

technical manual ESCOM 500

version 2.6

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datum : 09-20-1988

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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 :

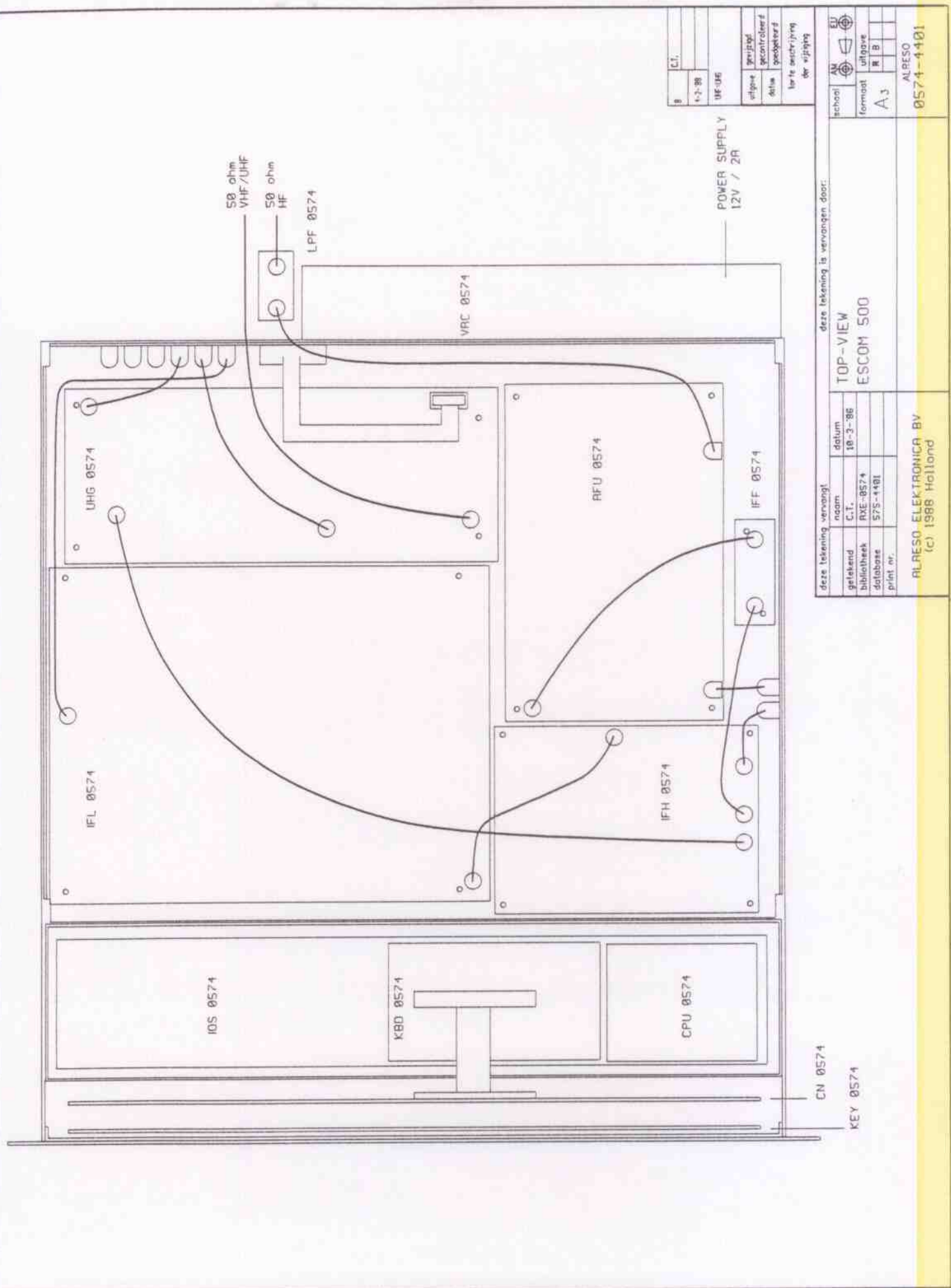
ADJUST IND AT MAX

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.



