

CARRYING BAG

MANUAL 149

Manual for carrying bag

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78075-4E2

CARRYING BAGS

Technical Description

Loudspeaker

All carrying bags are equipped with a (build in) loudspeaker. The loudspeaker is connected in the same way as in a car installation. This means that it is blocked when keying and when the "Sel. Rx-button" is activated. Furthermore it gives an alarm tone when receiving a selective call.

Handset

In order to improve the communication in noisy environs all carrying bags are equipped with a handset with a build in key button. As all carrying bags work as simplex (or demiduplex) the key button should only be activated as long as speaking, contrary to a duplex system.

Connector for accessories

This connector has connections for external key, dynamic close talk microphone and headset.

Antenna connection

A special BNC-connector makes it possible to mount the antenna in a safe way. A standard connector will also fit so that the carrying bag can be used as a mobile installation with a magnetic antenna on top of the car.

Supply connector

When connecting a "charger for battery cassette" the accumulator will be charged with about 400 mA. If the accumulators are empty a charging time of about 14 hours will be necessary in order to obtain full capacity. The charging current is so low that in case

of overcharging the accumulators won't be damaged. During charging with "Charger for battery cassette" the radio must be turned OFF. If the radio is ON, it will consume a great part of the charging current. By using the "cable for connection to car accumulator" the set can be connected to 12V supply. In this case the set will automatically be switched to take power directly from the external supply and the accumulators will be charged with 400 mA at the same time.

Battery cassette

The nic.cad. cells (6 pcs. 4 ah) are gathered in a battery cassette with contact points. The batteries are changed by loosening the bottom screw in the carrying bag with a coin and remove the bottom plate. Now the battery cassette slips out.

Mounting the station in a carrying bag

Turn the set in the right way (observe the connectors in the bottom) and push it down in the carrying bag.

How to remove a station

The bottom screw in the carrying bag must be loosened with a coin. When pressing the screw, the nut will press the station up and it can be removed.

Transmitter output power

Because the voltage from the accumulator unit is only 7,2 volt, the transmitter output in the carrying bag will be less than when the same station is installed in a car (observe the table showing the combination possibilities for carrying bags and stations).

During charging with the above mentioned "loader for battery cassette" the output power will be the same as shown in the plan under " output power as carrying bag".

However, if the set is supplied with 12V from an external supply, i.e. the car accumulator, the transmitter output power will have the same value as if the set was mounted in a car.

Lamps

In order to save accumulator current the lamps on the station are switched off when the station is used in a carrying bag and the microtelephone is in its place. If the microtelephone is taken off the lamps are lighted automatically.

When the carrying bag is supplied with external 12V as mentioned above the lamps will work as in a car installation.

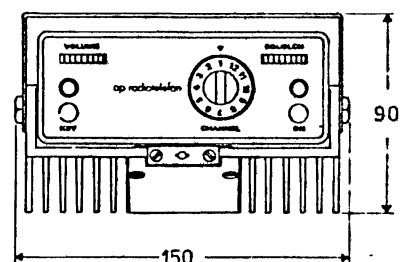
PA-stage

From the plan it appears that some carrying bags are equipped with a PA-stage. This is the case for all carrying bags for use with either a station with external 25W PA-stage (e.g. 201-025) or a station intended for duplex. The PA-stage in the carrying bag is built together with the antenna switch and the antenna filter and is (except for voltage in the antenna relay) identical with the external PA-stage in mounting units for 25W continuous operation. The purpose with this is to obtain max. output power (25W) when the carrying bag is supplied with 12V.

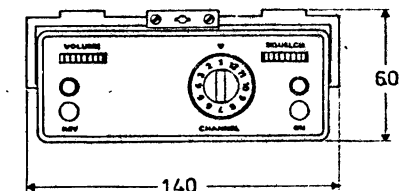
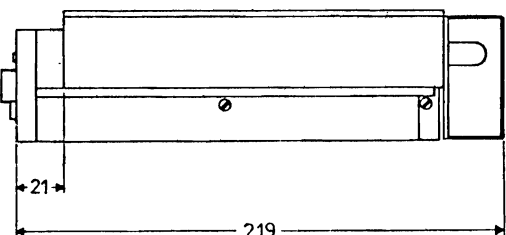
Carrying bags without PA-stage (215-015) belongs to stations with internal PA-stage and antenna switch (25W intermittent/10W UHF). With external 12V supply this will give max. power in the carrying bag. As a general rule a 25W set with battery voltage 7,2V will give about 6W output power, while a 6W PA-stage e.g. station 201-028 at 7,2V gives about 2W output power.

CARRYING BAGS - SUMMARY

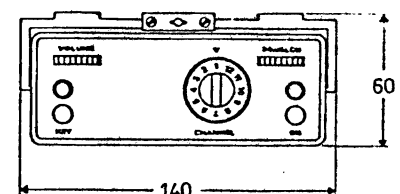
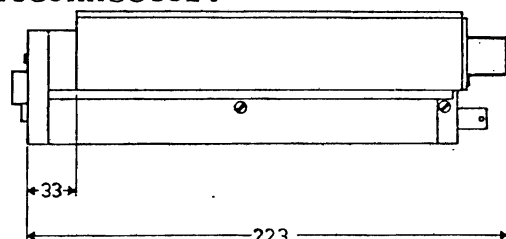
Frequency band	Radio unit	Carrying bag	RF-power as portable	RF-power with ext. 12 V	Battery lifetime as portable at 10% key.
4 m	6W 201-029 25W 201-037 Intermitt.	215-015	2W 6W	6W 25W	10 hours 7 hours
2 m	6W 201-028 25W 201-036 Intermitt.	215-015	2W 6W	6W 25W	10 hours 7 hours
UHF	6W 201-030 10W 201-030	215-015	2W 2W	6W 10W	10 hours 10 hours
4 m	25W 201-026 continuous	215-016 with PA-stage	6W	25W	7 hours
2 m	25W 201-025 continuous	215-017 with PA-stage	6W	25W	7 hours
UHF	25W 201-027 continuous	215-018 with PA-stage	5W	25W	7 hours
Danish Norwegian 80 channel UHF MTD	25W 201-027	215-018 with PA-stage	5W	25W	6 hours
80 channel UHF MTD with scan.	25W 201-032	215-019 extended and with PA-stage	5W	25W	6 hours
65 channel 2 m Norwegian. Public telephone	25W 201-025	215-017 with PA-stage	6W	25W	6 hours



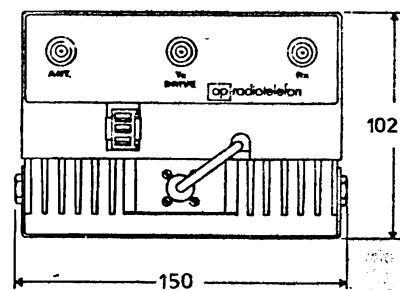
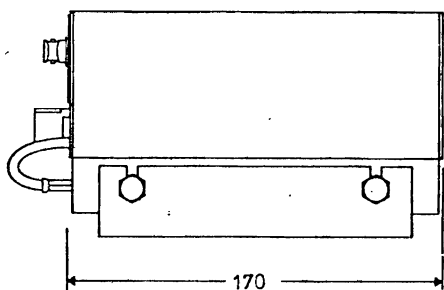
Total weight: 2,2 kg



