

26-9-83

STORNOMATIC 900U

SP9662D025AP

Service Coordination

09 - 83

8314.9662-00

# STORNOMATIC 900U

## COMBINATION NUMBER - RADIO EQUIPMENT-SP9xxx

PRODUCT CODE	TX FREQ. RANGE	RX FREQ. RANGE	CHAN. SPACE	RADIO TYPE	POWER OUTPUT			FREQ. CAP.	TARGET AREA		OSC. STAB	PACK SIZE	SYSTEM VOLT	RX TYPE	AUDIO POWER
					7	8	9		10	11					
SP9	6	6	2	D	0	2	5	A	P		0	0	0	0	0

- CODE No. M905690G1 → D DENMARK
- CODE No. M905690G4 → S SWEDEN
- CODE No. M905690G3 → N NORWAY
- CODE No. M905690G2 → Y FINLAND

## STORNOMATIC 900U

### SP9662D025AP

The STORNOMATIC 900U is a universal transportable radiotelephone for the NMT (Nordic Mobile Telephone) system. The transportable version is electrically identical to the mobile version except for the implementation of a charging unit and a switching and charging control module. The radio is powered by a built-in battery pack and has a connector for a remote control and external battery, e.g. a car installation.

The radio cabinet is made of sheet metal and covers the radio modules and the charging unit and battery pack. The control head and handset

are mounted in the top. A hinged lid covers the top and the antenna is mounted on a connector on the left side.

The radio modules are mounted on a cast frame similar to the mobile version except for the antenna branching filter which has been placed on the side above the battery pack.

For description of the radiomodules, operating instructions and adjustment procedure refer to the SM9662D025AP handbook.

## TECHNICAL SPECIFICATIONS

All technical specifications for the mobile version also apply except for the following:

### Power supply

12 V 9.5 Ah lead-acid battery

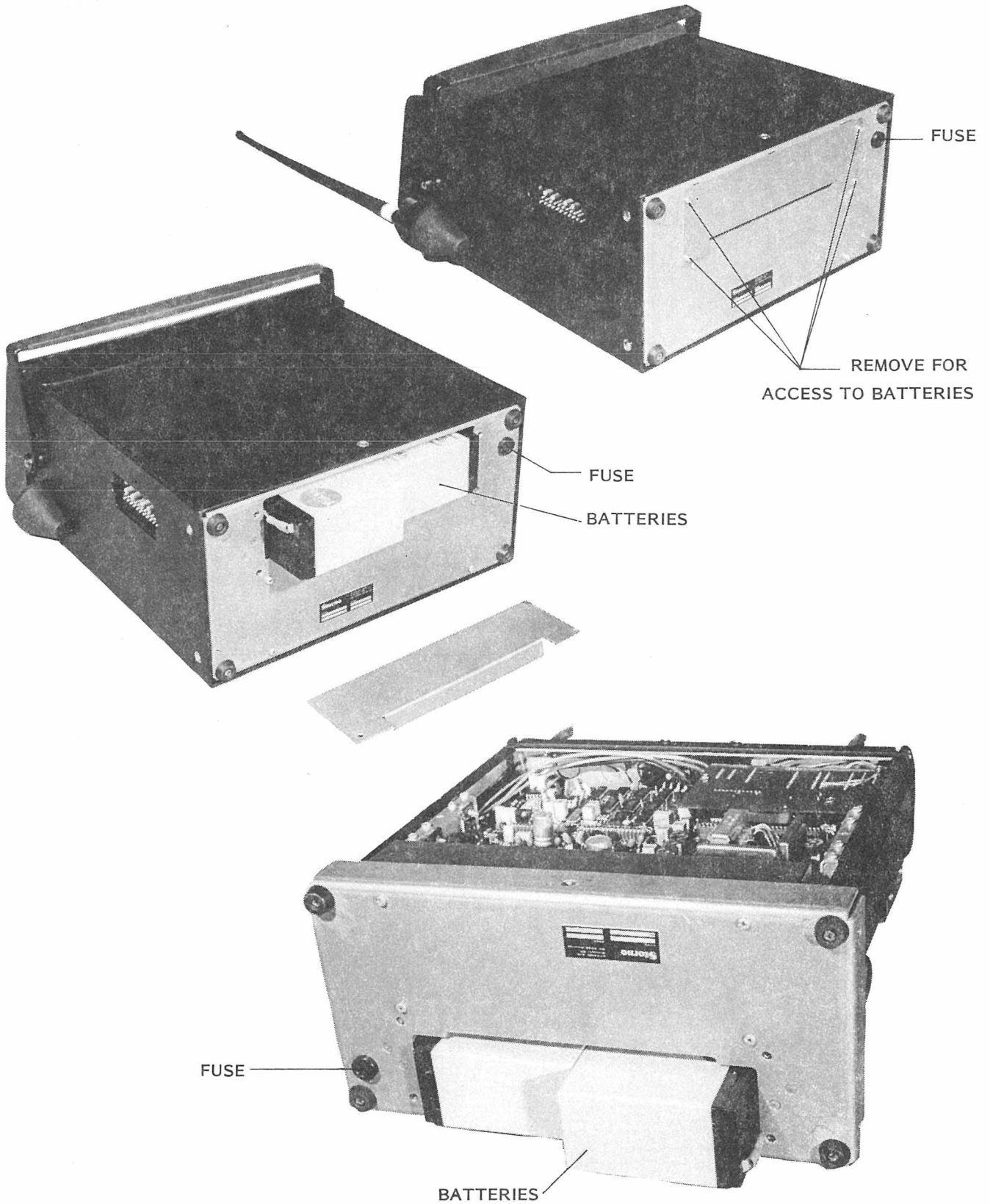
### Charging time

CHARGING SOURCE	CHARGING TIME	
	RADIO ON	RADIO OFF
Ligher plug, max 3 A	14 hours	8 hours
Ext. Power supply 10 A	8 hours	8 hours
Mobile installation	8 hours	8 hours

Charging time are stated for a fully discharged battery.

Note.

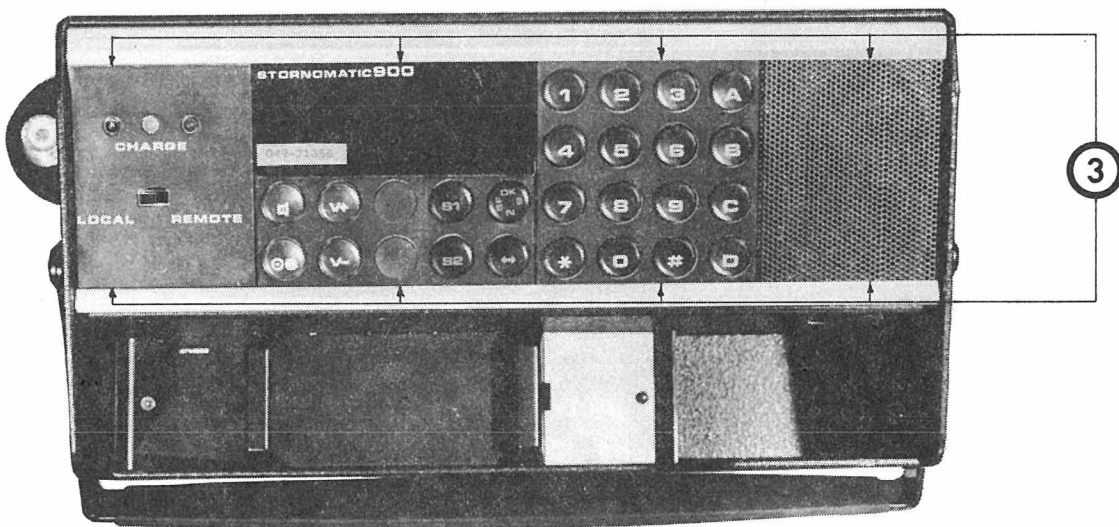
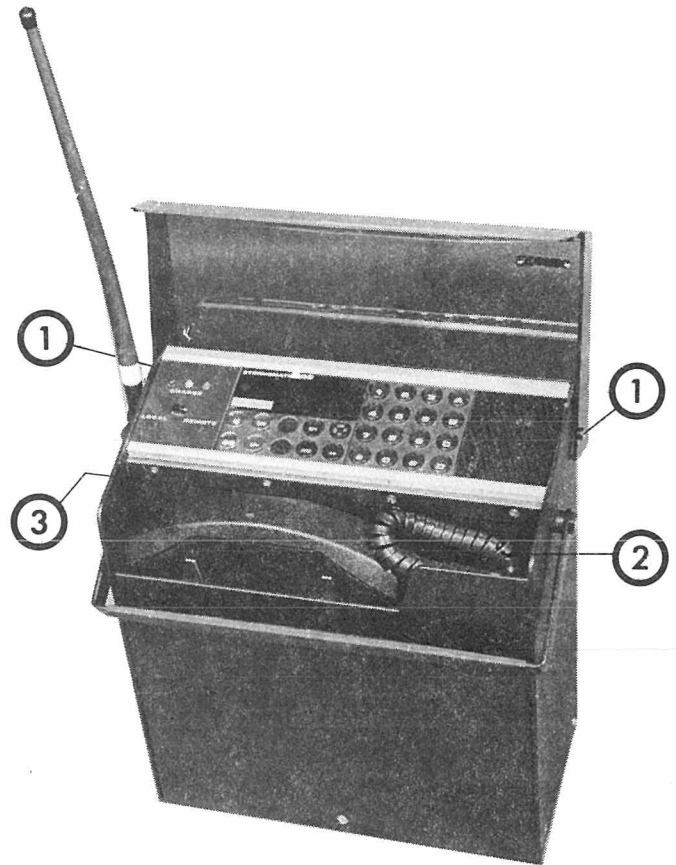
If the radio is not used for a period of more than 14 days it is recommended that the fuses in the bottom of the radio is removed. This will not affect the radio's memory contents of stored information, e.g. telephone numbers.



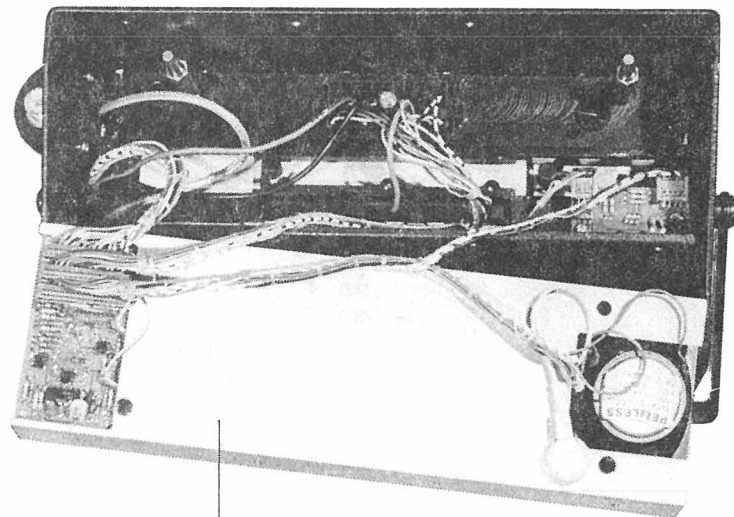
### DISMANTLING

For access to the radio's personality prom and the adjustable components the radio has to dismantled. The following instructions should be followed strictly.

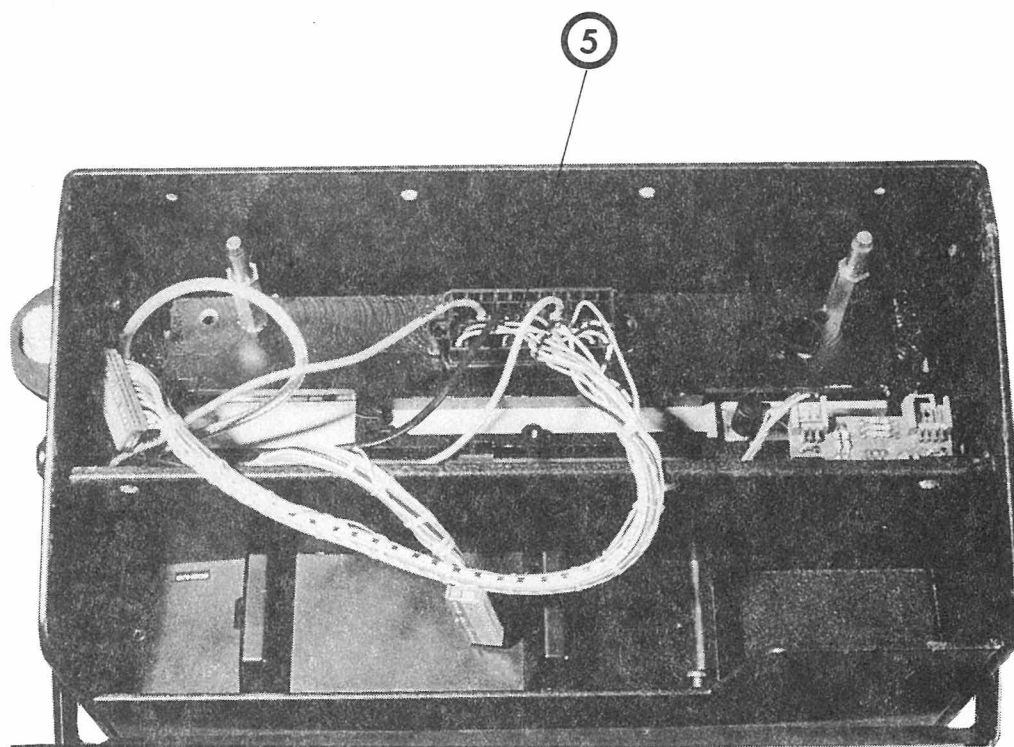
1. Remove the two screws in the lid and remove the lid.
2. Disconnect the handset cable from the socket in the handset retainer.
3. Remove the screws holding the control panel, first at the front then at the rear.



- 4. Lift the control panel for access to the connector below.
- 5. Remove the screw in the connector and unplug the cable loom.