B	C.I.	
1-3-88	UK-06	
afgeve	gevestigd	
datum	gecontroleerd	
hante beschrijving	gecheckteerd	
der wijziging		

deze tekening vervangt

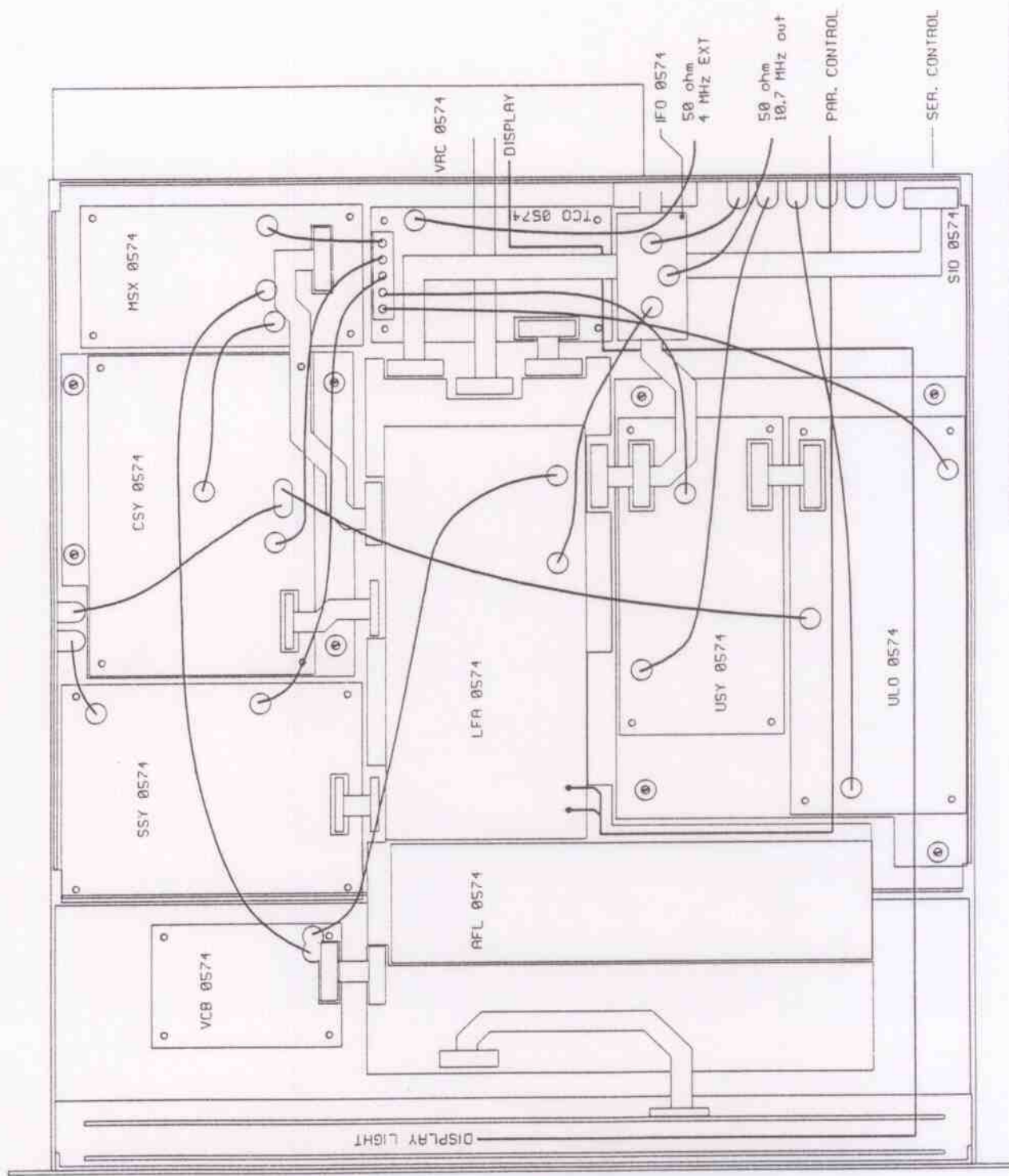
getekend	C.I.	datum	10-3-88
bibliotheek	RXE-0574		
database	57S-1181		
print nr.			