Total weight: 2,2 kg



Total weight: 3,1 kg



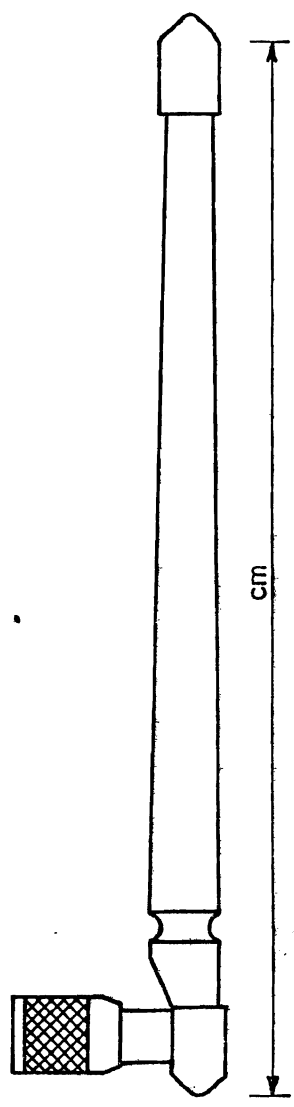
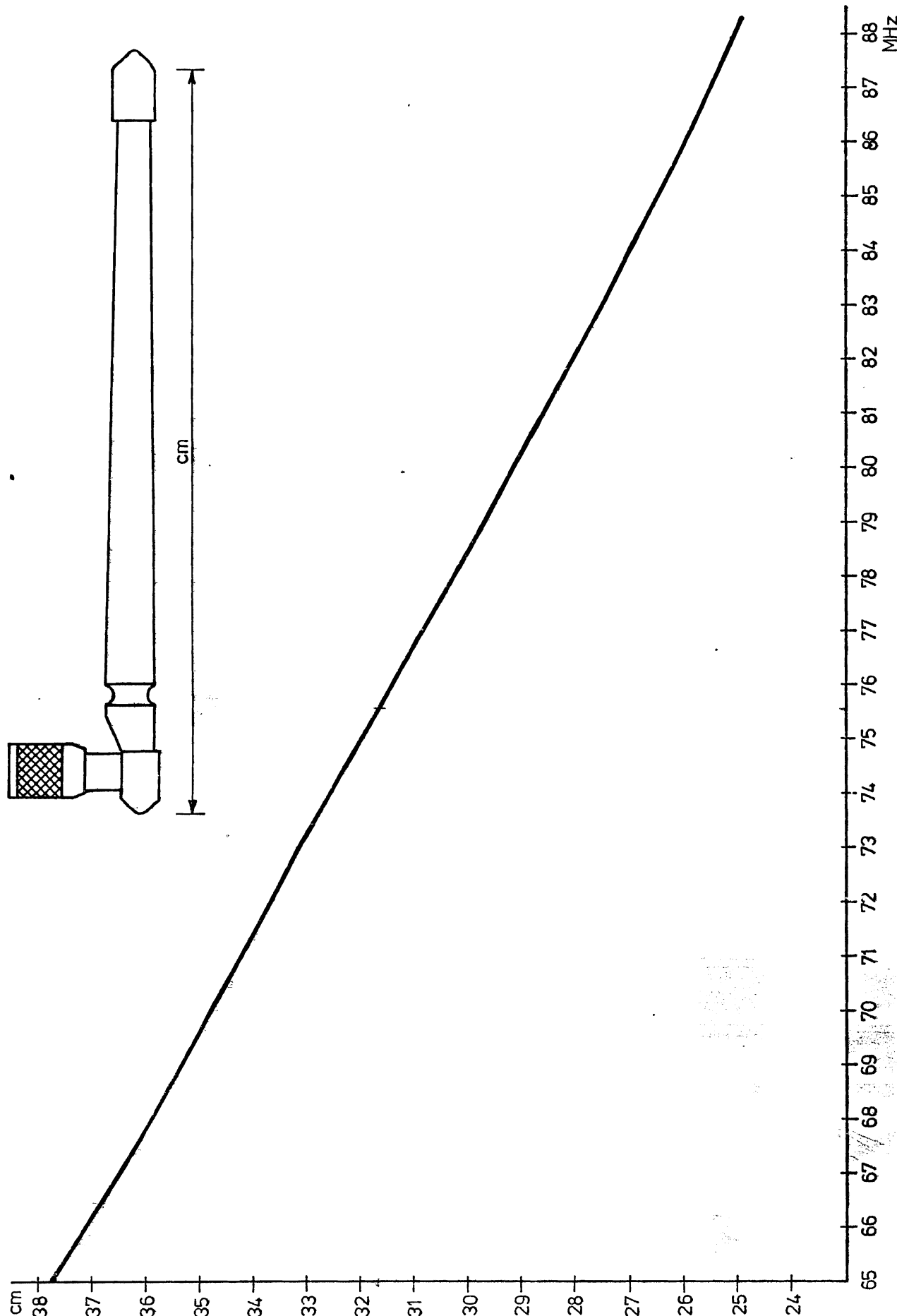
Total weight with
batteri unit: 5,2 kg



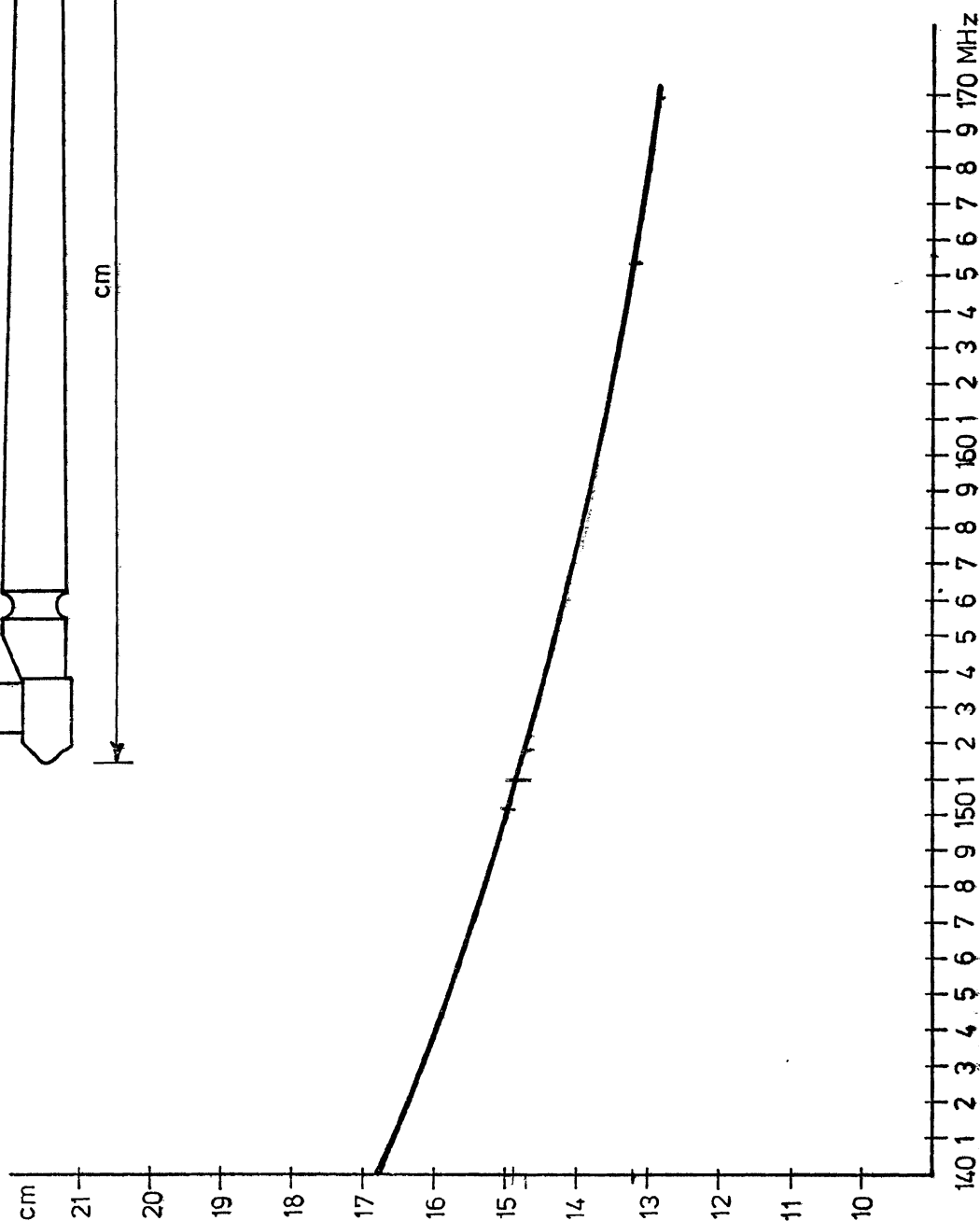
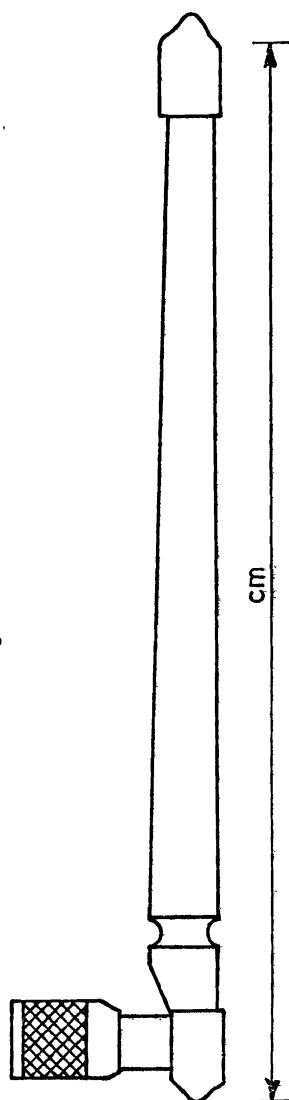
Spareparts for carryingbags

Antenna 4 m	01-127
Antenna 2 m	01-128
Antenna UHF	01-129
Battery cassette	202-001
Ext. supply connection female (for mounting in car)	06-235
Ext. supply connection male (for mounting in car)	18-335
Cable for connection to car accumulator	211-003
Wiring set for carryingbag with PA-stage	212-020
Wiring set for carryingbag without PA-stage	212-021
Charger for battery cassette	211-050
Handset	213-003
PA-stage 2 m	216-007
PA-stage 4 m	216-008
PA-stage UHF	216-009
Connector for accessories	13-202
3 pole connector female for ext. supply cable	13-149