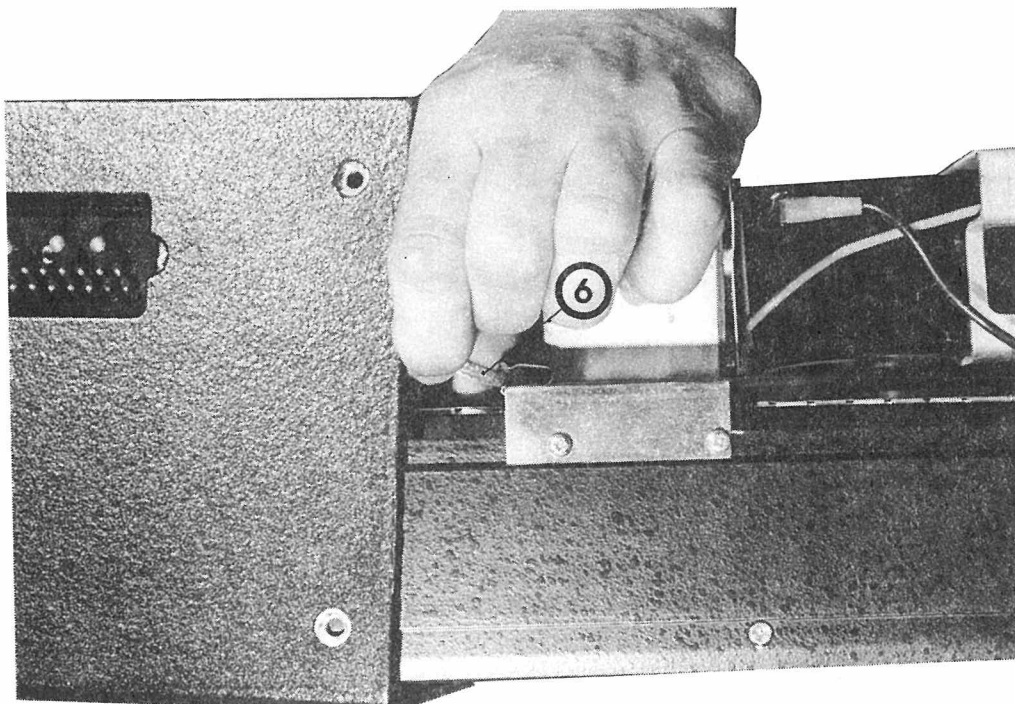
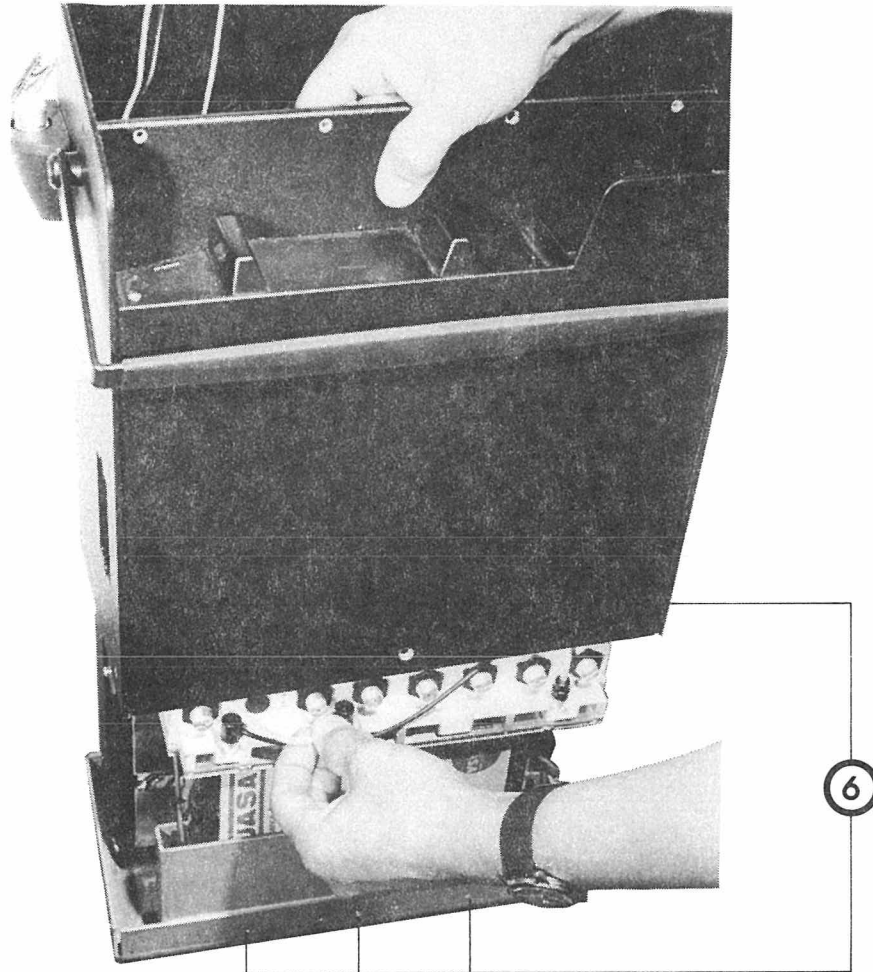


4

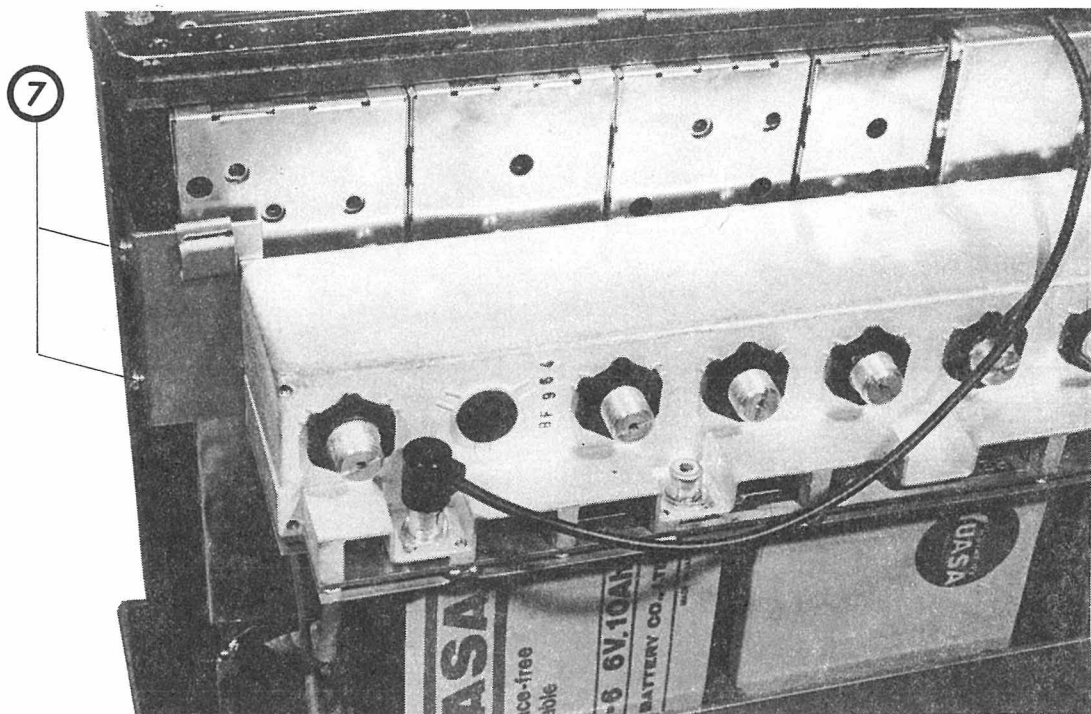
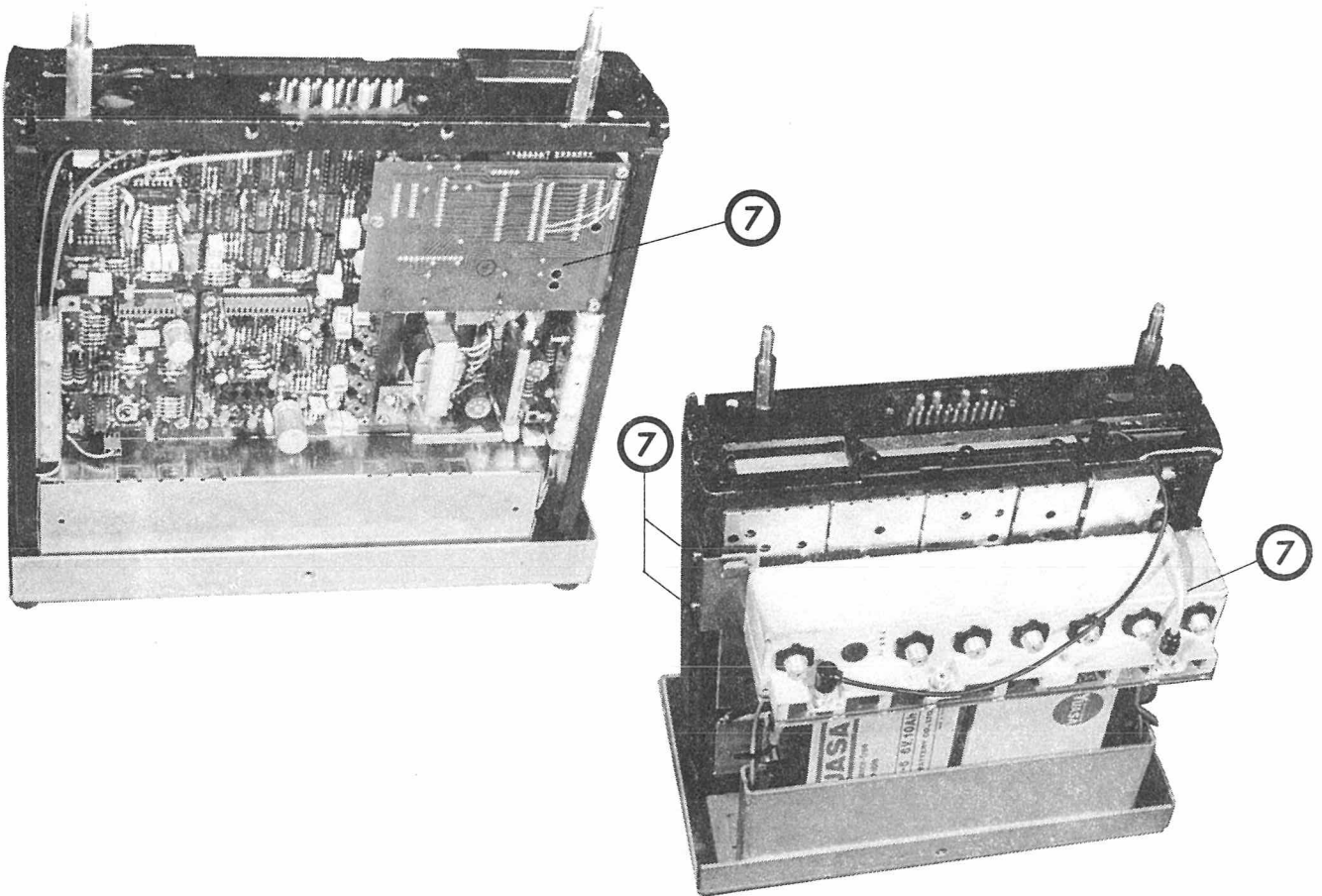


5

- 6. Remove the screws in the radio cabinet's lower edge and lift up the cabinet in the handle. Release the antenna cable from the clip and the connector on BF964. Remove the cover completely.



- 7. Unscrew the MM901 module for access to the personality prom or remove the BF964 for access to the RF modules.



Assembly of the radio is done by using the instructions in reversed sequence. Be careful not to strain the cable looms and damage the antenna cable.



## MOBILE INSTALLATION

The radio can be used in two types of mobile installation:

- A. Normal mobile installation with control head SC92, handset C9MT04 and junction box C9JB04. Optional a loudspeaker C9LS01 can be used.
- The radio is connected to an mobile antenna and the control cable, and the REMOTE/LOCAL switch is set to REMOTE.
- B. A mobile installation using a lighter plug and a magnet base antenna in which case the REMOTE/LOCAL switch is set to LOCAL and the built-in control head is used.

### CHARGING UNIT CU901

The charging unit is used to charge the built-in battery pack. The unit has facilities for charging from a 12 V/3 A source or a 12 V/10 A source. If the first is used the radio is, if turned on, powered by the internal battery and if the latter is used by the external source.

### SWITCHING UNIT AC901

The switching unit is used to indicate the battery's state of charge and to switch the control from local to remote.

Three LED's indicate the battery condition.

A RED diode will flash when the battery needs recharging.

A YELLOW diode indicates that charging is in progress.

A GREEN diode indicates that charging is complete.

The AC901 also has a timing circuit which turns the control head lights off 50 seconds after the last operation of a key.