deze tekening is vervangen door:

school	AN	EU
formaat	A3	uitgave
	R	B

TOP-VIEW
ESCOM 500

ALRESO ELEKTRONICA BV
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ALRESO
0574-1401



8	C.I.
4-2-88	Modification
uitvoering	gepland
afwa	gecontroleerd
keuze	gepland
keuze	gepland
keuze	gepland

deze tekening is vervaardigd door:	
naam	datum
C.I.	11-3-'86
getekend	
bibliotheek	RXE-0574
database	574-1482
print nr.	

deze tekening is vervaardigd door:	
BOTTOM VIEW	
ESCOM 500	

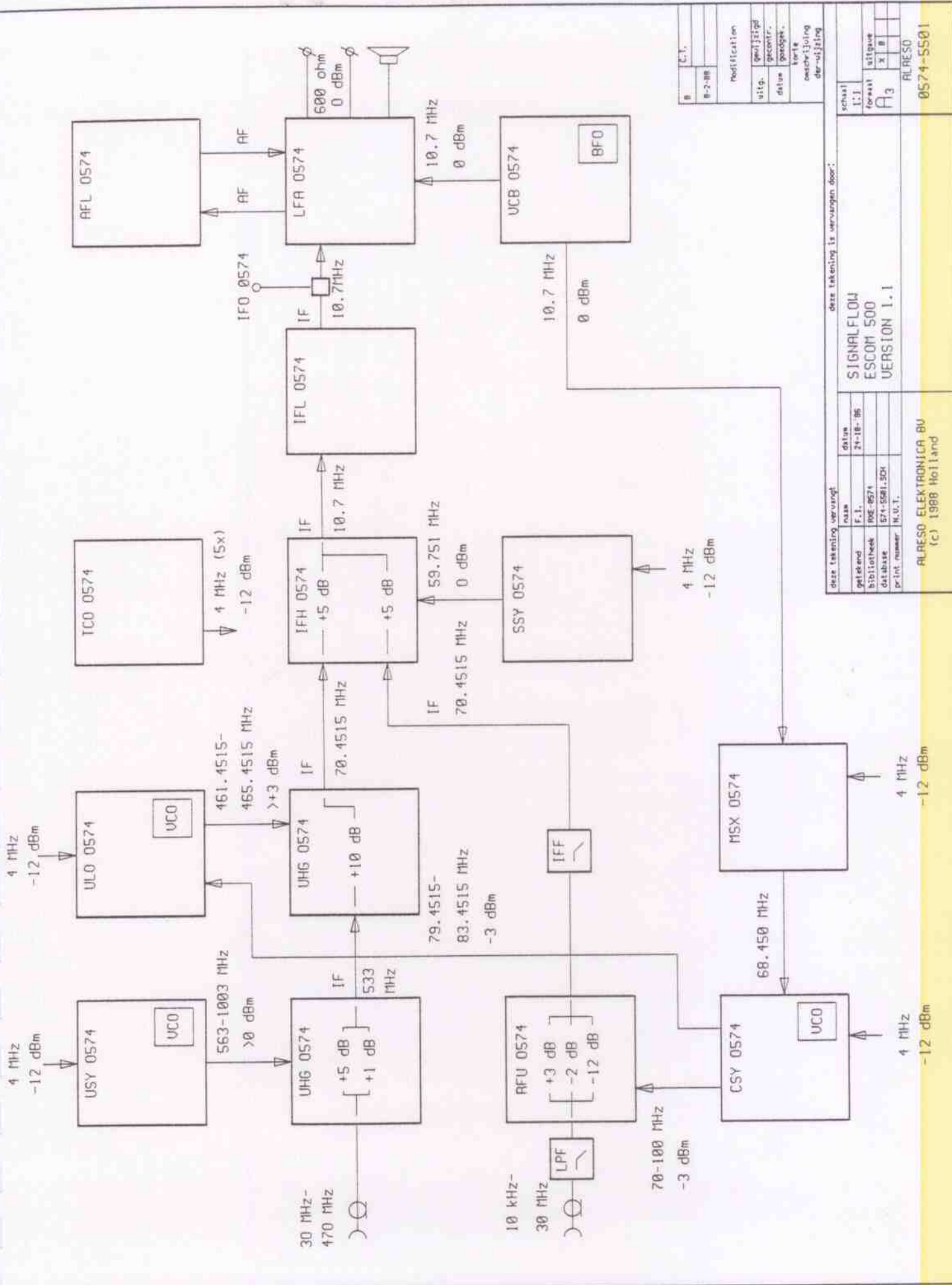
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(c) 1988 Holland