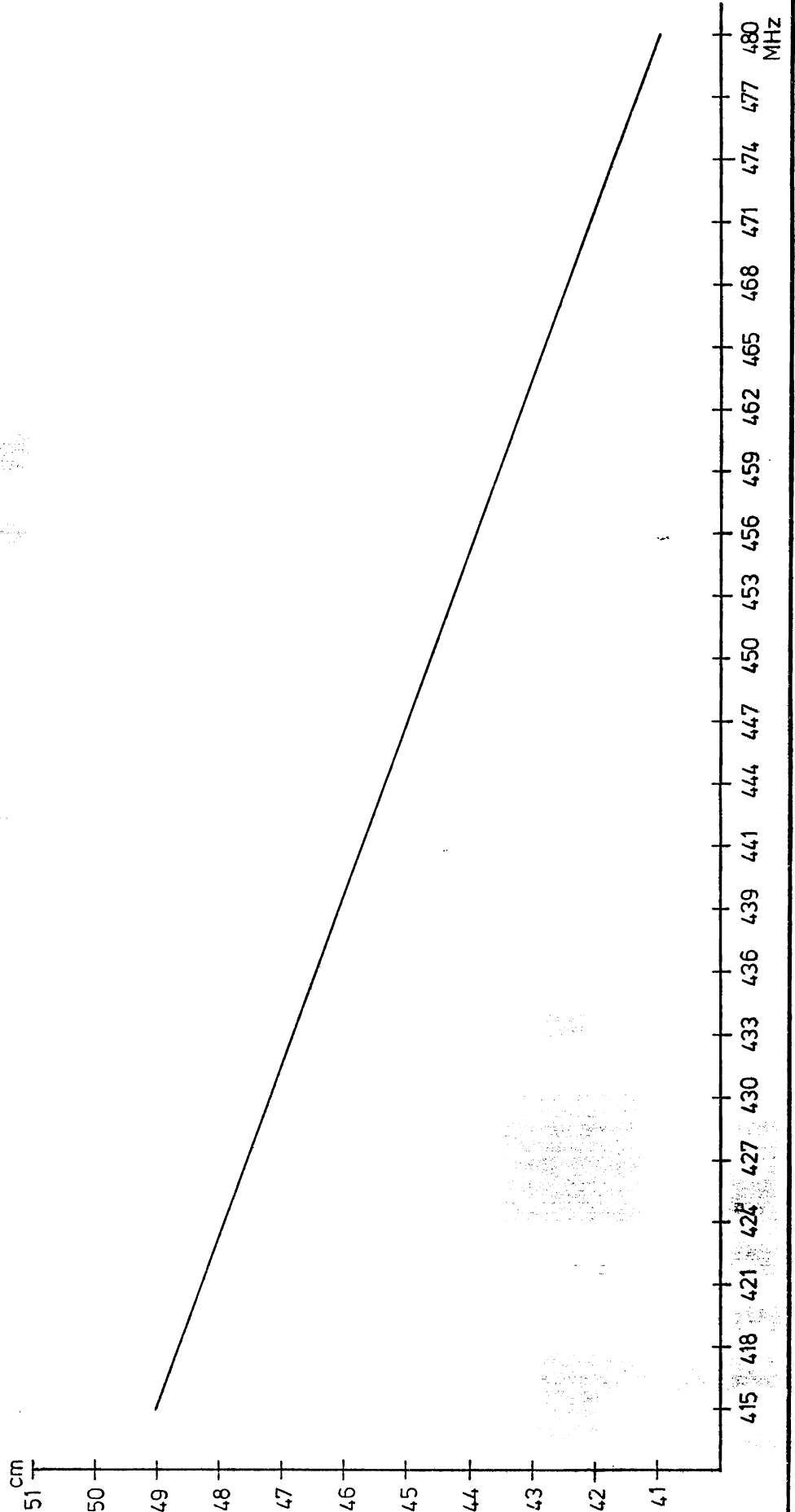
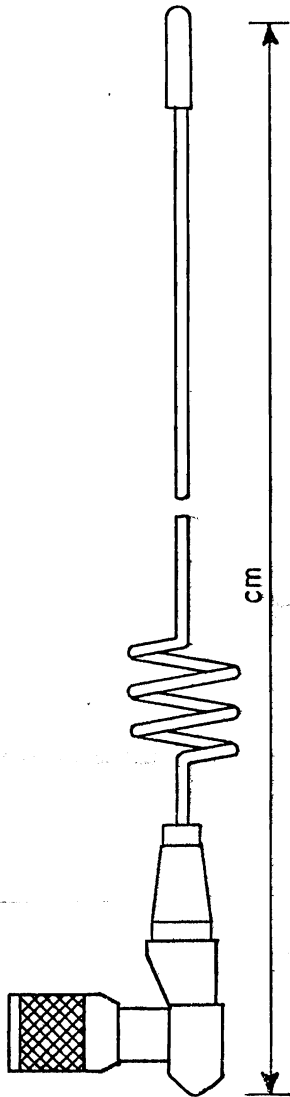
78050-4E2



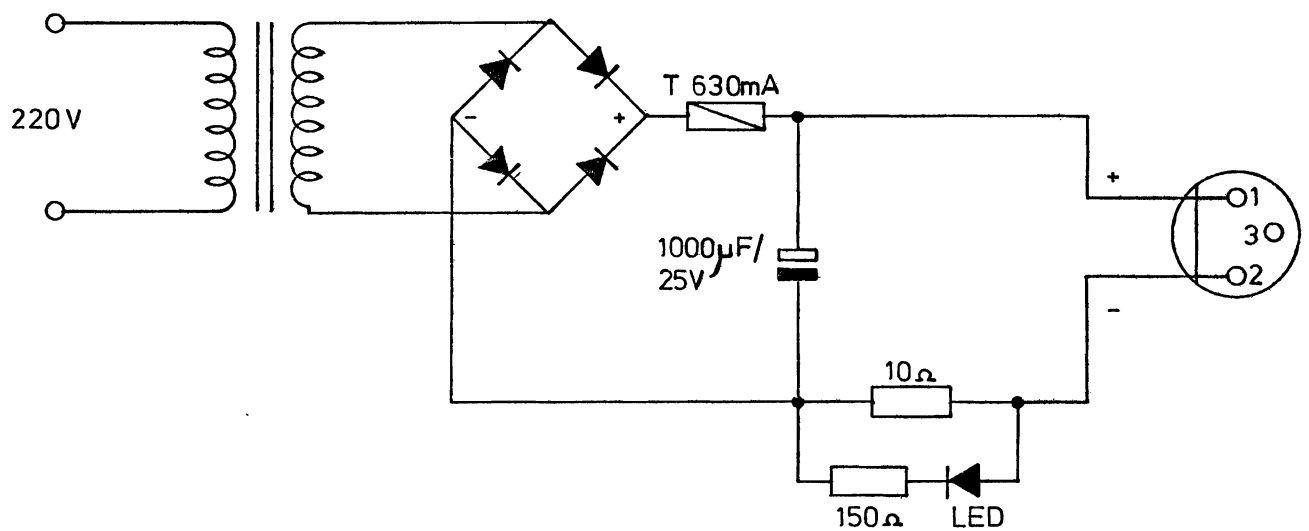
Rettet: 	Antenna length for carryingbags 4m band	Tegn.: 27-2-78 AMC	Kontr.:
		Stykl. nr.:	
	AP-RADIOTELEFON $\frac{A}{S}$	Tegn. nr.: 78047-4M2	



Rettet:	Antenna length for carryingbags 2 m band	Tegn.: 27- 2 - 78 AMC	Kontr.:
		Stykl. nr.:	
	AP-RADIOTELEFON $\frac{1}{5}$	Tegn. nr.:	
		78048 - 4M2	