## ACCESSORIES

The following accessories are available for the STORNOMATIC 900U:

L855515G1

CC917 Cable with lighter plug, 12 V/3 A

L855516G1

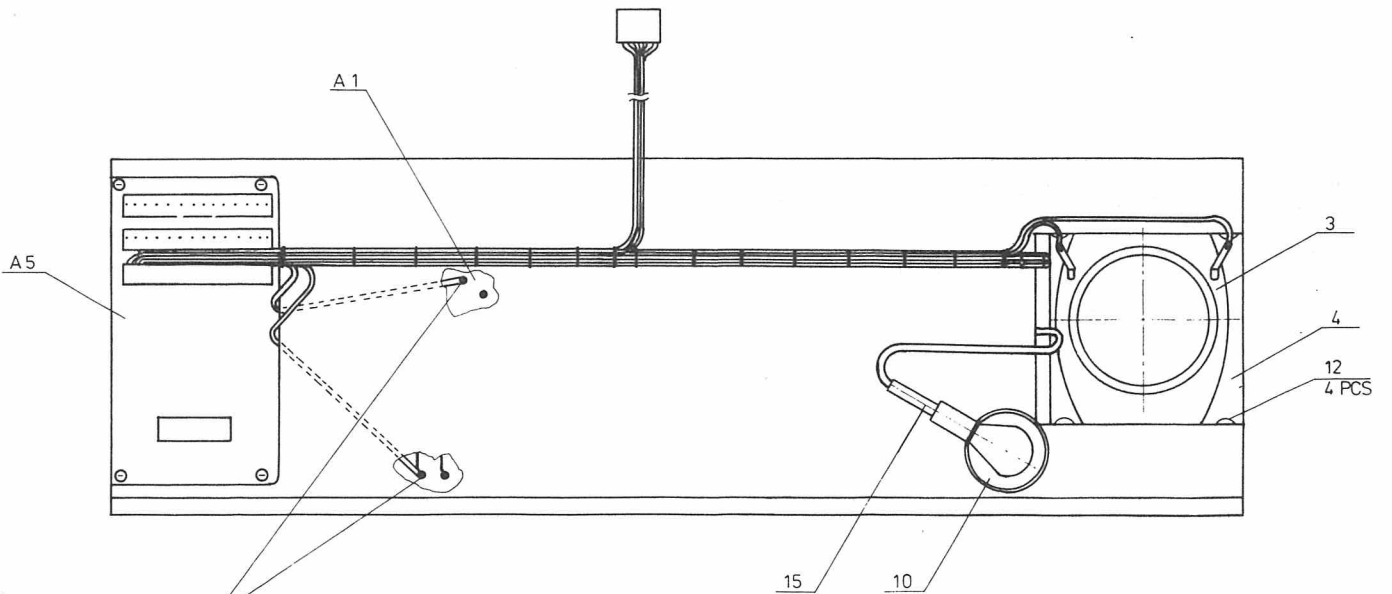
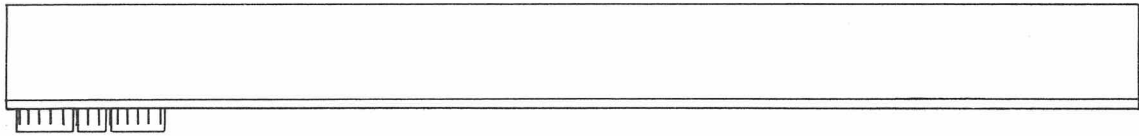
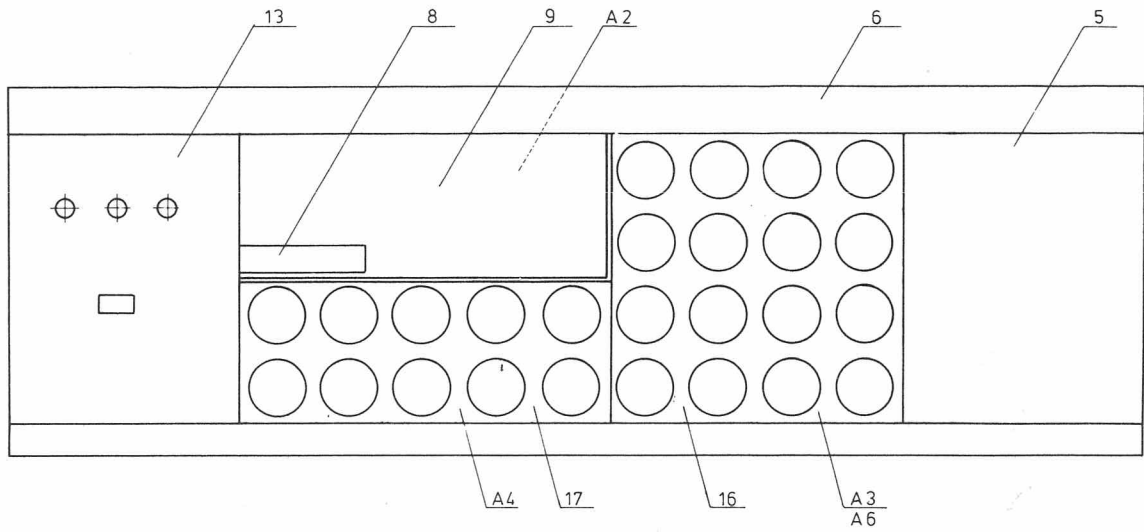
CC918 Cable for car battery or external power supply, 12 V/10 A

J708110G1

MN907 Mounting bracket for installation

L855514G1

CK901 Carrying strap



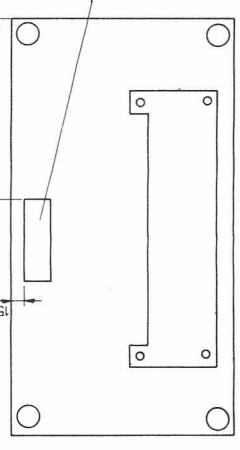
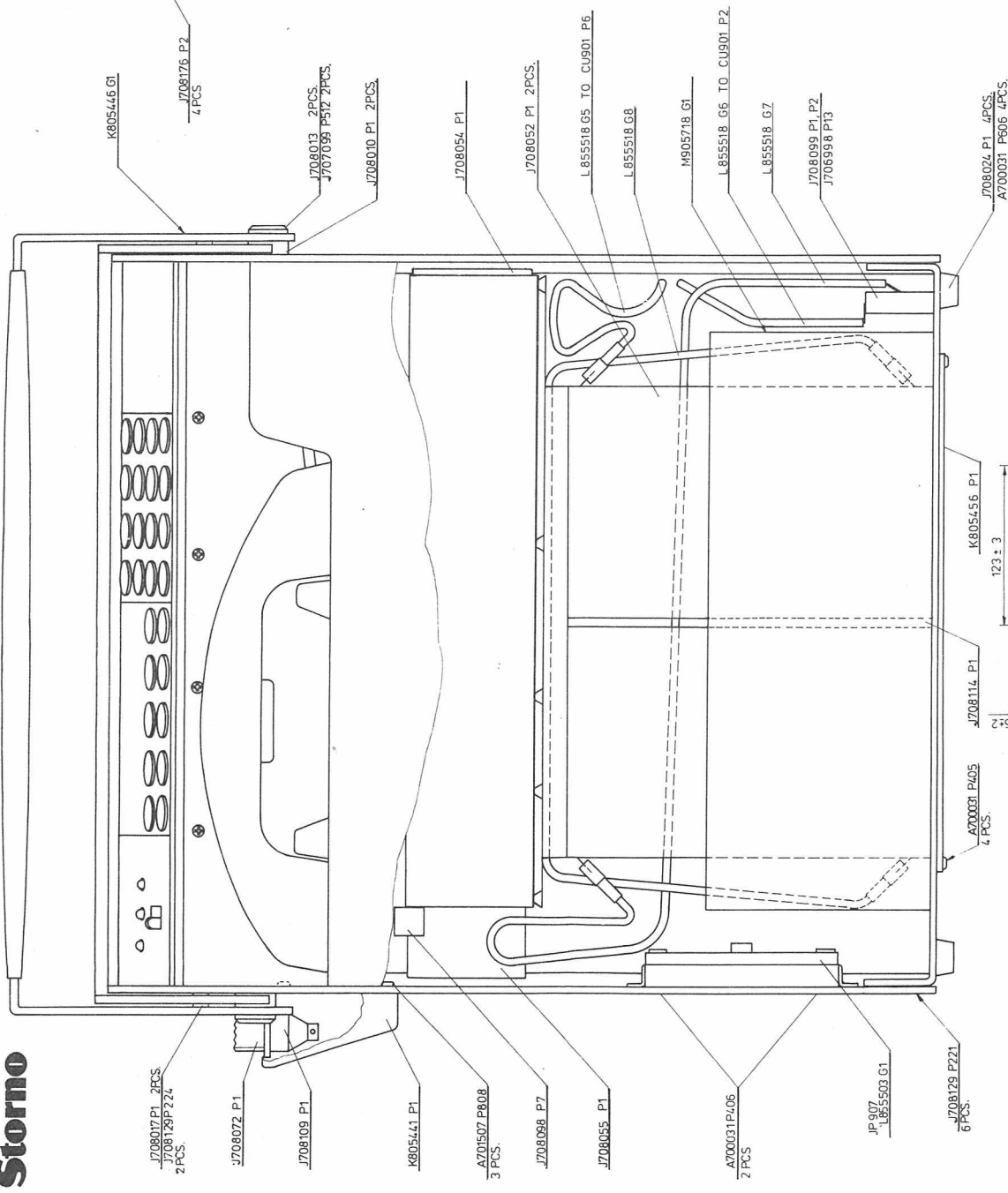
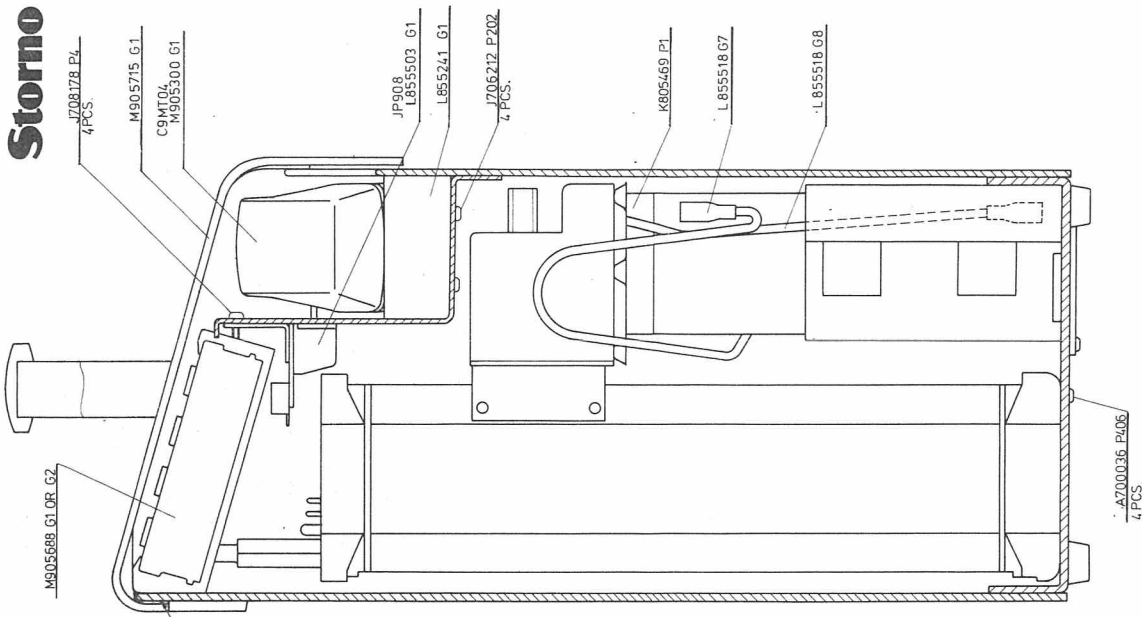
SOLDERING OF  
YELLOW/YELLOW-WHITE WIRE

