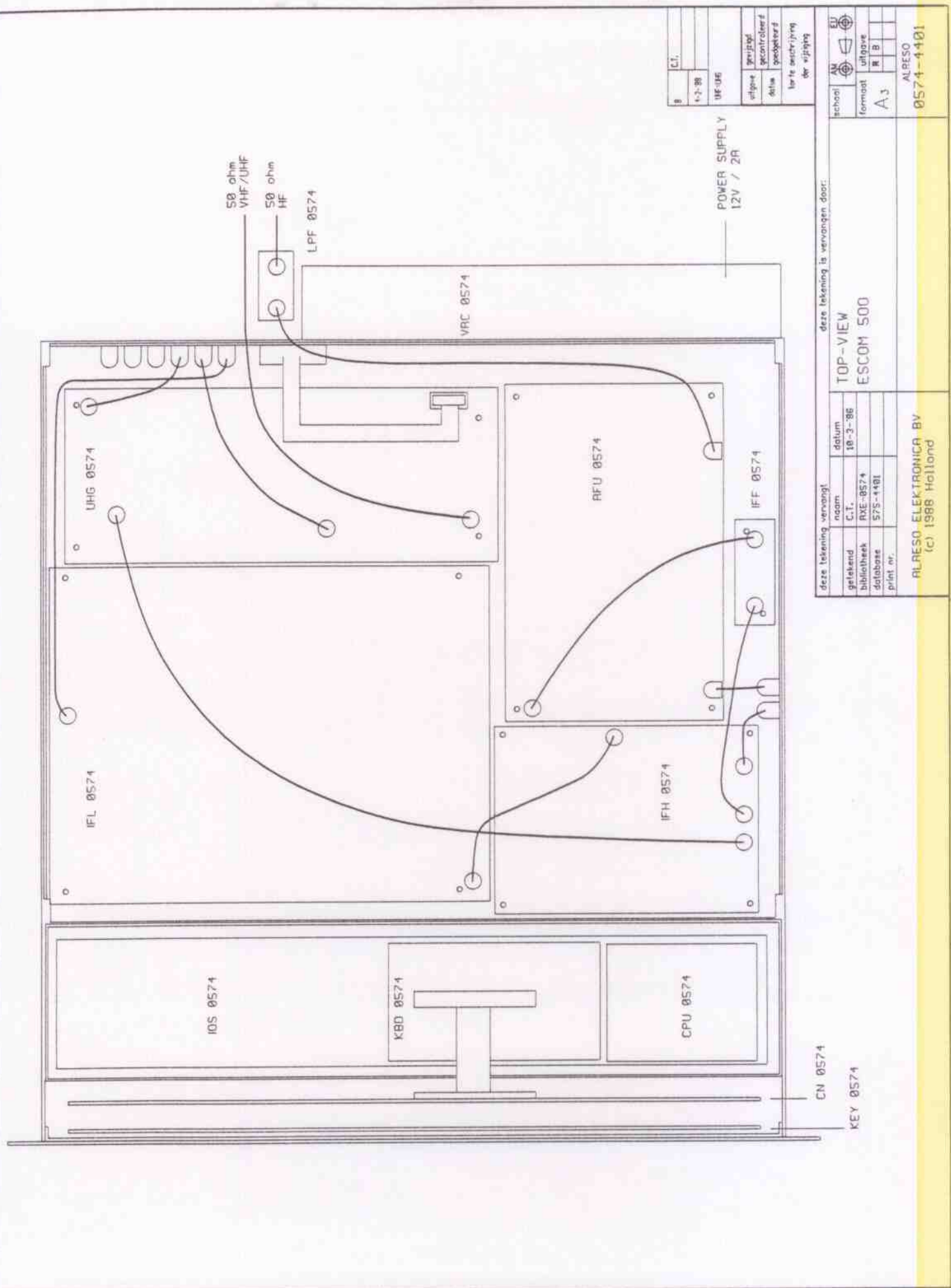
ADJUST IND AT MAX

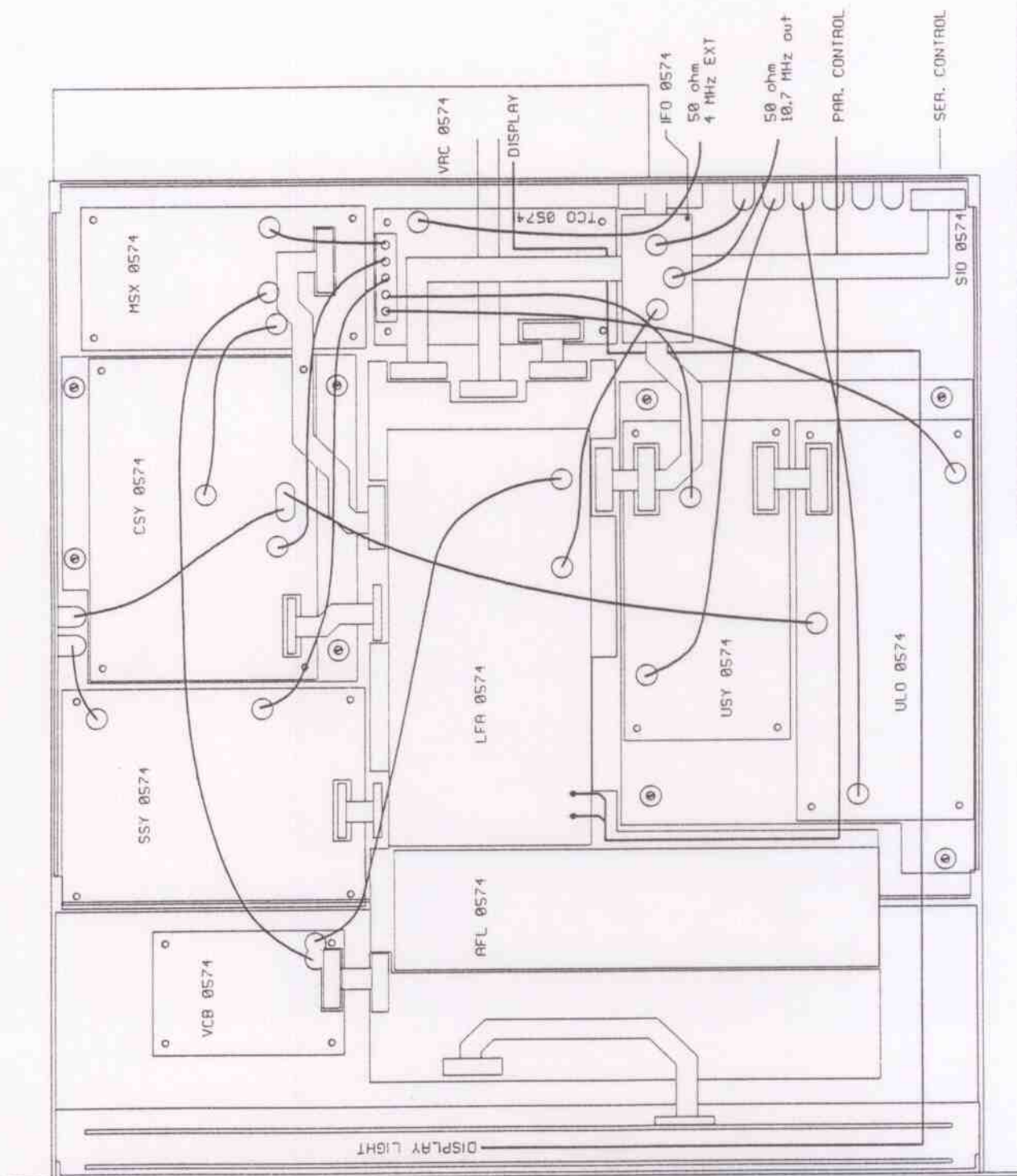
If the S-meter is not at the end of the scale, adjust the indicator at the end of the scale by turning P5 on CN 0574. (see drawing nr: 0574-2228)