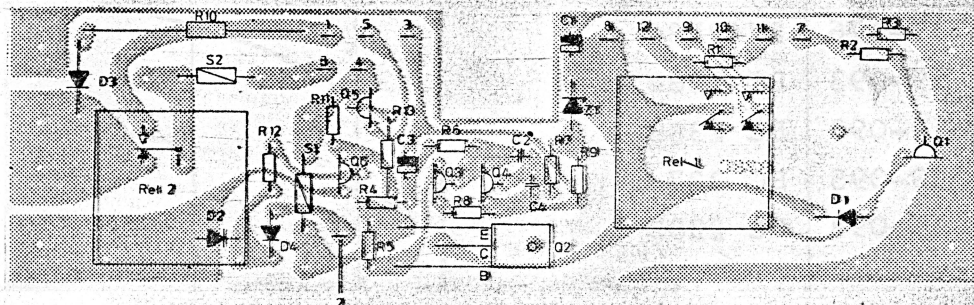
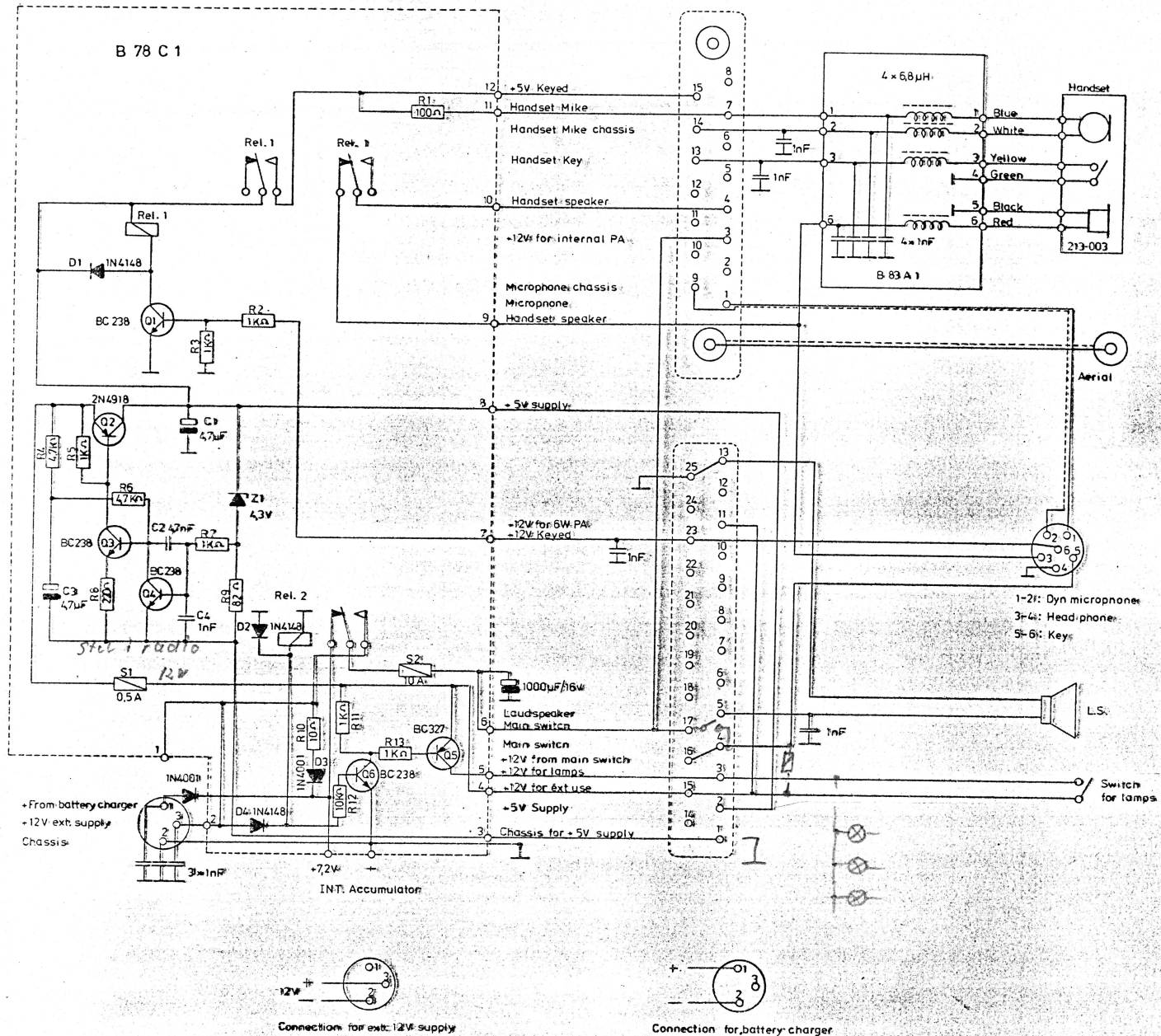
Rettet: 	Antenna length for carryingbags	Tegn.: 9-5-78	Kontr.:
	UHF band	AMC	
	AP-RADIOTELEFON A/s	Stykl. nr.:	
		Tegn. nr.:	78074-4E2



Ladeensretteren består af en ombygget enhed
 FRIWO type SG 24/34
 Den færdige enhed har lagernr. 212-050

Rettet:	LADEENSRETTER FOR BÆRBAR	Tegn.: 11-1-78	Kontr.:
		AMC	
		Stykl. nr.:	
	AP-RADIOTELEFON 1/5	Tegn. nr.:	78003 -4E2

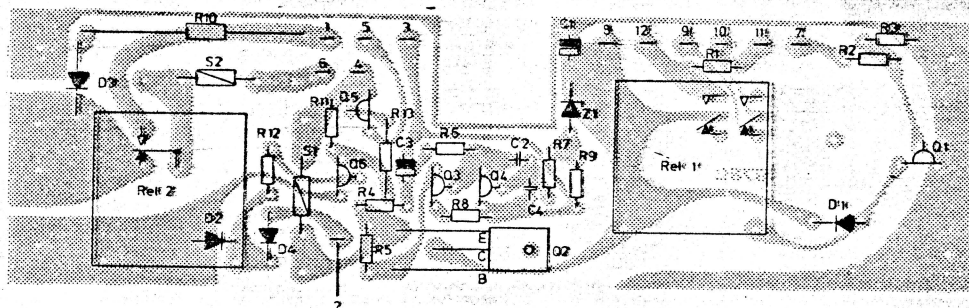
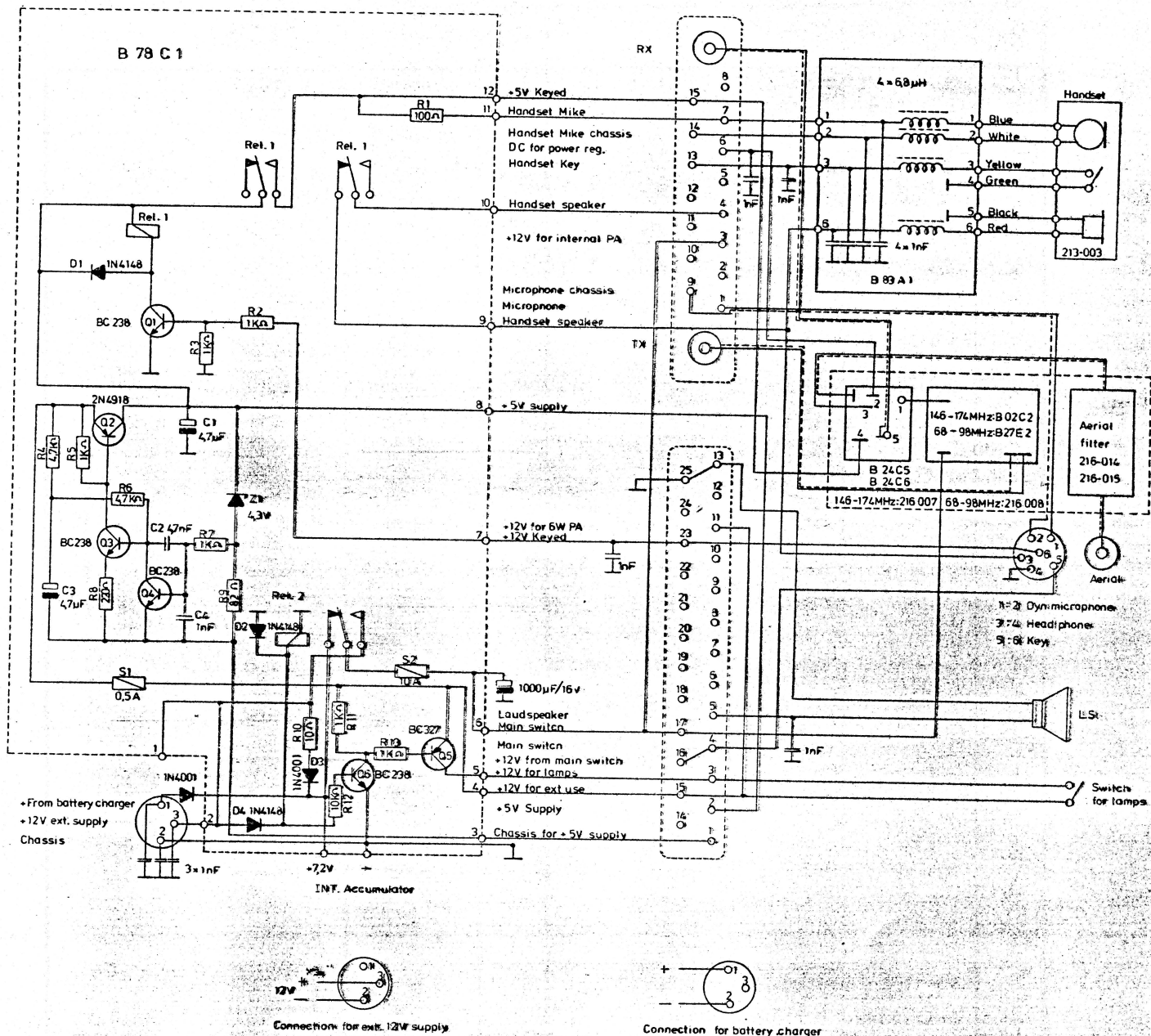
B 78 C 1



Projekt:	Wiring for carrying bag no. 215-015 and 215-020	Tegn.:	Kontr.:
	Power supply Print B 78 C 1	9-2-78: H.J.	L.T.
	AP-RADIOTELEFON AS	Stykt. nr.:	
		Tegn. nr.:	78035-2E2