STORNOMATIC 900U  
CONTROL HEAD ASSEMBLY

M405.120

**Storno**

**Storno**



J708178 P2  
4 PCS

J708013 2PCS  
J707098 P512 2PCS

J708010 P1 2PCS

J708054 P1

J708052 P1 2PCS

L 855518 G5 TO CU901 P6

L 855518 G8

M905718 G1

L 855518 G6 TO CU901 P2

L 855518 G7

J708099 P1 P2  
J706998 P13

J708024 P1 4PCS  
A700031 P506 4PCS  
A701312 P6 4PCS

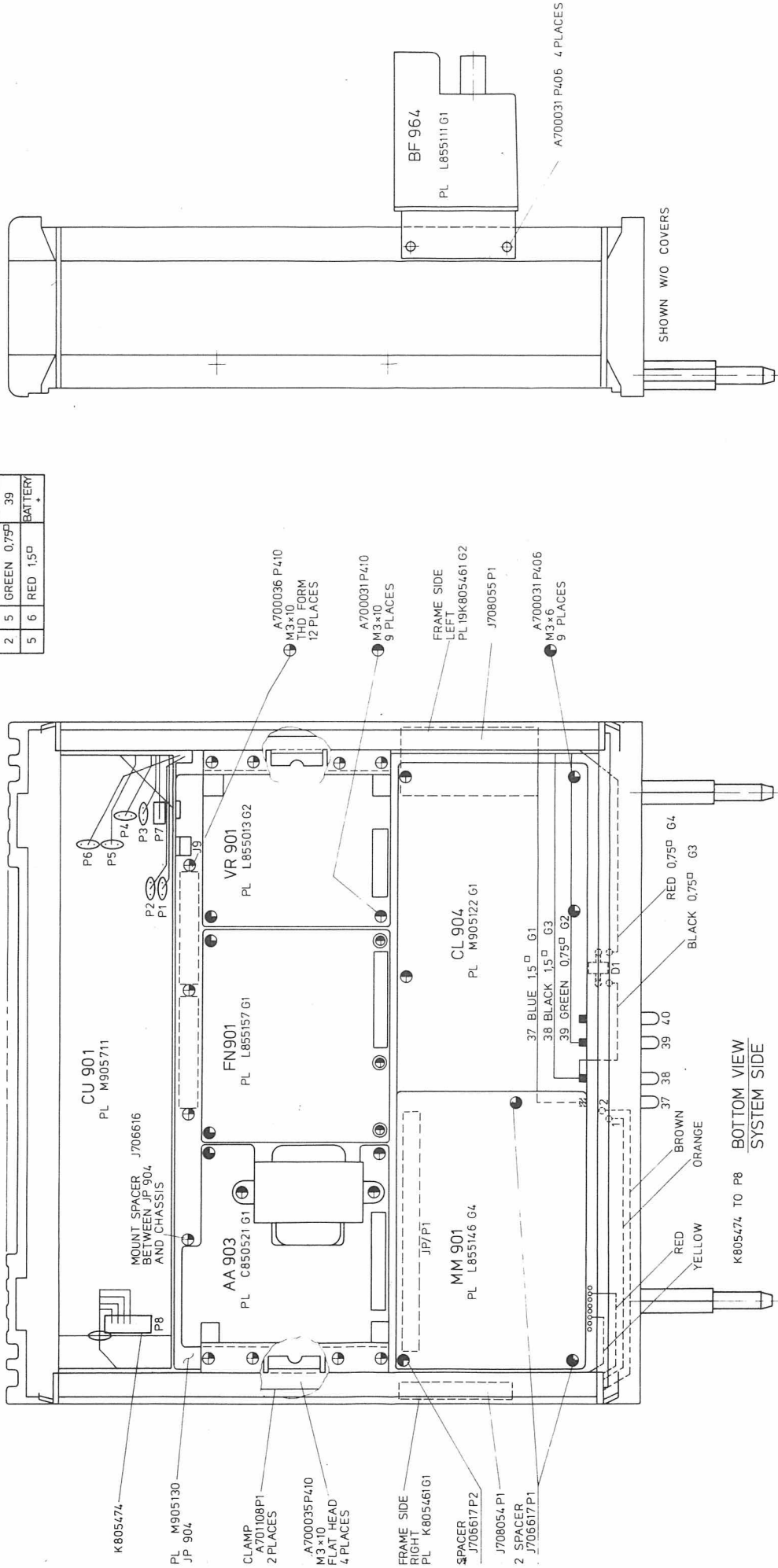
J706449 P1 OR  
J706441 P5

**BOTTOM VIEW**

**STORNOMATIC 900U  
RADIO ASSEMBLY**

**M405.121**

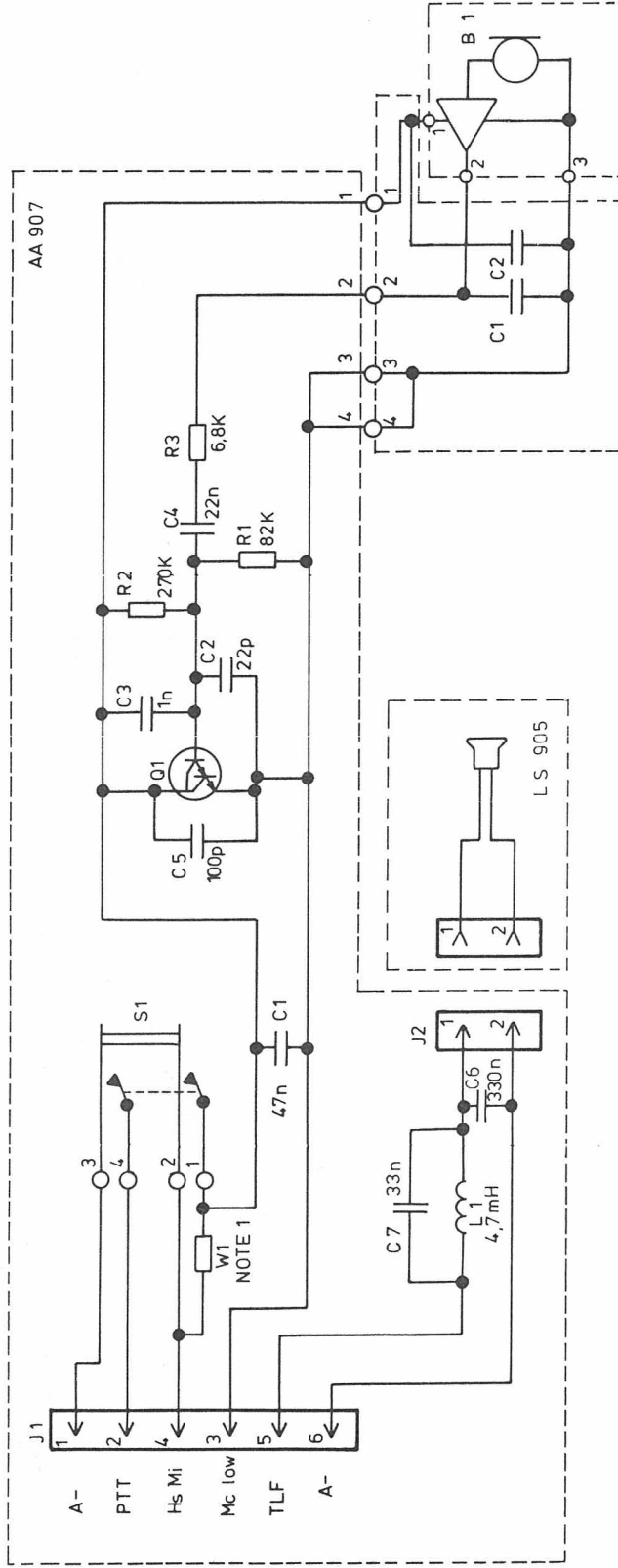
L 855518		
G	P	PIN.
3	1	BLACK 1.5 <sup>o</sup> 38
6	2	BLACK 1.5 <sup>o</sup> FUSE-BATTERY
4	3	RED 0.75 <sup>o</sup> D1
1	4	BLUE 1.5 <sup>o</sup> 37
2	5	GREEN 0.75 <sup>o</sup> 39
5	6	RED 1.5 <sup>o</sup> BATTERY



**STORNOMATIC 900U  
SYSTEM SIDE ASSEMBLY**

M405.122



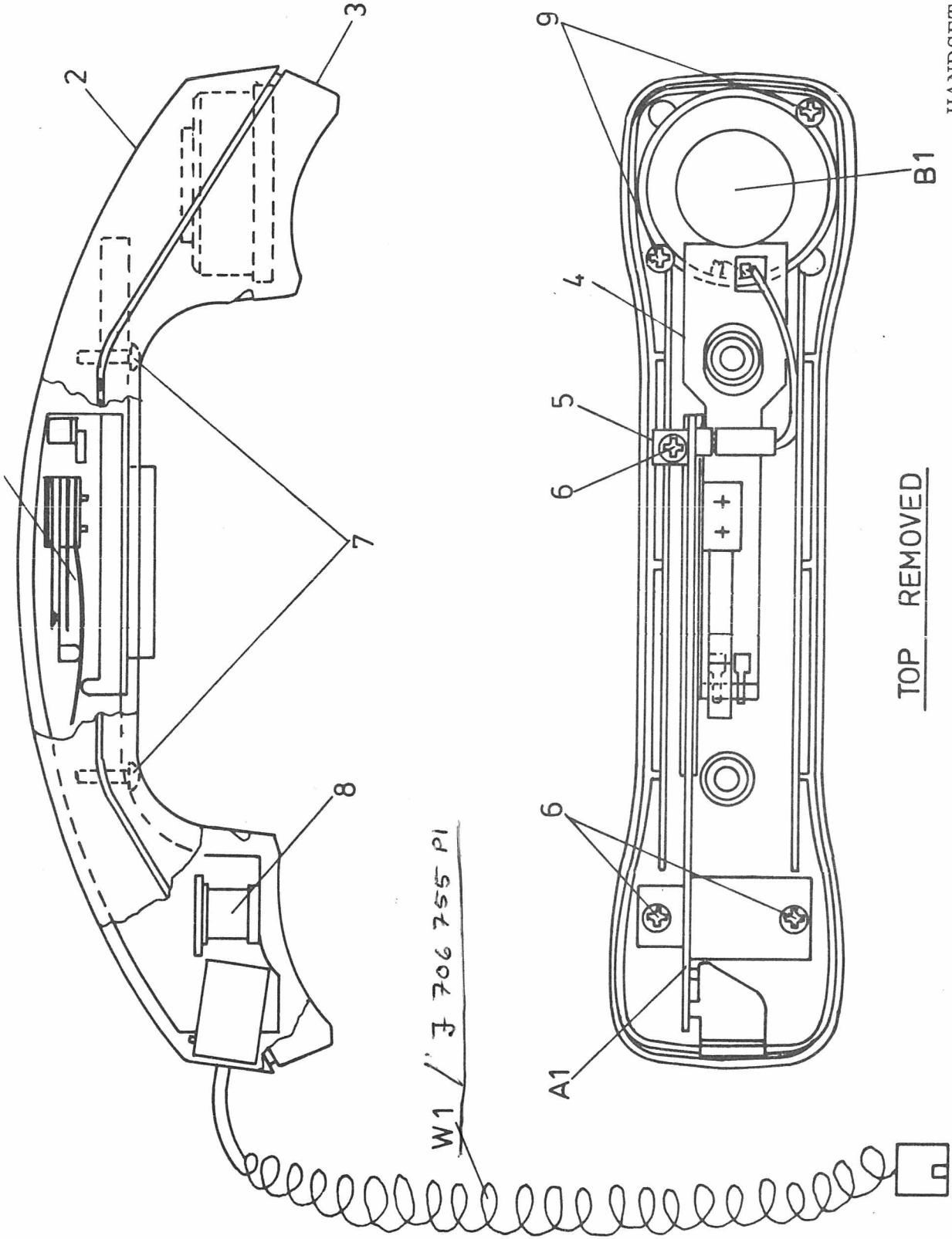


NOTE : 1: IF A SHORT-CIRCUIT OF HAND-SET SWITCH IS PREFERRED, THE JUMPER W1 SHALL BE ASSEMBLED INTO AA 907 BD PW.