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		



B	C.T.	Modification
B-2-RR		
uitg.	geplijigd	
datum	gecentr.	
	geplak.	
	verte	
	oorsrijving	
	der-uizing	

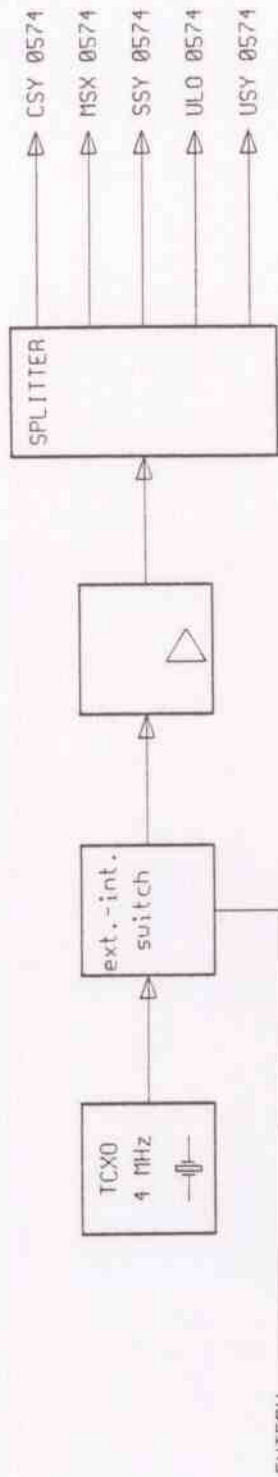
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getekend	teken
F. I.	21-10-86
blootstreek	RWE-0574
datafase	674-6881-SCH
print nummer	M.U.T.
SIGNAL FLOW ESCOM 500 VERSION 1.1	