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
R1	13-271	100 Ω 1/8 W CR16			
R2	13-283	1 K Ω " "			
R3	13-283	1 K Ω " "			
R4	13-291	4,7 K Ω " "			
R5	13-283	1 K Ω " "			
R6	13-291	4,7 K Ω " "			
R7	13-283	1 K Ω " "			
R8	13-275	220 Ω " "			
R9	13-270	82 Ω " "			
R10	13-584	10 Ω 10 % 5 W			
R11	13-283	1 K Ω 1/8 W CR16			
R12	13-295	10 K Ω " "			
R13	13-270	1 K Ω 1/4 W CR25			
C1	11-505	4,7 μ F/25 V Tant			
C2	11-416	4,7 nF Ker			
C3	11-505	4,7 μ F/25 V Tant			
C4	11-409	1 nF Ker			
D1	04-062	1N4148			
D2	04-062	1N4148			
D3	04-060	1N4001			
D4	04-062	1N4148			
Z1	04-045	BZX83-C4V3			
Q1	19-093	BC 238B			
Q2	19-176	2N4918			
Q3	19-093	BC 238B			
Q4	19-093	BC 238B			
Q5	19-095	BC 327			
Q6	19-093	BC 238B			
Rel1	17-040	MF/K 23 Pasi			
Rel2	17-041	MS/K 12 Pasi			
S1	18-013	0,5 A. MT			
S2	18-014	10 A. MT			
Wiring for carrying bag no. 215-015 and 215-020. B 78 C 1 Tilhører tegn. nr.: 78035-2E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div>
					Stykl. nr.: 78035-2E2



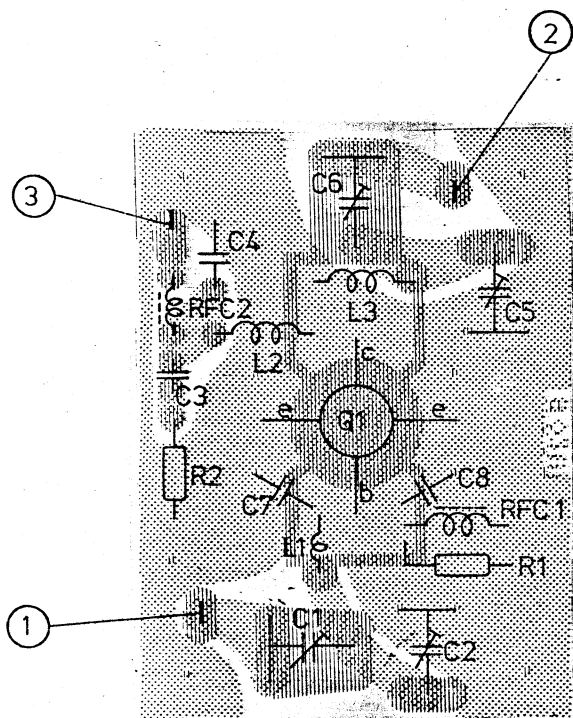
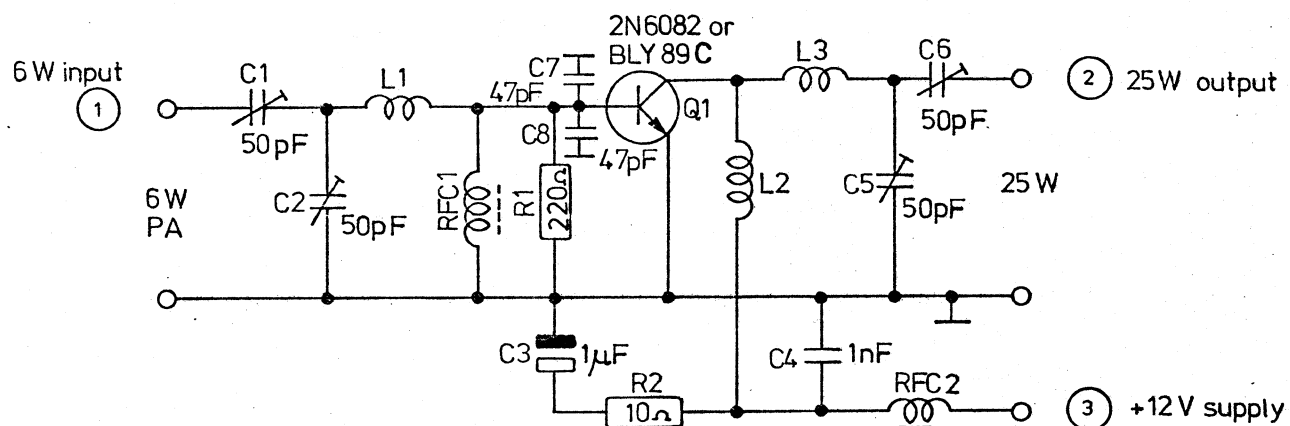
Rettet:	Wiring for carrying bag no. 215-016 and 215-017	Tegn:	23-2-79 H.H.	Kont:	LT
	Power supply Print B 78 C 1	Stykt nr:			
	AP-RADIOTELEFON 4s	Tegn nr:	78045-2E 2		

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
R1	13-271	100 Ω 1/8 W CR16			
R2	13-283	1 K Ω " "			
R3	13-283	1 K Ω " "			
R4	13-291	4,7 K Ω " "			
R5	13-283	1 K Ω " "			
R6	13-291	4,7 K Ω " "			
R7	13-283	1 K Ω " "			
R8	13-275	220 Ω " "			
R9	13-270	82 Ω " "			
R10	13-584	10 Ω 10 % 5 W			
R11	13-283	1 K Ω 1/8 W CR16			
R12	13-295	10 K Ω " "			
R13	13-270	1 K Ω 1/4 W CR25			
C1	11-505	4,7 μ F/25 V Tant			
C2	11-416	4,7 nF Ker			
C3	11-505	4,7 μ F/25 V Tant			
C4	11-409	1 nF Ker			
D1	04-062	1N4148			
D2	04-062	1N4148			
D3	04-060	1N4001			
D4	04-062	1N4148			
Z1	04-045	BZX83-C4V3			
Q1	19-093	BC 238B			
Q2	19-176	2N4918			
Q3	19-093	BC 238B			
Q4	19-093	BC 238B			
Q5	19-095	BC 327			
Q6	19-093	BC 238B			
Rel1	17-040	MF/K 23 Pasi			
Rel2	17-041	MS/K 12 Pasi			
S1	18-013	0,5 A. MT			
S2	18-014	10 A. MT			
Wiring for carrying bag no. 216-016 and 215-017. B 78 C 1 Tilhører tegn. nr.: 78045-2E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div>
					Stykl. nr.: 78045-2E2

AP-RADIOTELEFON

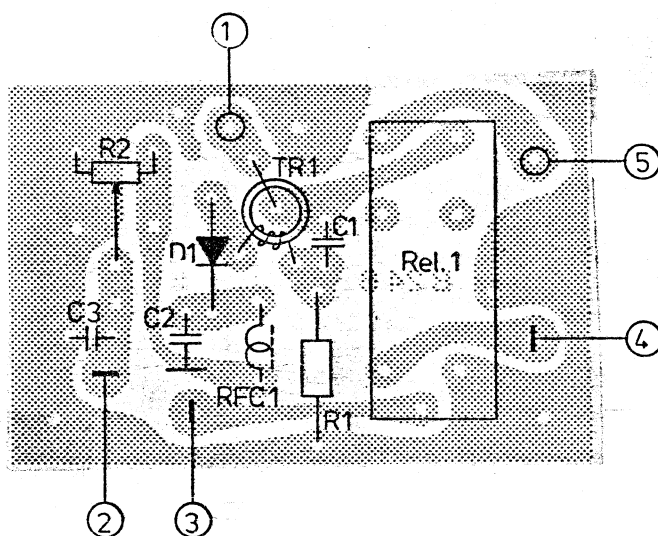
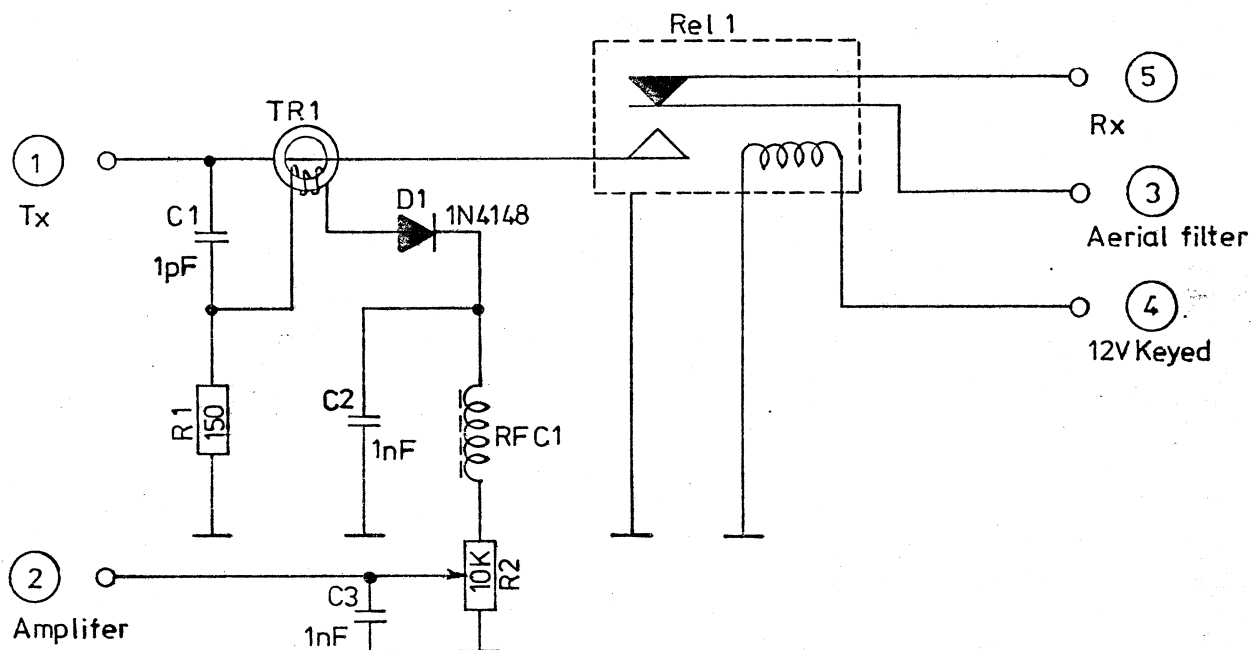
Nr.	Kode	Data	Nr.	Kode	Data
R1	13-271	100 Ω 1/8 W CR16			
R2	13-283	1 K Ω " "			
R3	13-283	1 K Ω " "			
R4	13-291	4,7 K Ω " "			
R5	13-283	1 K Ω " "			
R6	13-291	4,7 K Ω " "			
R7	13-283	1 K Ω " "			
R8	13-275	220 Ω " "			
R9	13-270	82 Ω " "			
R10	13-584	10 Ω 10 % 5 W			
R11	13-283	1 K Ω 1/8 W CR16			
R12	13-295	10 K Ω " "			
R13	13-270	1 K Ω 1/4 W CR25			
C1	11-505	4,7 μ F/25 V Tant			
C2	11-416	4,7 nF Ker			
C3	11-505	4,7 μ F/25 V Tant			
C4	11-409	1 nF Ker			
D1	04-062	1N4148			
D2	04-062	1N4148			
D3	04-060	1N4001			
D4	04-062	1N4148			
Z1	04-045	BZX83-C4V3			
Q1	19-093	BC 238B			
Q2	19-176	2N4918			
Q3	19-093	BC 238B			
Q4	19-093	BC 238B			
Q5	19-095	BC 327			
Q6	19-093	BC 238B			
Rel1	17-040	MF/K 23 Pasi			
Rel2	17-041	MS/K 12 Pasi			
S1	18-013	0,5 A. MT			
S2	18-014	10 A. MT			
Wiring for carrying bag no. 215-018 and 215-019. B 78 C 1 Tilhører tegn. nr.: 78043-2E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div>
					Stykl. nr.: 78043-2E2