- e. Press [PAUSE]
- f. The display shows :

SET IND AT -10 dBu

- g. The indicator of the S-meter can be moved with the help of the UP and DOWN keys (step mode control) until the S-meter indicates -10 dBu.
- h. Press [PAUSE]. The adjusted value will be stored and the display shows the next point to adjust. Adjust again as described in g.





8	C.I.
1-2-88	Modification
uitvoering	gepland
afwa	gecontroleerd
keuze	gepland
keuze	gepland

deze tekening is vervaagd door:	
geleend	datum
C.I.	11-3-'86
bibliotheek	RXE-0574
database	574-1482
print nr.	
deze tekening is vervaagd door:	
BOTTOM VIEW	
ESCOM 500	
ALPESO ELEKTRONICA BV	
(c) 1988 Holland	

school	EU
formaat	uitgevoerd
A3	B
ALPESO	
0574-4402	

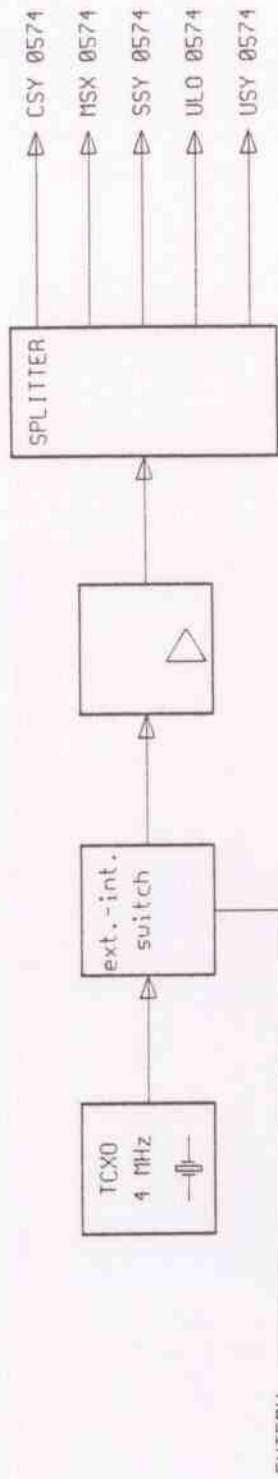
## REAR PANEL

## ORIGIN/DESTINATION

01	NC		
02	CURR LOOP RxD (+)	IOS 0574	P122
03	NC		
04	CURR LOOP RxD (-)	IOS 0574	P123
05	NC		
06	CURR LOOP TxD (+)	IOS 0574	P124
07	NC		
08	CURR LOOP TxD (-)	IOS 0574	P125
09	NC		
10	SQUELCH OPEN OUTPUT	LFA 0574	P27
11	NC		
12	TIMER	IOS 0574	P99
13	MUTE	RFU 0574	P19
14	NC		
15	NC		
16	EXT SPEAKER OUTPUT (X)	FP2 0574	P08
17	NC		
18	EXT SPEAKER OUTPUT (Y)	FP2 0574	P19
19	+5 VOLT		
20	+9 VOLT		



5x TX0 ref. OUTPUT  
 4 MHz  
 -12 dBm



B	C.T.
26.10.88	
SPLITTER	
slig.	gecijferd
datum	gecontr.
	gecheck.
	kaart
	omschrijving
	der-aanwijzing

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dataclass	574-5582.SCH	
print nummer	H.V.T.	

SIGNALFLOW  
 TCO 0574  
 ESCOH 500

school	1:1
formaat	A3
uitgave	X B
ALRESO	
0574-5582	

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