HANDSET C9MT04  
K805300G1 D403.532

**Storno**

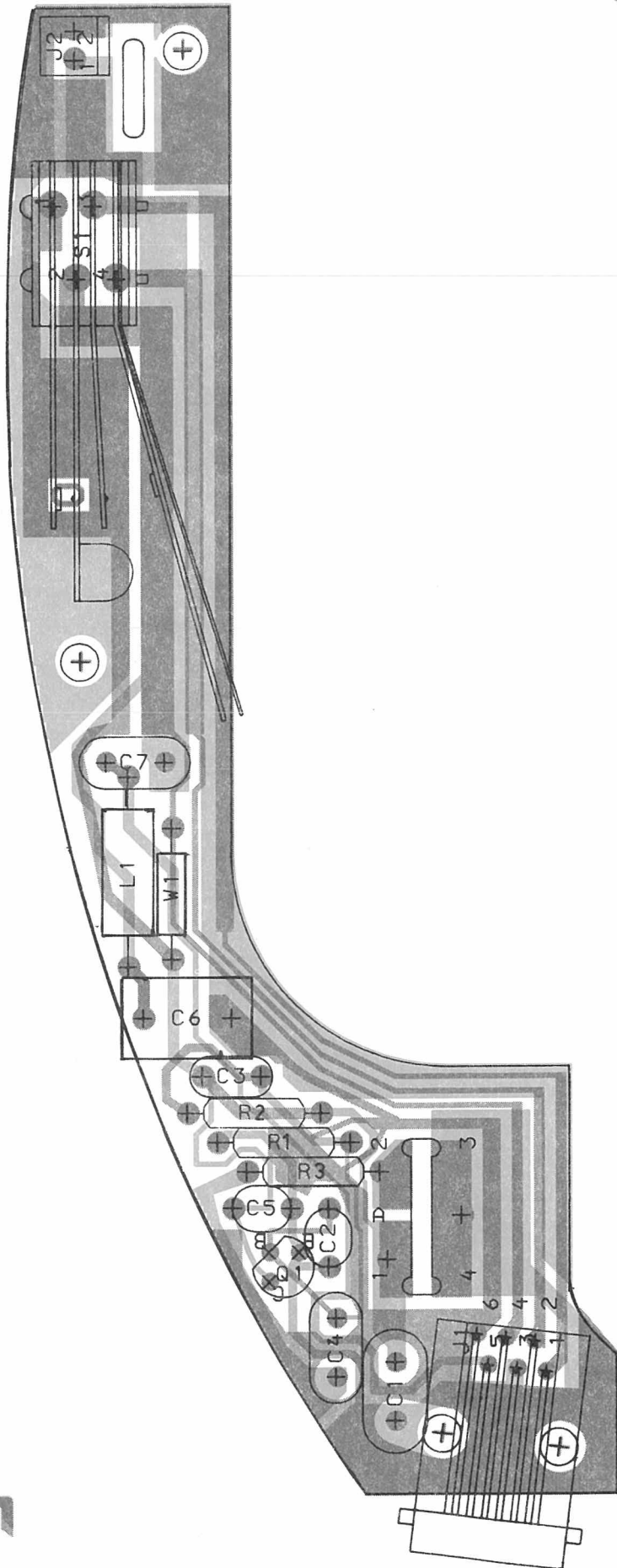
**Storno**



TOP REMOVED

HANDSET ASSEMBLY  
C9MT04 CODE K805300G1

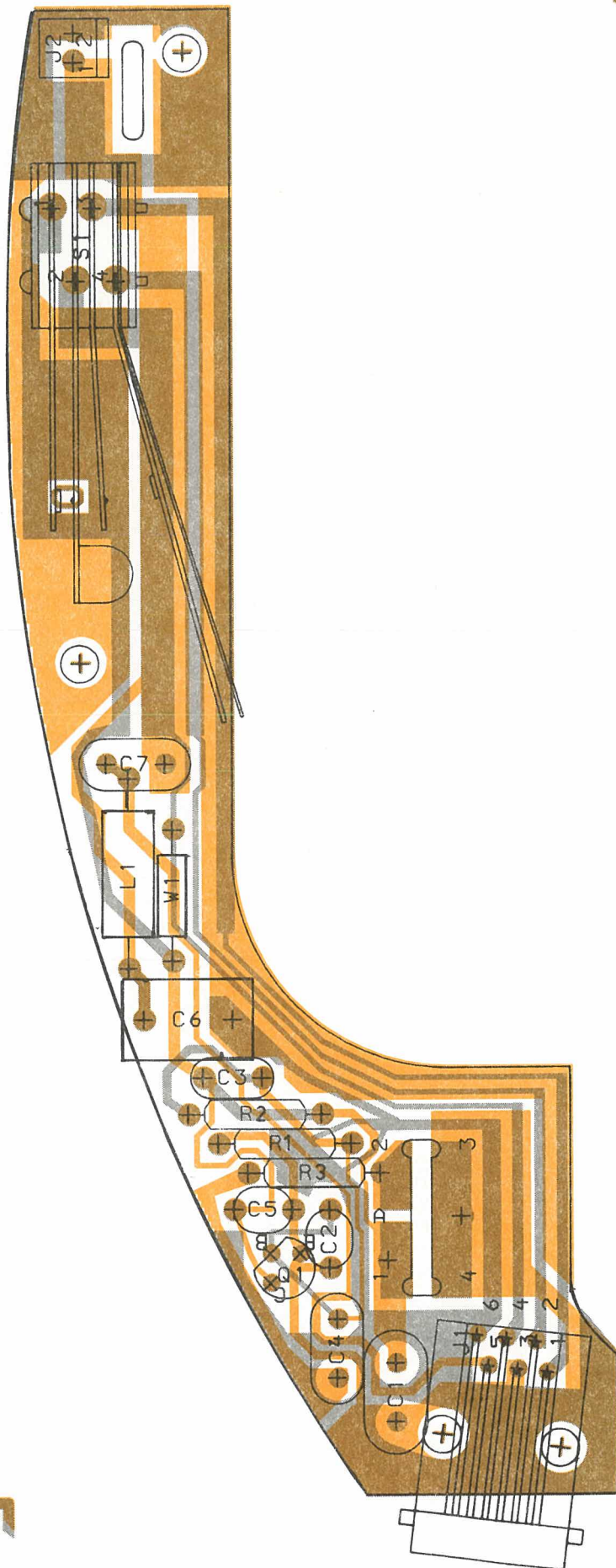
M405.124



HANDSET AMPLIFIER AA907  
COMPONENT LAYOUT  
M905392G1

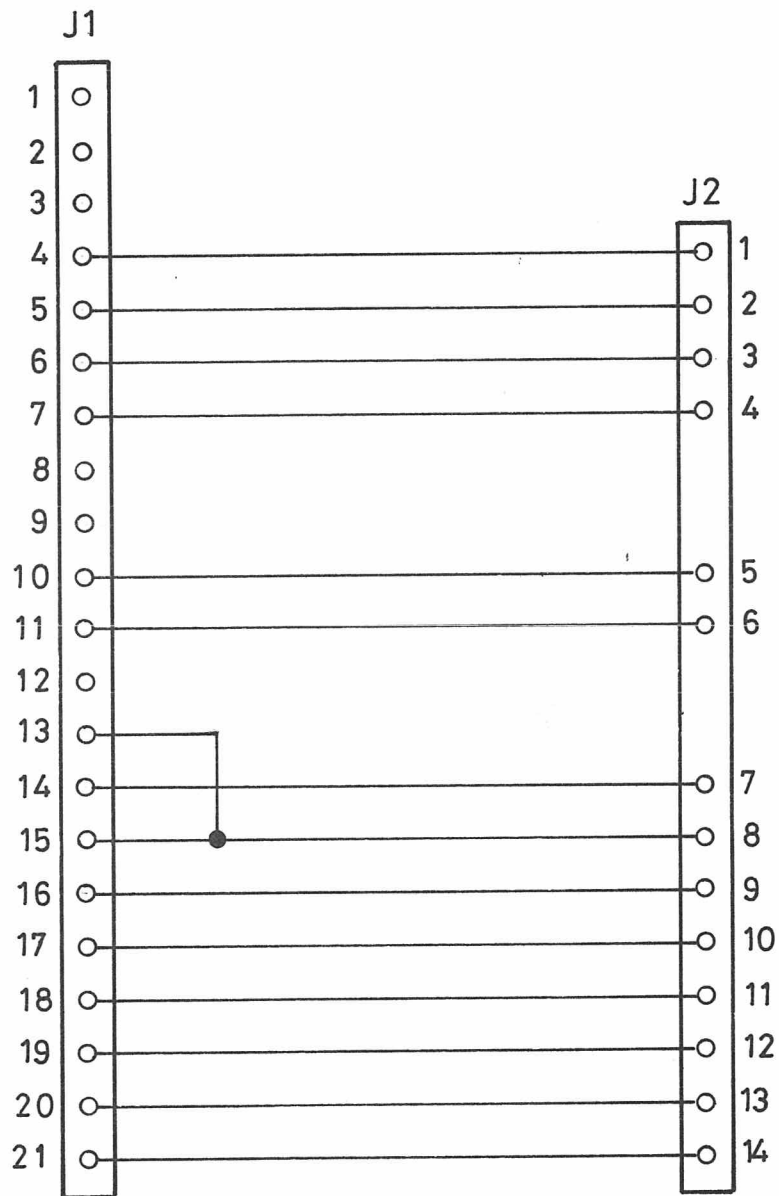
D403. 533





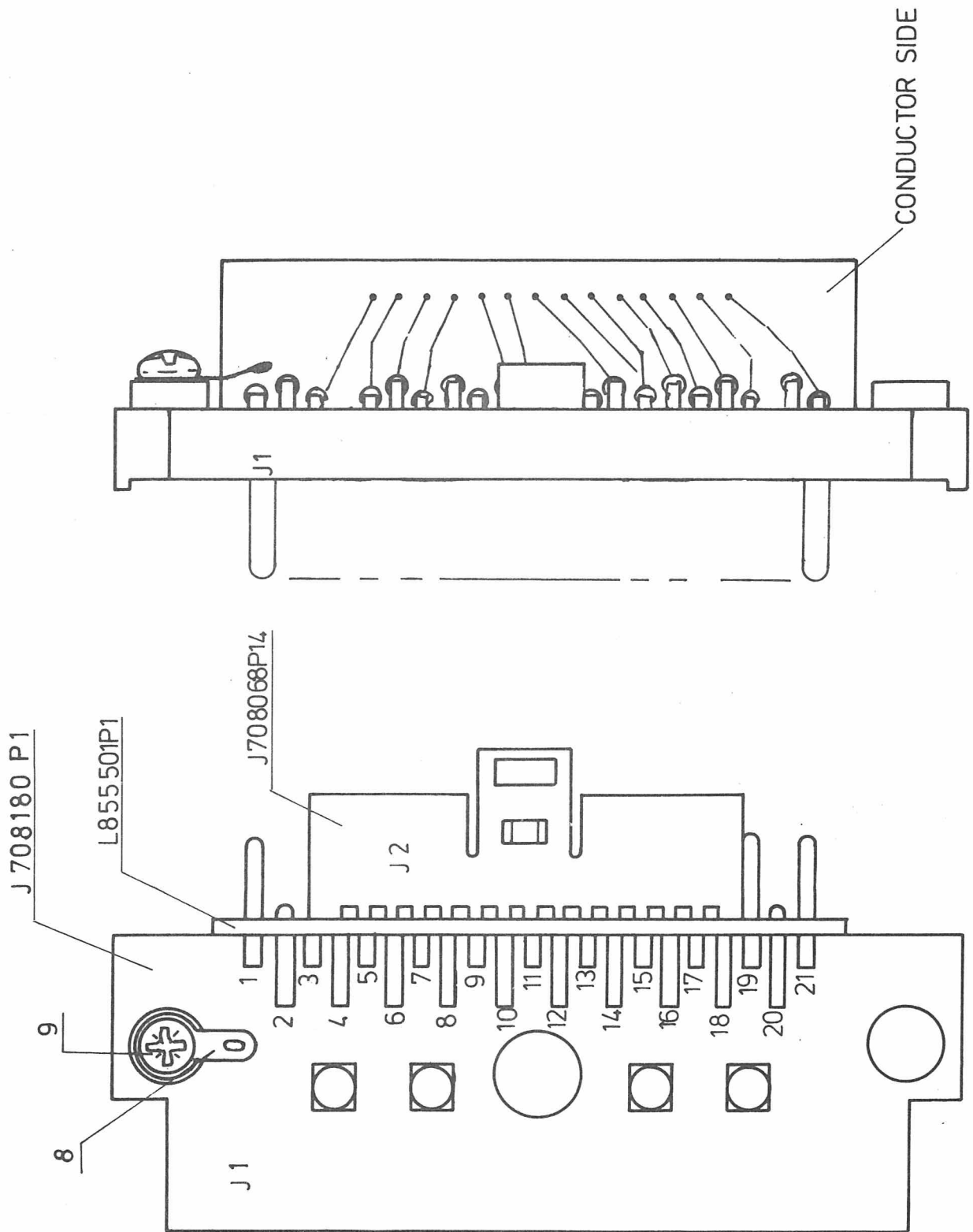
HANDSET AMPLIFIER AA907  
COMPONENT LAYOUT  
M905392G1

D403. 533



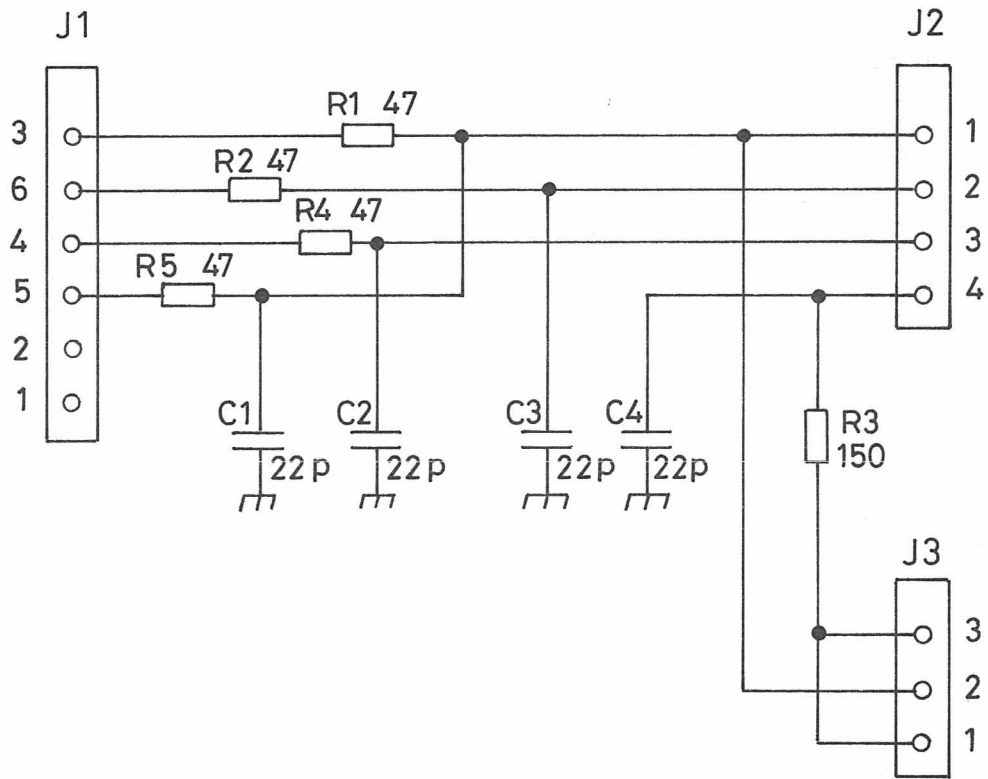
JUNCTION PANEL JP907  
COMPONENT LAYOUT  
L855500G1

D403.534



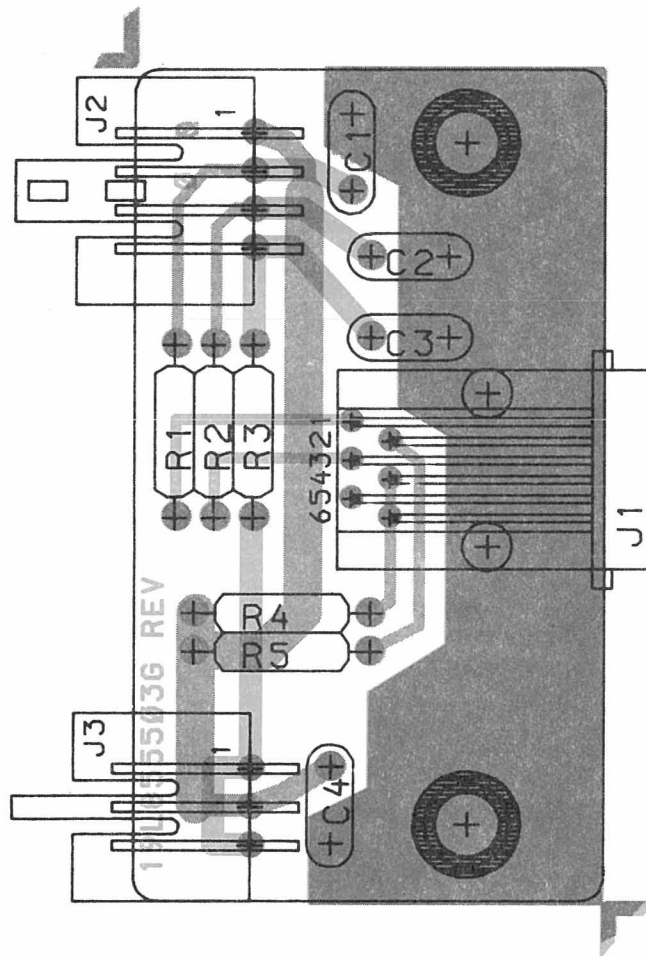
JUNCTION PANEL ASSEMBLY  
JP907 CODE L855500G1

M405.125



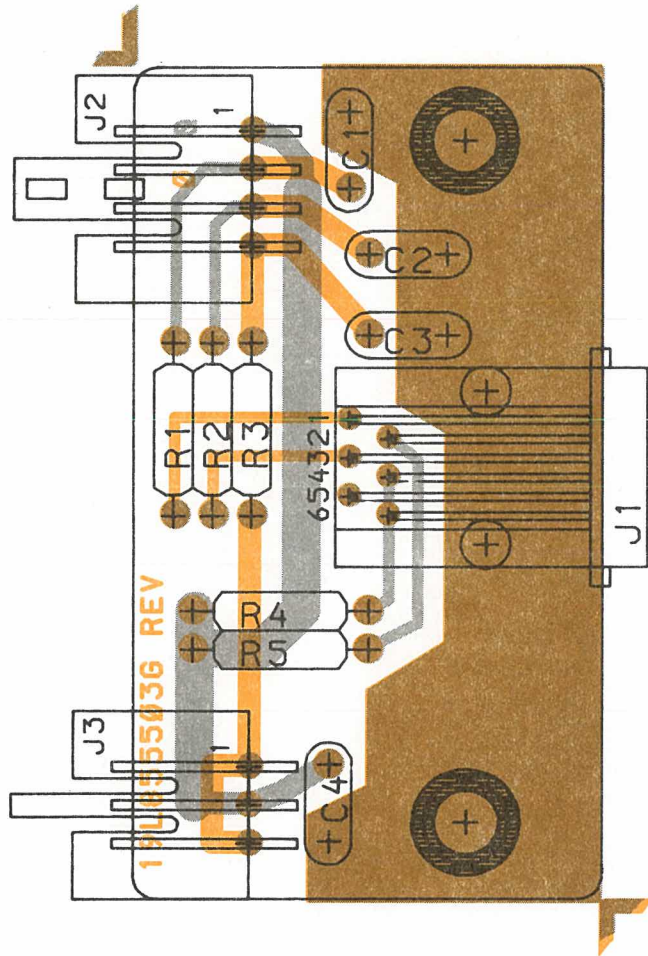
JUNCTION PANEL JP908  
L855503G1

D403.535



JUNCTION PANEL JP908  
COMPONENT LAYOUT  
L855503G1

D403. 536



JUNCTION PANEL JP908  
COMPONENT LAYOUT  
L855503G1

D403.536

## AC901

### SWITCHING UNIT

AC901 is a control circuit and junction panel in SP9 transportable NMT RADIO. Further a REMOTE/LOCAL switch is located on AC901 as well as a timing circuit to turn off the control unit's keypad illumination.