Rettet: 17-3-77 JH/AC	Extern 25W PA-stage for 2m Print board B02C1	Tegn.: 2-1-75 AC	Kontr.:
		Stykl. nr.:	
	AP-RADIOTELEFON $\frac{A}{S}$	Tegn. nr.: 75009-4E2	

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
R1	13-362	220 Ω $\frac{1}{4}$ W CR 25			
R2	13-350	10 Ω " "			
C1	19-334	50 pF Trim.			
C2	19-334	50 pF "			
C3	11-502	1 μ F/35V Tant.			
C4	11-409	1 nF Ker.			
C5	19-334	50 pF Trim.			
C6	19-334	50 pF "			
C7	11-394	47 pF Ker.			
C8	11-394	47 pF "			
Q1	19-111 19-164	BLY89C or 2N6082			
L1		75317-4E2			
L2		75316-4E2			
L3		75315-4E2			
RFC- 1		75290-4E2			
RFC- 2		75290-4E2			
Extern PA-stage for 2 m Print board B 02C 1 Tilhører tegn. nr.: 75009-4E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div> <div>Stykl. nr.: 75009-4S2</div>



B 24 C2 relay RS-12V
 B 24 C3 without relay
 B 24 C5 relay RS- 6V

Rettet:

23-2-78 AMC/IM

Aerial switch for 2m, external PA
 Print board B 24 C 2,3 and 5

AP-RADIOTELEFON 1/5

Tegn.: 1-7-75
 EH.

Kontr.:

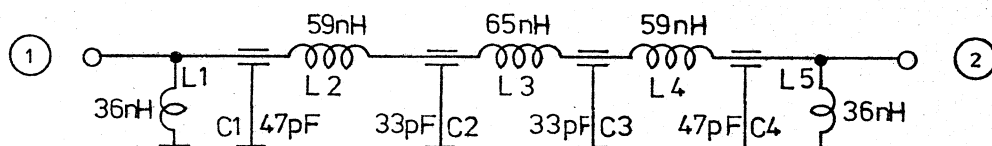
Stykl. nr.:

Tegn. nr.:

75010 - 4E2

AP-RADIOTELEFON

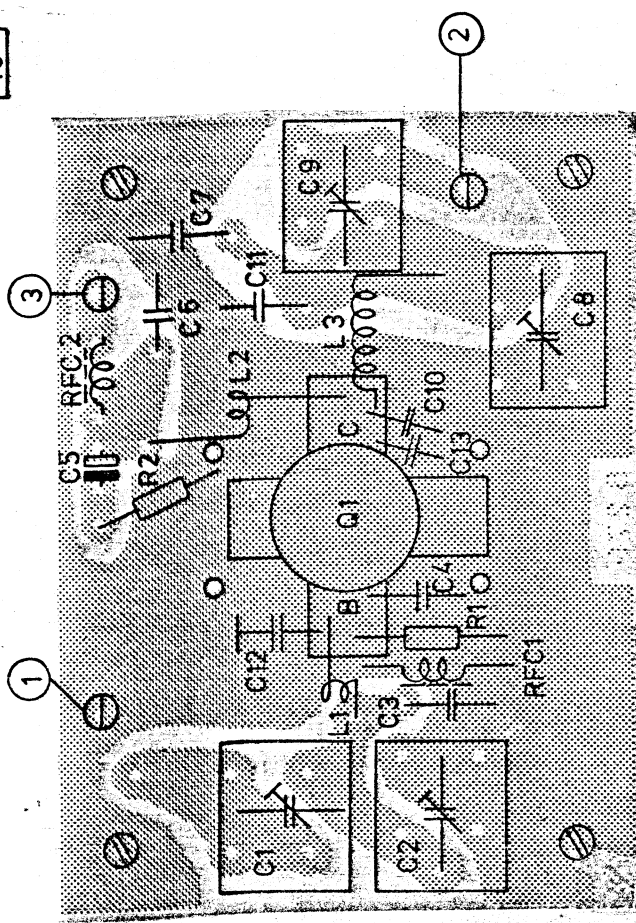
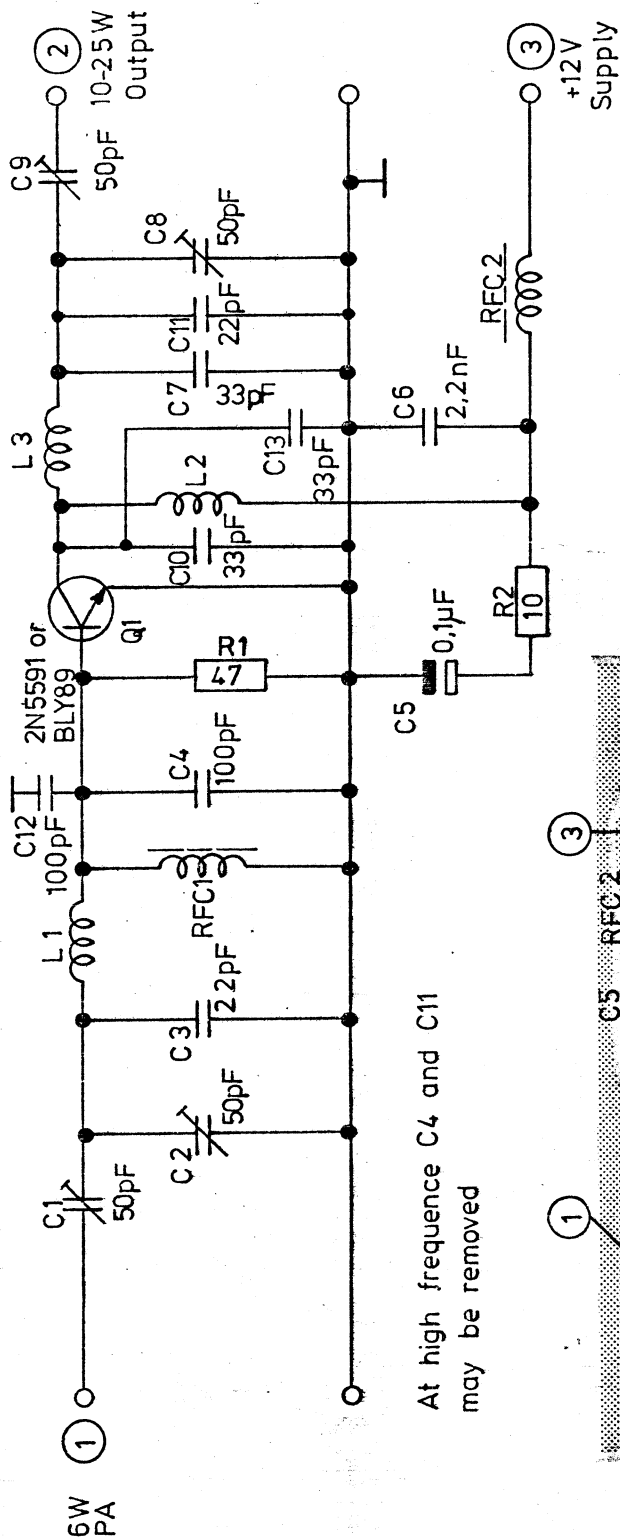
Nr.	Kode	Data	Nr.	Kode	Data
R1	13-402	150 Ω $\frac{1}{4}$ W CR 25			
R2	19-258	10 k Ω Trimpot.			
C1	11-361	1 pF Ker.			
C2	11-409	1 nF "			
C3	11-409	1 nF "			
D1	04-062	1N4148			
TR1		75332-4E2			
RFC- 1		75290-4E2			
RE 1	17-056	AE 5612-02, RS-12V, National			
RE 1	19-059	AE 5612-02 RS- 6V, Mational			
Aerial switch for 2 m Print board B 24C 2, 3 and 5 Tilhører tegn. nr.: 75010-4E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div>
					Stykl. nr.: 75010-4S2