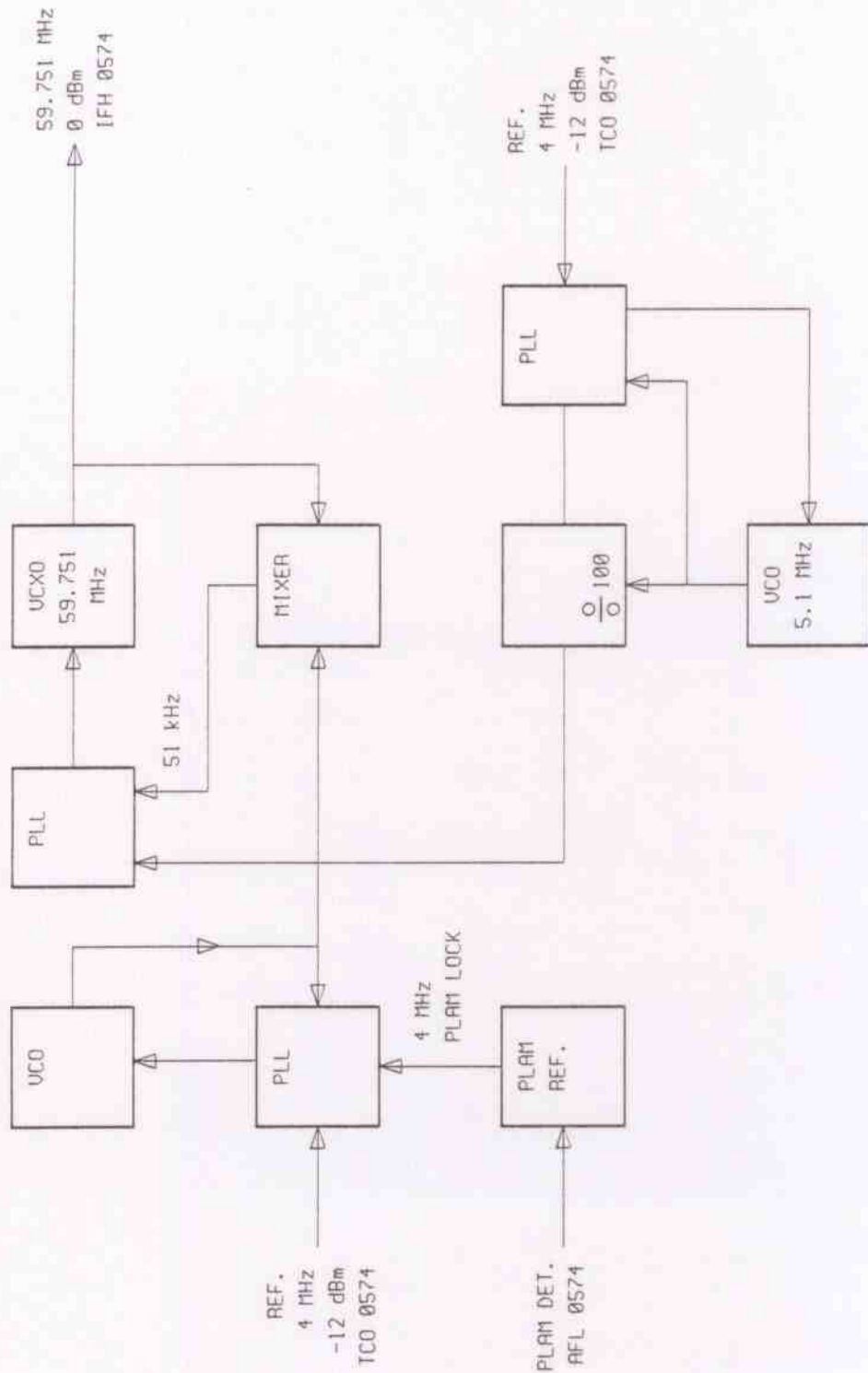
schakel	
I:J	
formaat	x B
A3	
ALRESO 0574-5501	

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5x TX0 ref. OUTPUT
 4 MHz
 -12 dBm



B	C.T.	SPLITTER	
26.10.88		geplaat	uitgave
		gecontr.	X B
		datum	
		kaart	
		omschrijving	
		der-uitjijng	
deze tekening vervangt:		deze tekening is vervangen door:	
getekend	naam	datum	SIGNALFLOW
C.T.	B-83-06		TCO 0574
bibliotiek	ROC-0574		ESCON 500
dataclass	574-5582.SCH		
print nummer	H.U.T.		
ALRESO-ELECTRONICA BU (c) 1988 Holland		ALRESO 0574-5582	



ditte tekening is vervaardigd door:

ditte tekening vervaardigt		ditte tekening is vervaardigd door:	
naam	datum	schaal	uitgave
C.T.	01-03-86	1:1	A3
bibliotheek	00E-0574	formaat	A3
database	S74-5583	afmeting	A3
print nummer	N.O.T.		

SIGNALFLOW
SSY 0574
ESCOM 500

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0574-5503