#### GENERAL DESCRIPTION

The control circuit monitors the battery condition and indicates by means of a red flashing LED when the battery is close to being discharged.

During the charging a yellow LED indicates that charging is going on.

When the battery is fully charged the yellow LED is turned off and a green LED indicates that the charging has been completed.

A timing circuit which receive CL pulses from the CONTROL UNIT, turns the illumination light on the CONTROL UNIT's keypad off and thereby reduces the power consumption. Whenever a key is touched the illumination light is turned on and turns the light off approx. 50 sec. after the last operation of a key.

Operating the radio from either the CONTROL unit (LOCAL) or the car installation (REMOTE) can be done with the REMOTE/LOCAL switch which is placed on the AC901 printed wiring board.

#### CIRCUIT DESCRIPTION

##### Voltage sensor

Comperator U1b compares Vbb with a reference voltage and when Vbb becomes lower than  $11.25 \text{ V} \pm 2\%$  the output of U1b will go high.

##### Flasher

The output of U1b is connected to U1a which forms an asymmetrical mark-space multivibrator. When the output of U1b goes high the multivibrator U1a will start and the red LED D4 will flash.

##### Charge indicator

When the radio is re-charged the charging voltage is connected to Q2 via connector J2 pin 1 and D7. Q2 will be ON and the yellow LED D6 will indicate that charging is going on until the battery is fully charged.

##### Battery condition

When the charging is complete +13 V will come from CU901 to connector J2 pin 14 and supply the green LED D5 which will indicate that charging has completed. At the same time Q2 and yellow LED D6 will turn off.

##### Timing circuit

When the CONTROL UNIT's keypad is operated 20 uS clock pulses arrive via connector J1 pin 4 and C3 to Q3 which then will discharge C2 and the output of U1c will go high and via connector J1 pin 14 turn on the keypad illumination.

The illumination will be kept until approximate 50 sec. from the last entry on the keypad. C2/R14 are timing components.

##### Interfacing

J1, J2, J3 and S1 connect the radio either for LOCAL or REMOTE CONTROL.

## TECHNICAL SPECIFICATIONS

### Battery voltage

V<sub>bb</sub>: 10.8 - 15.6 V

### Current Consumption

At 12 V, NO charging 7 mA ± 10%  
 At 12 V, charging 25 mA ± 10%  
 At 11 V, NO charging 6/50 mA ± 10%

### Voltage Sensor/Flasher

Threshold for flashing: 11.25 V ± 2%  
 Flashing frequency: app. 1.4 sec.

### Mark - Space ratio for flasher

app. ON 40 ms  
 OFF 1360 ms

### Timing Circuit

Time duration from last key entry 60 sec. ± 50%

### Indicators

Discharged battery red LED  
 Charging going on yellow LED  
 Charging completed green LED

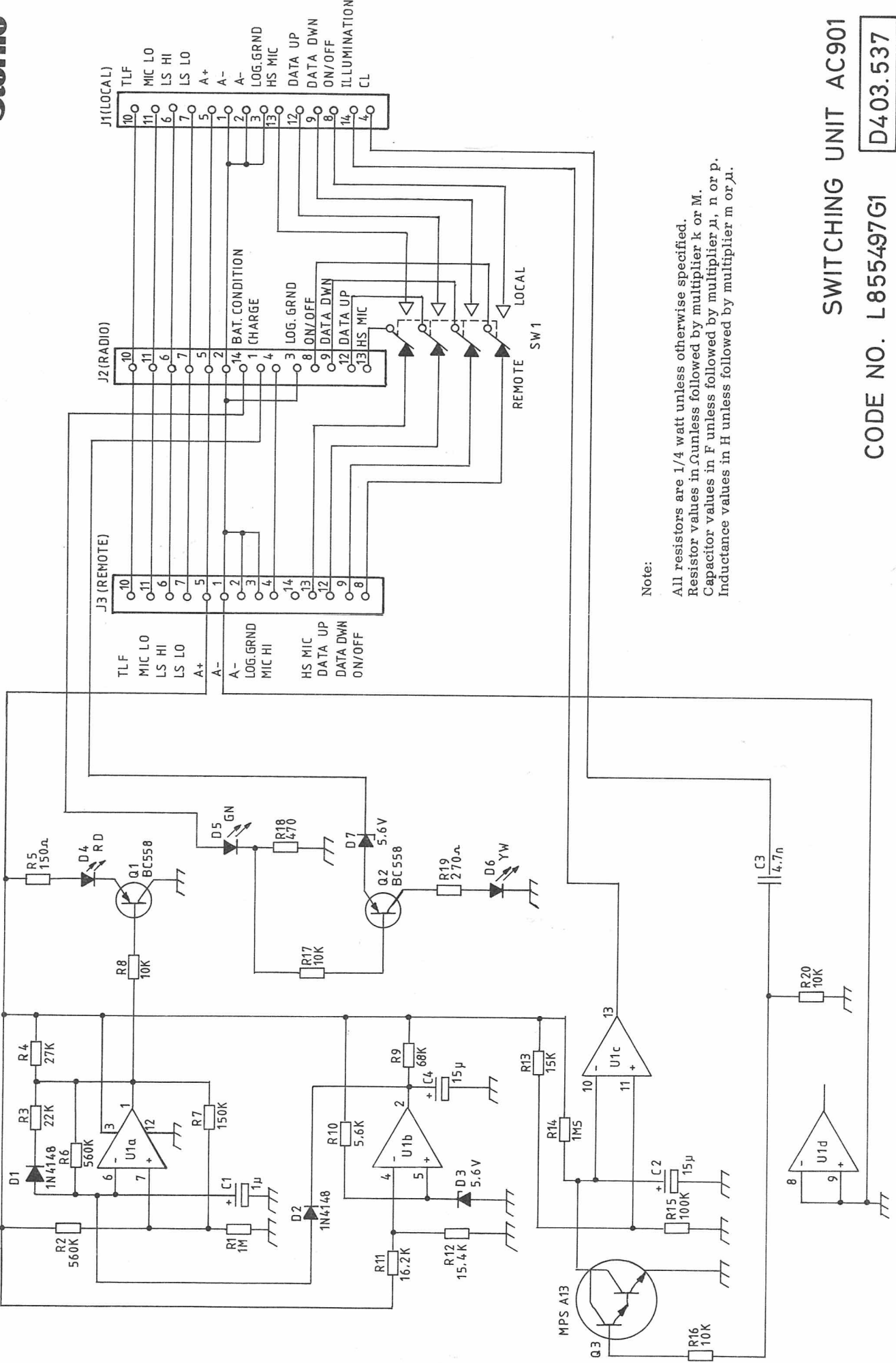
### LOCAL/REMOTE selector

Select either LOCAL or REMOTE control for the radio.

### Temperature range

-25°C to +55°C

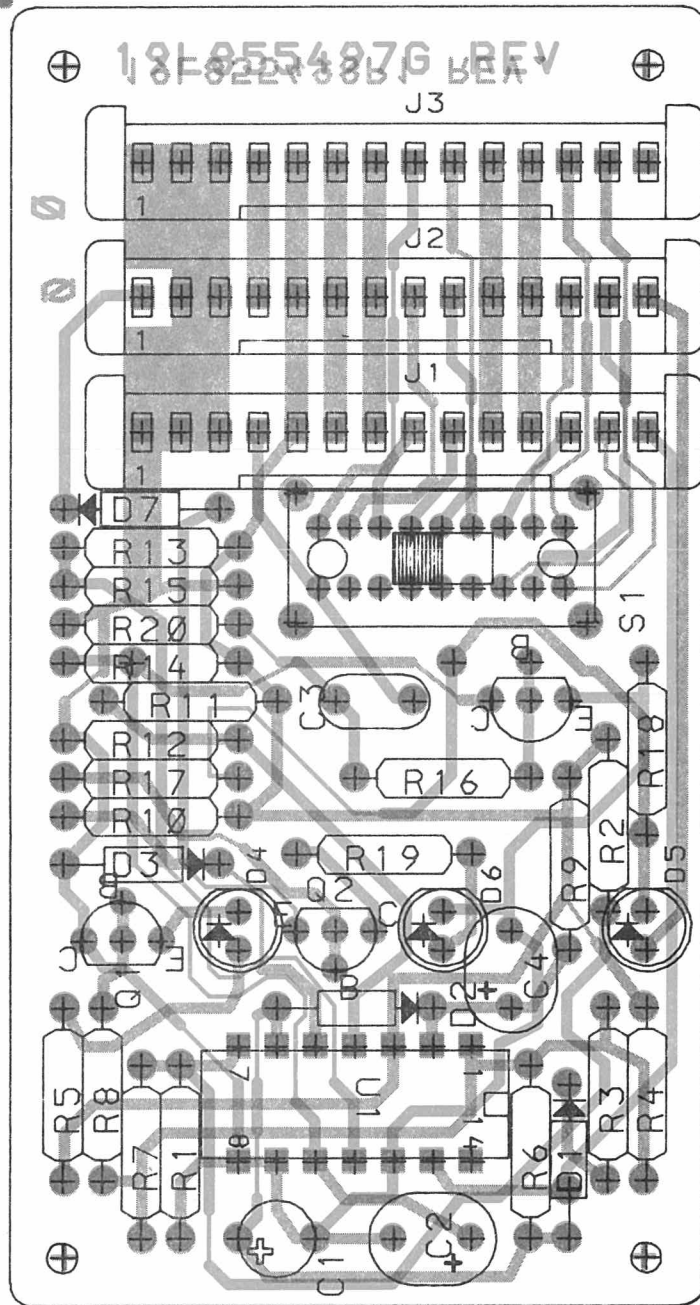




SWITCHING UNIT AC901

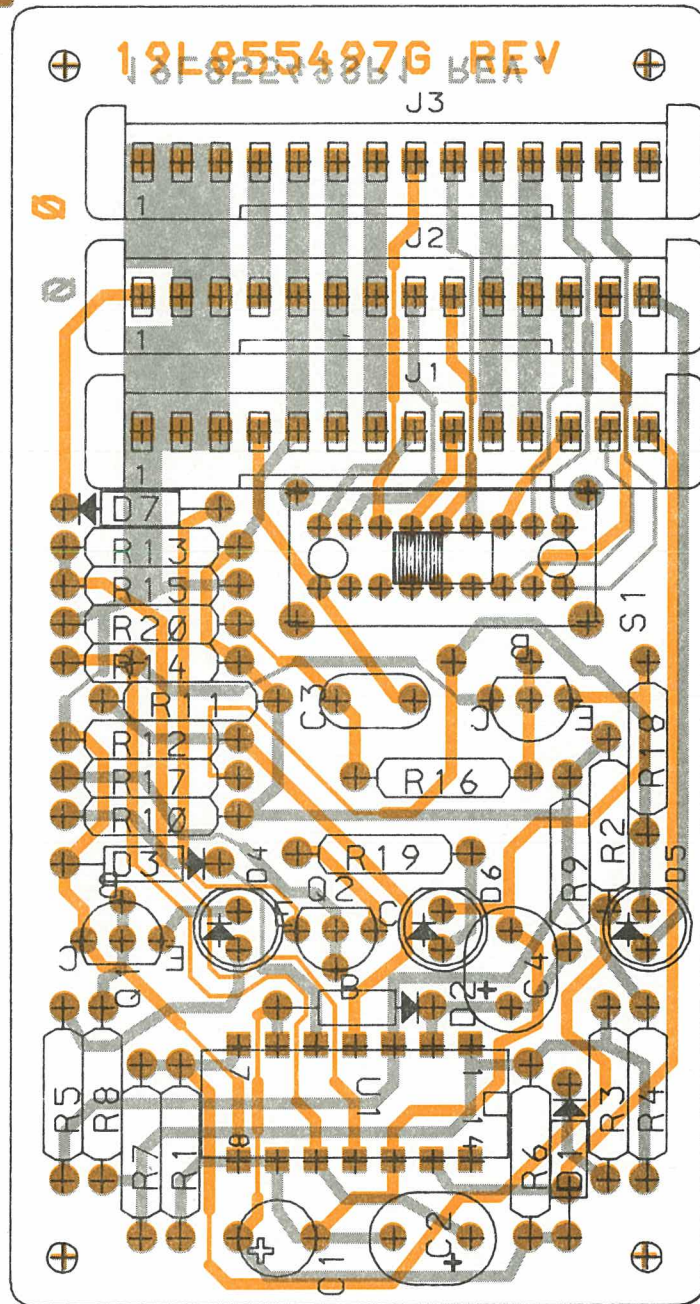
CODE NO. L855497G1

D403.537



SWITCHING UNIT AC901  
COMPONENT LAYOUT  
L855497G1

D403. 538



SWITCHING UNIT AC901  
COMPONENT LAYOUT  
L855497G1

D403.538
----------

## CU901 CHARGING UNIT

The CU901 unit is designed for charging the internally mounted lead-acid 12 V 9.5 Ah battery. With an external 12 V 3 A power source connected to the "medium power" input terminal the battery is charged by the CU901 unit and the radio is powered from the battery. With an external 12 V, 10 A power source connected to the "high power" terminal the battery is charged by the CU901 unit, and the radio is then powered directly from the external source. The unit is reverse polarity protected by means of diodes.