Rettet:	Aerial filter for 2 m	Tegn.: 9-1-75	Kontr.: .	
		AC		
		Stykl. nr.:		
		AP-RADIOTELEFON 1/2		Tegn. nr.:
				75016-4E2

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
C1	11-450	47 pF feed-thru Philips 2222 700 03479			
C2	11-449	33 pF feed-thru Philips 2222 700 03339			
C3	11-449	33 pF feed-thru Philips 2222 700 03339			
C4	11-450	47 pF feed-thru Philips 2222 700 03479			
L1		75325-4E2			
L2		75322-4E2			
L3		75321-4E2			
L4		75322-4E2			
L5		75325-4E2			
Aerial filter for 2m			Rettet:		<div>Tegn.:</div> <div>Stykl. nr.:</div>
Tilhører tegn. nr.: 75016-4E2					<div>Kontr.:</div> <div>75016-4S2</div>



Rettet: 6-8-75 AC
 28-10-75 EH/BJ
 9-3-75 AC/BJ
 18-2-77 AC/BJ
 9-1-78 AC/IM
 7-4-78 AMC/JH
 16-6-78 JS/AC

Extern 10-25W PA-stage for 4m
 Print Board B27E1

AP-RADIOTELEFON 1/5

Tegn.: 11-4-75
 E.H.

Kontr.: 9-6-75
 B.J.

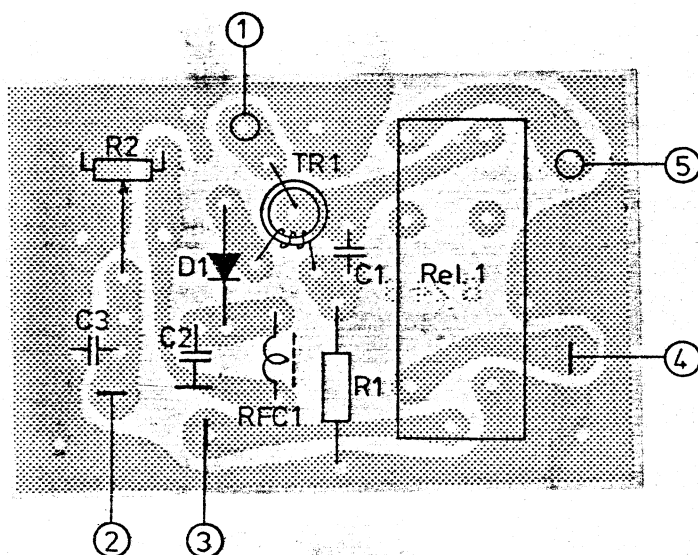
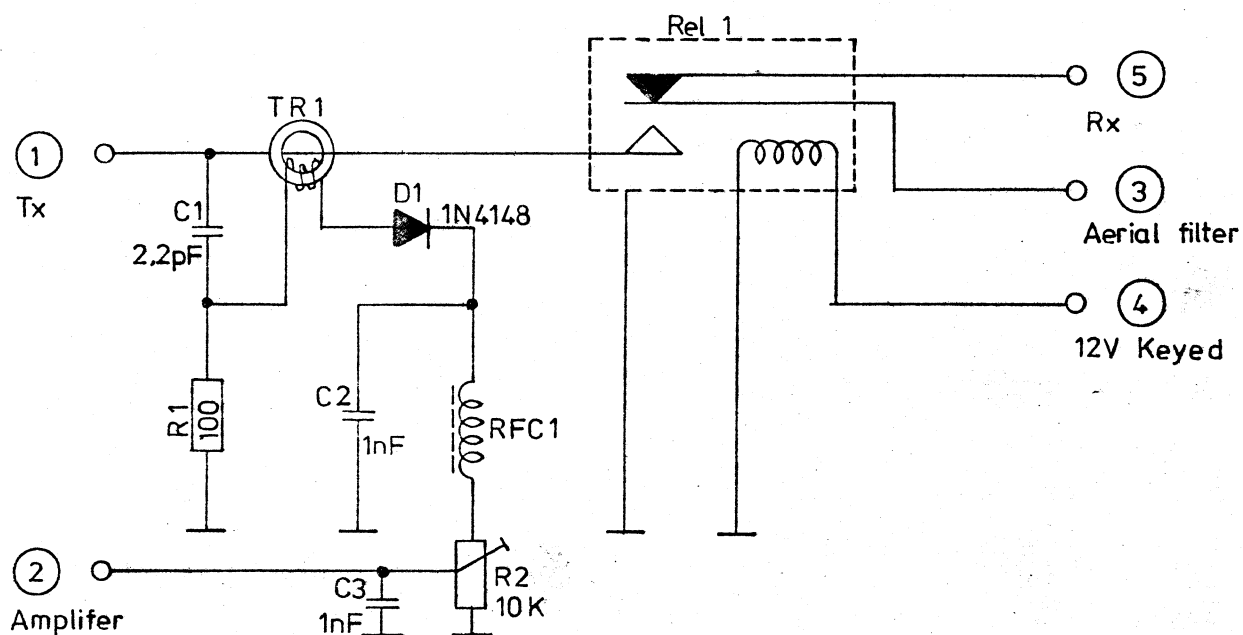
Stykl. nr.:

Tegn. nr.:

75152-4E2

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
R1	13-356	47 Ω $\frac{1}{4}$ W			
R2	13-350	10 Ω "			
C1	19-334	50 pF trim.			
C2	19-334	50 pF "			
C3	11-385	22 pF ker.			
C4	11-401	100 pF ker. black			
C5	11-500	0,1 μ F/35 V tant.			
C6	11-412	2,2 nF ker.			
C7	11-391	33 pF N150 400 V			
C8	19-334	50 pF trim.			
C9	19-334	50 pF "			
C10	11-390	33 pF ker.			
C11	11-386	22 pF N150 400 V			
C12	11-401	100 pF ker.			
C13	11-390	33 pF "			
L1		75303-4E2			
L2		75302-4E2			
L3		75301-4E2			
RFC-1		75290-4E2			
RFC-2		75290-4E2			
Q1	19-180	2N 5591 m. underlagsskive 76018-4M2			
Extern 10-25 W PA-stage Print board B 27 E 1 Tilhører tegn. nr.: 75152-4E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div>
					Stykl. nr.: 75152-4S2



B24 C1 relay RS-12V

B24 C4 without relay

B24 C6 relay RS-6V

Rettet:

22-2-78 AMC/IM
7-4-78 AMC/JH

Aerial switch for 4m, External PA
Print board B24 C 1, 4 and 6

Tegn.: 3-6-75
E.H.

Kontr.: 9-6-75
B.J.

Stykl. nr.:

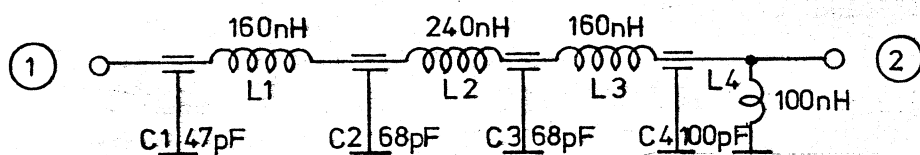
Tegn. nr.:

75127-4E2

AP-RADIOTELEFON 1/5

AP-RADIOTELEFON

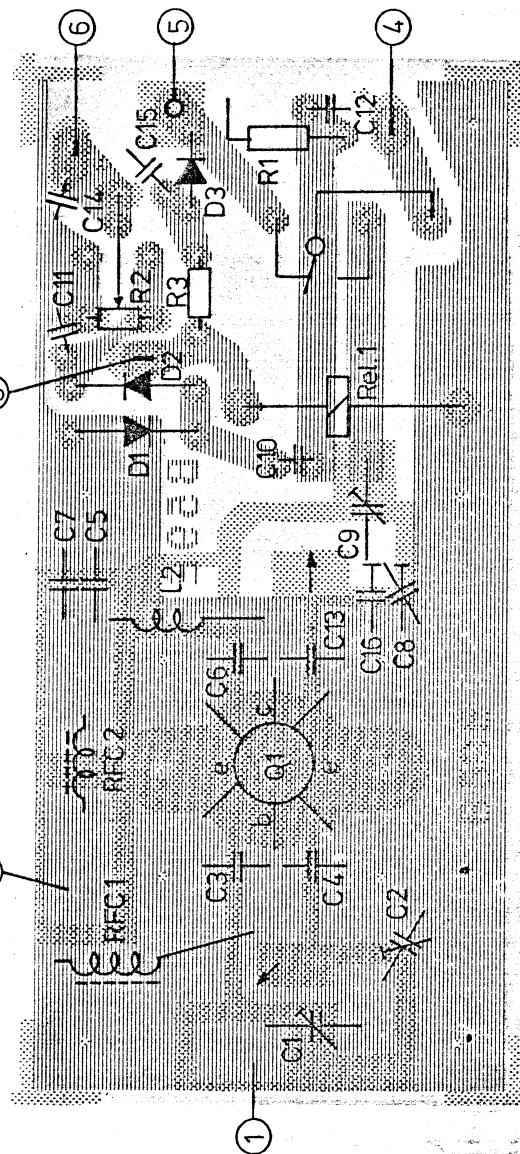
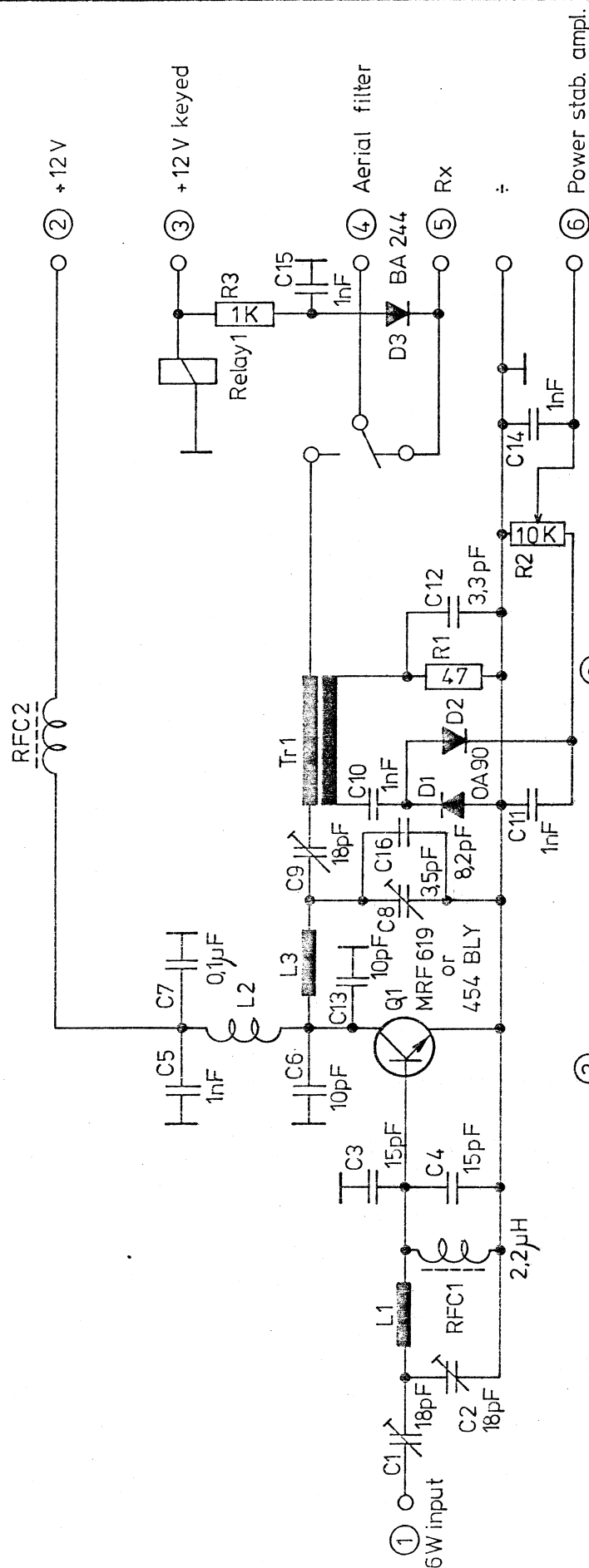
Nr.	Kode	Data	Nr.	Kode	Data
R1	13-259	100 Ω $\frac{1}{4}$ W CR 25			
R2	19-258	10k Ω pot. ligg.			
C1	11-363	2,2 pF ker.			
C2	11-409	1 nF ker.			
C3	11-409	1 nF ker.			
RFC- 1		78064-4E2			
TR1		75332-4E2			
D1	04-062	1N4148			
Rel. 1	17-056	AE 5612-02, RS-12V. National or			
	17-059	AE 5612-02, RS- 6V. National			
Aerial switch 4 m. Ext. PA Print board B 24 C1,4 and 6 Tilhører tegn. nr: 75127-4E2			Rettet:		<div>Tegn.:</div> <div>Kontr.:</div> <div>Stykl. nr:</div> <div>75127-4S2</div>



Rettet: 3-6-75. E.H.	Aerial filter for 4m	Tegn.: 3-6-75 E.H.	Kontr.:
		Stykl. nr.:	
	AP-RADIOTELEFON $\frac{A}{S}$	Tegn. nr.:	75130 - 4E 2

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
C1	11-450	47 pF feed-thru Philips 2222 700 03479			
C2	11-451	68 pF feed-thru Philips 222 702 07689			
C3	11-451	68 pF feed-thru Philips 2222 702 07689			
C4	11-452	100 pF feed-thru Philips 2222 700 04101			
L1		75310-4E2			
L2		75309-4E2			
L3		75310-4E2			
L4		75308-4E2			
Aerial filter for 4m.			Rettet:		Tegn.:
Tilhører tegn. nr.: 75130-4E2					Kontr.:
					Stykl. nr.: 75130-4E2



B59E1 relay W-7K 570Ω

B59E2 without relay

B59E3 relay M/DK-14

Reiter: 9-1-78 AC/BR
23-2-78 AMC/IM
2-6-78 JS/AC

10-25W PA UHF, aerial switch and
power detector. Print board B59E1,2 and 3

AP-RADIOTELEFON 1/3

Tegn.: 17-11-76
AC

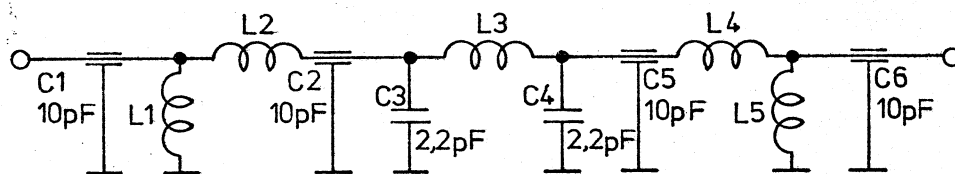
Kontr.:

Stykl. nr.: 75627-4E2

Tegn. nr.: 75627-4E2

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
R1	13-356	47 Ω $\frac{1}{4}$ W CR 25			
R2	19-258	10 K Ω Trim.			
R3	13-283	1 K Ω 1/8 CR 16			
C1	19-330	18 pF Trim.			
C2	19-330	18 pF "			
C3	11-381	15 pF ker.			
C4	11-381	15 pF "			
C5	11-409	1 nF "			
C6	11-376	10 pF "			
C7	11-353	0,1 μ F Laco			
C8	19-346	3,5 pF Trim.			
C9	19-330	18 pF "			
C10	11-409	1 nF ker.			
C11	11-409	1 nF "			
C12	11-366	3,3 pF "			
C13	11-376	10 pF "			
C14	11-409	1 nF "			
C15	11-409	1 nF "			
C16	11-423	8,2 pF NPO "			
D1	04-036	OA 90			
D2	04-036	OA 90			
D3	04-008	BA 244			
Q1	19-177	MRF 619 or 454BLZ			
RFC-1	04-111	2,2 μ H			
RFC-2		75290-4E2			
L2		75619-4E2			
Rel. 1	17-057	W-7K 570 Ω			
Rel.	17-058	MD/K - 14 PASI			
10-25 W PA-stage UHF, aerial switch and power detector. Print board B.59E1, 2, and 3 Tilhører tegn. nr.: 75627-4E2			<div>Tegn.: Stykl. nr:</div> <div>Kontr.: 75627-4S2</div>		



Rettet:	Aerialfilter UHF	Tegn.: 29-12-75	Kontr.:	
		NC-AC		
		Stykl. nr.:		
		AP-RADIOTELEFON $\frac{1}{5}$	Tegn. nr.:	
			75623-4E2	

AP-RADIOTELEFON

Nr.	Kode	Data	Nr.	Kode	Data
C1	11-447	10 pF Ker.			
C2	11-447	10 pF "			
C3	11-363	2,2 pF "			
C4	11-363	2,2 pF "			
C5	11-447	10 pF "			
C6	11-447	10 pF "			
L1		75618-4E2			
L2		75613-4E2			
L3		75612-4E2			
L4		75613-4E2			
L5		75618-4E2			
	08.046	Håndtag til bærbar			
6 W aerial filter UHF			Rettet:		Tegn.:
Tilhører tegn. nr.: 75623-4E2					Kontr.:
					Stykl. nr.:
					75623-4S2