### FUNCTIONAL DESCRIPTION

The charging characteristic as a function of time is shown in Fig. 1.

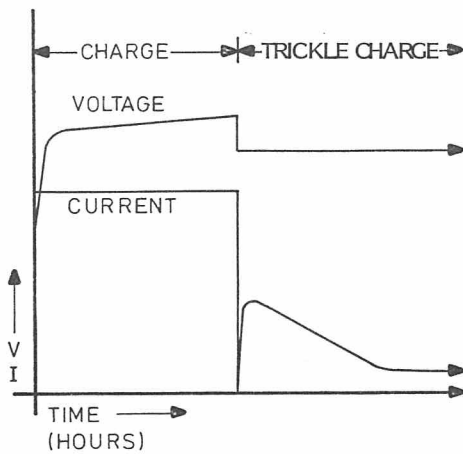


FIGURE 1 D403.542

#### Radio in the "on" condition

This begins in a constant current state until the battery terminal voltage reaches the cut-off point (ca. 90% full charge). At this point the charging state changes to constant voltage which provides trickle charging.

#### Radio is in "off" condition

Charging ceases after the constant current period i. e. the charging unit switches itself off.

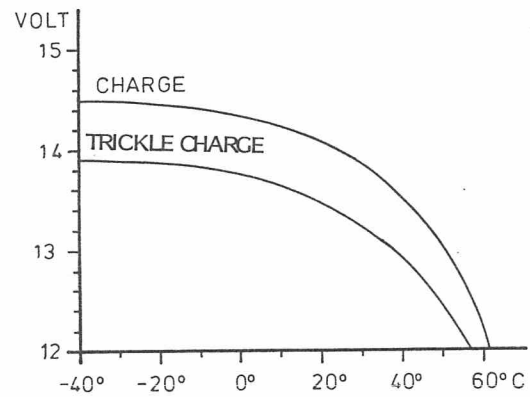


FIGURE 2 D403.542

Fig. 2 shows the values for end of charge and trickle charge voltages as a function of temperature.

Charging unit CU901 is used in conjunction with unit AC901 which provides charge condition information. This information is provided by means of three LED's.

The red diode (Flashing) indicates discharged state i. e. charging is necessary.

The yellow diode (constant) indicates constant current charging.

The green diode indicates fully charged condition trickle charging in progress.

The time for charging a fully discharged battery depends on whether or not the radio is on or off ("medium power" input terminal).

- With the radio switched ON, the charging time is approx. 14 hours.
- With the radio switched OFF the charging time is approx. 8 hours.

When the unit is powered via the "high power" terminal the charging time for a fully discharged battery is always approx. 8 hours.

If the battery is only partially discharged the charging time is shorter.

## CIRCUIT DESCRIPTION

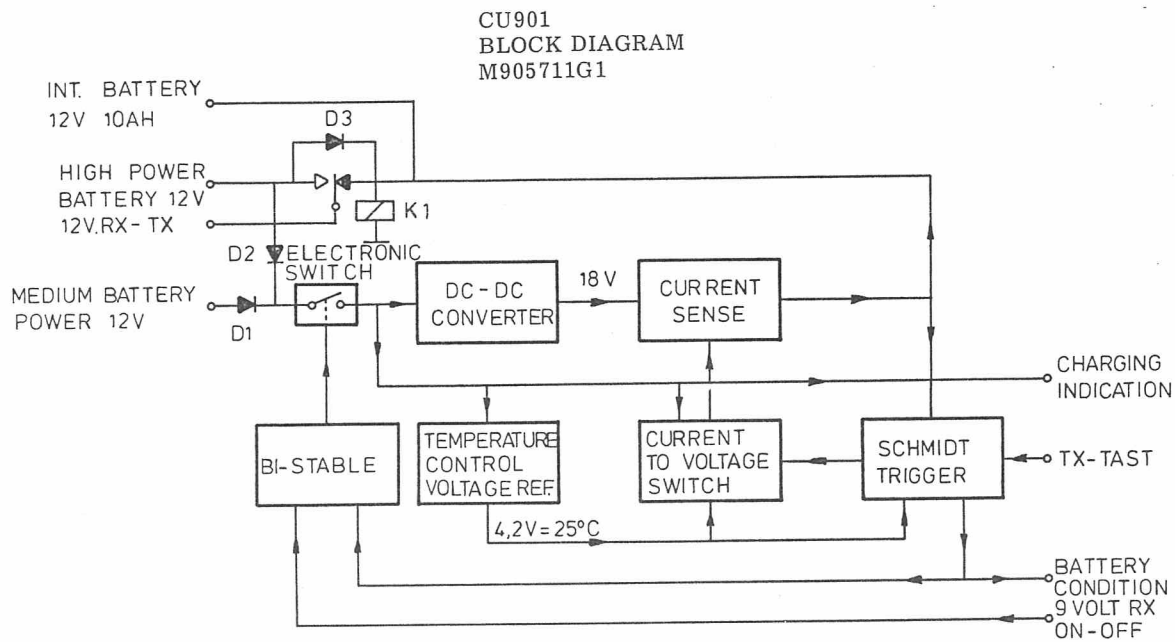


FIGURE 3

D403.539

Polarity protection

Diodes D1, D2, D3 provide reverse polarity protection.

Relay K1

K1 is a relay which senses the power input terminal used, "high" or "medium".

The relay either provides a direct connection to the external (high) power source or powers the radio from the internal battery with charging from an external "medium" power source.

DC-DC converter

Charging a 12 V battery directly from a 12 V source is impossible.

The 12 V source is therefore increased by 6 V by means of a DC-DC converter.

The converter consists of T1, Q1, Q2, D4, D5.

Electronic switch

Charging takes place with the radio switched ON or OFF. In OFF condition, when the battery becomes fully charged, Q3 switches OFF the DC-DC converter, isolating the CU901 unit from the external power source.

Bi-Stable

Q4 - Q5 form a Bi-stable multivibrator which is controlled by the Schmitt Trigger on +9 V RX. The Bi-stable circuit is used to provide a control signal for the electronic switch which determines whether or not trickle charging should take place.

Schmitt Trigger

Q12 - Q13 from a Trigger circuit which monitors the "battery under charge" voltage. When the Trigger point is reached the charger changes from the constant current to the constant voltage state.

If the transmitter is keyed the charger automatically provides a new constant current charging period. If the radio is switched OFF trickle charging does not take place.

Constant-current to voltage switch

Q9 - Q10 switch Q8 from a constant current to a constant voltage condition when Q12 of the Schmitt Trigger is ON.

(See Fig. 1).

Current sense

When Q9 is OFF R10, Q7 and Q8 function as a constant current source.

When Q12 is ON Q8, Q9 and Q10 function as a constant voltage source.

Temperature controlled voltage reference

Network R11-12-13-D8 provides a temperature dependant voltage reference for the end of charge Trigger points. Q6 is a temperature compensating buffer.

## TECHNICAL SPECIFICATIONS

Input voltage

Nominal: 12 VDC

Minimum: 10.8 V

Maximum: 15.6 V

Input current:

Without load: 180 - 240 mA

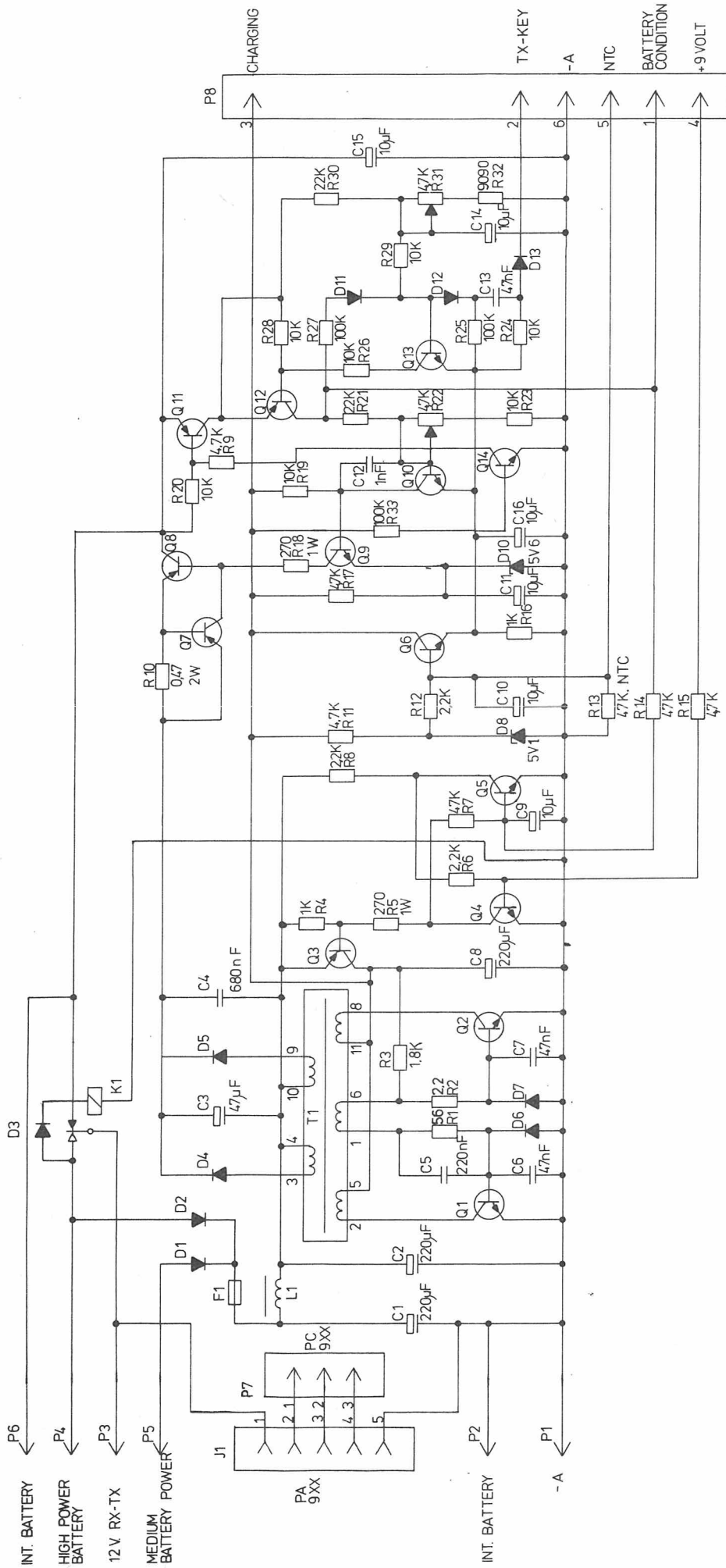
With load: 2.5 - 3.5 Amp

Output current:

1.3 - 1.8 Amp.

Temperature range

-25°C to +55°C

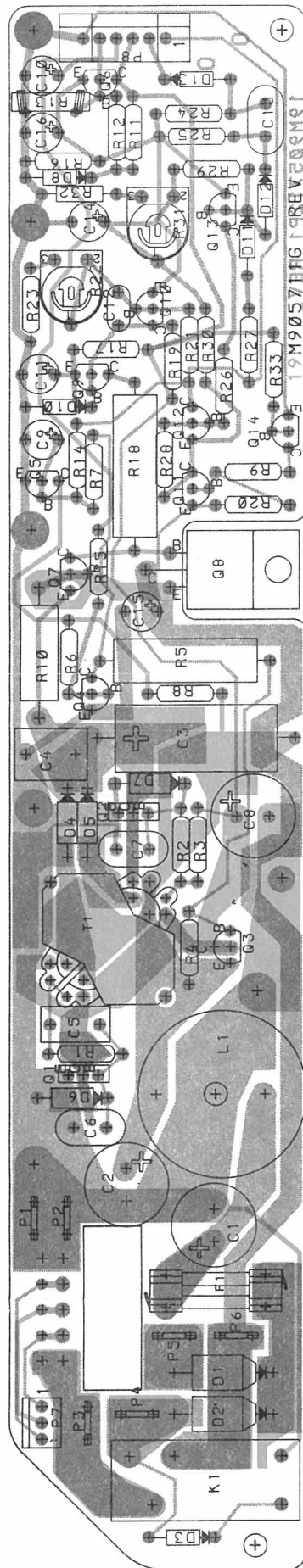


Note:

All resistors are 1/4 watt unless otherwise specified.  
Resistor values in  $\Omega$  unless followed by multiplier k or M.  
Capacitor values in F unless followed by multiplier  $\mu$ , n or p.  
Inductance values in H unless followed by multiplier m or  $\mu$ .

CHARGING UNIT CU901  
M905711G1

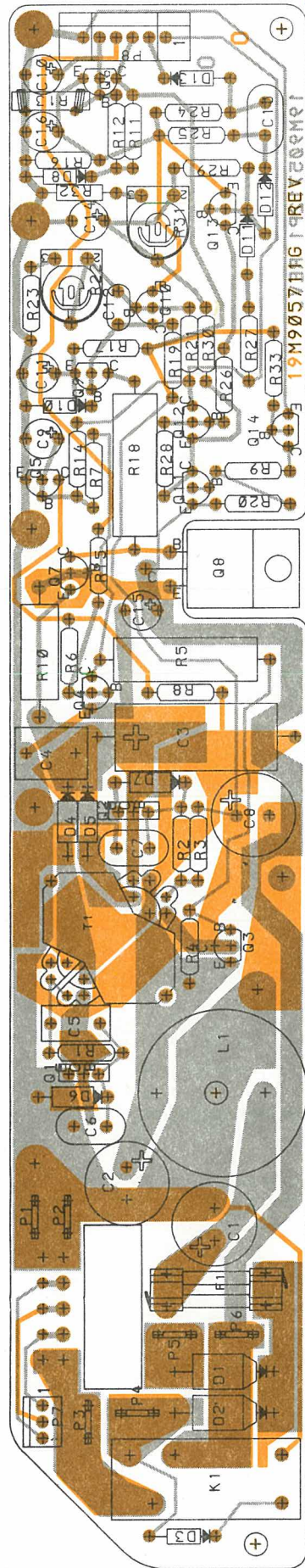
D403.540



19M9057HFG 14REV200MRT

CHARGING UNIT CU901  
COMPONENT LAYOUT  
M905711G1





CHARGING UNIT CU901  
COMPONENT LAYOUT  
M905711G1

D403.541

ITEM NUMBER	DESCRIPTION
M905690G1	NMT RADIO DENMARK

COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
MODULES:			
A001	C850521G1	AA 903 5W	1
A002	L855358G1	AA 908	1
A003	L855111G1	BF 964	1
A004	M905122G1	CL 904	1
A005	M905711G1	CPNT BD PW CU 901	1
A006	L855157G1	FN 901	1
A007	C850527G1	FS 901 25KHZ CHANNELS	1
A008	M905130G1	JP 904	1
A009	L855146G4	MM 901 MEMORY EXPANSION	1
A010	M905720G1	PA 9612	1
A011	M905002G1	PL 961	1
A012	M905003G1	PL 962	1
A013	L855055G1	RC 963	1
A014	L855013G1	ASM PWB VR 901	1
A015	D900065G23	XO 9011 10PPM	1
A016	A701453G5	XO 905 RX LS 5PPM	1
A017	A701453G11	XO 906 TX PLL 5PPM	1
* A018	M905688G1	C U DK-N	1
CONTROL PANEL:			
A001	M905165G1	ASM BD PW CB 90X	1
A002	L855197G1	ASM DIS BD CB 90X	1
* A003	L855176G2	ASM KEY BD CB 90X=DK-N	1
A004	L855177G4	ASM KEY BD CB 90X	1
A005	L855497G1	AC 901	1
0003	J707712P4	LOADSPEAKER	1
0004	J708078P1	HOLDER LOADSPEAKER	1
0005	J708077P1	GRILL LS	1
0006	L855492G1	EXTRUSION MACHINED	1
0008	J706427P2	PAPER	1
0009	K805145G1	ASM DIS SCR N CB 90X	1
0010	J706594P1	EARPHO	1
0011	K805465G1	CABLE ASM	1
0012	A700036P405	SCR	4
0013	J708105P1	SCREEN	1
0014	K805451P1	COVER	1
0015	J706629G1	ASM CA MT903	1
0016	K805472P1	SHIELD	1
0017	K805473P1	SHIELD	1
0018	J708122P1	SPRING	2
0020	J706076P3	WASH	6
0021	A700031P205	SCREW MACH PAN HEAD	6
MODULES:			
A020	L855503G1	JP 908	1
A021	L855500G1	JP 907	1
A022	K805300G1	C9MT04	1
A023	C850520G2	BD CPNT IA 902	1
B001	J708052P1	BATTERY	2
E001	J708084P1	AN 961	1
F001	J706998P13	FUSE 10A	1
U001	J706247P2	INT CKT 82S 123	1
WIRING AND CABLES:			
W001	A701633G2	CA	1
W002	A701632G2	CA	1
W003	A702384G2	CA	1
W004	A701634G2	CA	1
W005	B800566P29	CA	1

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
W006	B800566P33	CABLE	1
W007	L855518G1	CABLE ASM	1
W008	L855518G2	CABLE ASM	1
W009	L855518G3	CABLE ASM	1
W010	L855518G4	CABLE ASM	1
W011	L855518G5	CABLE ASM	1
W012	L855518G6	CABLE ASM	1
W013	K805474G1	CA ASM	1
W014	K805475G1	CA ASM	1
W015	L855518G7	CABLE ASM	1
W016	L855518G8	CABLE ASM	1
W017	K805463G1	CABLE ASM	1
W018	B800566P15	CABLE	1
W019	K805467G1	CABLE ASM	1
W020	J708111G1	CABLE ASM	1
XF01	J708099P1	HOLDER FUSE	1
XF02	J708099P2	HOLDER FUSE	1
	CRYSTAL UNITS:		
Y001	J707508G1	X TAL UN QTZ X0905	1
Y002	J707509G1	X TAL UN QTZ X0906	1
Y003	J707510G1	X TAL UN QTZ X09011	1
	MECHANICAL PARTS:		
0006	D900058P1	COVER	1
0007	D900057P1	COVER	1
0008	D900057P2	COVER	1
0009	D900057P3	COVER	1
0010	K805384G1	COV ASM PA9XX	1
0011	M905715G1	COVER ASM	1
0012	M905718G1	COVER ASM	1
0013	M905716G1	CABINET ASM	1
0014	K805468G1	FRONT ASM	1
0015	C850585G1	CHAS MOD DUPLEX "B"	1
0016	L855241G1	ASM HOLDER SC93	1
0017	J708054P1	HOLDER DUPLEX	1
0018	J708055P1	HOLDER DUPLEX	1
0019	K805441P1	PROTECT	1
0020	K805461G1	FRAME SIDE R SP9	1
0021	K805461G2	FRAME SIDE L SP9	1
0022	J708010P1	BUSHING	1
0023	J708013P1	BUSHING	2
0024	J708017P1	BUSHING	2
0025	K805446G1	HANDLE ASM	1
0027	K805476G1	COVER ASM	1
0028	L855153P1	INS SHEET	1
0029	A700031P404	SCREW MACH	3
0030	A700115P3	INSULATOR PLATE	1
0031	A701983P2	BUSH INS	1
0032	A700036P310	SCR	1
0033	A700036P408	SCREW T.F	27
0035	A701312P3	WASHER M2,2	1
0038	A700036P425	SCR THD FORM	1
0039	A700036P410	SCREW T.F	24
0040	A700031P406	SCR M3X6	14
0041	A700031P410	SCREW MACH PN.HD 3X10	9
0042	A700031P405	SCREW MACH PN.HD 3X5	4
0044	A700035P410	SCREW MACH FL.HD 3X10	6
0045	A700031P610	SCREW MACH PN.HD 4X10	3
0046	A701240P414	SCREW MACH SOCK HD 4X16	8
0048	A701035P1	GASKET	4
0049	J706617P1	SPACER	2
0050	A701108P1	CLAMP	2

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
	0051	B800511P2	GASKET	2
	0052	J706616P1	SPACER	1
	0053	A701289P1	RING RETAINING	8
	0057	B800557P1	CONTACT	1
	0058	J706617P2	SPACER	1
	0061	J708098P7	CLAMP	1
	0062	J708072P1	CONN COAX UHF	1
	0063	A700031P606	SCREW	4
	0064	J707099P512	SCREW	2
	0065	J708129P224	SCREW	2
	0066	J708129P221	SCREW	6
	0067	J706212P202	SCR	4
	0068	J708109P1	NUT	1
	0069	A701507P808	SCREW	3
	0070	J708024P1	BMPR	4
	0071	J708176P2	SCREW	4
	0075	J706449P1	NAME PLATE COMB	1
	0077	K805456P1	COVER BATTERY	1
	0078	J708114P1	PLATE FOAM	1
	0079	K805469P1	PLATE FOAM	1
	0080	J708178P4	SCREW	4
	0081	A701312P6	WASH	4

ITEM NUMBER	DESCRIPTION
M905690G2	NMT RADIO FINLAND

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
*	A019	M905688G2	C U SF-S	1
*	A006	L855176G1	ASM KEY BD CB 90X=SF-S	1

ITEM NUMBER	DESCRIPTION
M905690G3	NMT RADIO NORWAY

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
*	A018	M905688G1	C U DK-N	1
*	A003	L855176G2	ASM KEY BD CB 90X=DK-N	1

ITEM NUMBER	DESCRIPTION
M905690G4	NMT RADIO SWEDEN

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
*	A019	M905688G2	C U SF-S	1
*	A006	L855176G1	ASM KEY BD CB 90X=SF-S	1

ITEM NUMBER L855497G1
--------------------------

DESCRIPTION AC 901
-----------------------

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION
C001	A701534P4	CAP TA 1MF 35V
C002	J706339P7	CAP AL 15MF 16V
C003	A700234P5	CAP POLY 4700PF 50V
C004	J706339P7	CAP AL 15MF 16V
D001	A700028P1	DIO 1N4148
D002	A700028P1	DIO 1N4148
D003	J706270P1	DIO ZENR 5,6V
D004	J706135P1	DIO OPTO ELEC 5082-4658
D005	J706136P4	DIO OPTO ELEC GREEN
D006	J706136P3	DIO OPTO ELEC YELLOW
D007	A700025P7	DIO SI 5,6V
J001	J708068P14	CONN 14 PIN
J002	J708068P14	CONN 14 PIN
J003	J708068P14	CONN 14 PIN
Q001	J707674P1	TSTR PNP BC 558
Q002	J707674P1	TSTR PNP BC 558
Q003	J706133P1	TSTR MPS A13
R001	A700019P73	RES DEPOS 1MOHM
R002	A700019P70	RES DEPOS 560KOHM
R003	A700019P53	RES DEPOS 22K 0,25W
R004	A700019P54	RES DEPOS 27K 0.25W
R005	A700019P27	RES DEPOS 150 OHM 0,25W
R006	A700019P70	RES DEPOS 560KOHM
R007	A700019P63	RES DEPOS 150K OHM 0,25W
R008	A700019P49	RES DEPOS 10K 0.25W
R009	A700019P59	RES DEPOS 68K 0.25W
R010	A700019P46	RES DEPOS 5.6K 0.25W
R011	A701250P321	RES M FILM 16,2K OHM 0,25
R012	A701250P319	RES MET FILM 15,4K OHM
R013	A700019P51	RES DEPOS 15K 0.25W
R014	A700019P75	RES DEPOS 1,5M
R015	A700019P61	RES DEPOS 100K 0.25W
R016	A700019P49	RES DEPOS 10K 0.25W
R017	A700019P49	RES DEPOS 10K 0.25W
R018	A700019P33	RES DEPOS 4700HM 0,25W
R019	A700019P30	RES DEPOS 270 OHM 0,25W
R020	A700019P49	RES DEPOS 10K 0.25W
S001	J708060P1	SW SL
U001	J706018P1	INT CKT MC3302
0003	J708074P1	STUD GUIDE

ITEM NUMBER  
M905711G1

DESCRIPTION  
CPNT BD PW CU 901

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION
C001	J706005P5	CAP ELECT 220MF 16V
C002	J706005P5	CAP ELECT 220MF 16V
C003	J706354P1	CAP ELECT 47MF 16V
C004	A700004P7	CAP PYES 680 NF 63V
C005	A700004P4	CAP POLY 0.22MF 63V
C006	A700234P11	CAP POLY 0,047MF 50V
C007	A700234P11	CAP POLY 0,047MF 50V
C008	J706005P5	CAP ELECT 220MF 16V
C009	A701534P7	CAP TA 10MF 16V
C010	A701534P7	CAP TA 10MF 16V
C011	A701534P7	CAP TA 10MF 16V
C012	A700234P1	CAP POLY 1000PF 50V
C013	A700234P11	CAP POLY 0,047MF 50V
C014	A701534P7	CAP TA 10MF 16V
C015	J706005P1	CAP ELECTRO 10MF 63V
C016	A701534P7	CAP TA 10MF 16V
D001	J706026P1	DIO SI 1N5401
D002	J706026P1	DIO SI 1N5401
D003	A700028P1	DIO 1N4148
D004	J706282P1	DIODE SILICON
D005	J706282P1	DIODE SILICON
D006	J706282P1	DIODE SILICON
D007	J706282P1	DIODE SILICON
D008	A700025P6	DIO ZENER 5,1V
D010	A700025P7	DIO SI 5,6V
D011	A700028P1	DIO 1N4148
D012	A700028P1	DIO 1N4148
D013	A700028P1	DIO 1N4148
F001	J706998P9	FUSE 4 A
K001	J706741P1	RELAY
L001	J708131G1	COIL ASM
P001	J708100P1	TERM TAB SPADE
P002	J708100P1	TERM TAB SPADE
P003	J708100P1	TERM TAB SPADE
P004	J708100P1	TERM TAB SPADE
P005	J708100P1	TERM TAB SPADE
P006	J708100P1	TERM TAB SPADE
P007	J708068P3	CONN 3 PIN
P008	J708068P6	CONN PIN SNAP LOCK
Q001	J707594P1	TRST BD 437
Q002	J707594P1	TRST BD 437
Q003	J707435P1	TSTR
Q004	A700017P2	TSTR BC 548
Q005	A700017P2	TSTR BC 548
Q006	A700017P2	TSTR BC 548
Q007	A700020P1	TSTR BC 558
Q008	J708070P1	TSTR PNP D45H8
Q009	A700017P2	TSTR BC 548
Q010	A700017P2	TSTR BC 548
Q011	A700020P1	TSTR BC 558
Q012	A700020P1	TSTR BC 558
Q013	A700017P2	TSTR BC 548
Q014	A700017P2	TSTR BC 548
R001	A700019P22	RES DEPOS 56 OHM 0,25W

COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION
R002	A700019P5 RES DEPOS 2,2K 0,25W
R003	A700019P40 RES DEPOS 1,8K 0,25W
R004	A700019P37 RES DEPOS 1K 0,25W
R005	J706251P30 RES DEPOS 270 OHM 1W
R006	A700019P41 RES DEPOS 2,2K 0,25W
R007	A700019P57 RES DEPOS 47K 0.25W
R008	A700019P41 RES DEPOS 2,2K 0,25W
R009	A700019P45 RES DEPOS 4.7K 0.25W
R010	A700050P9 RES WW 0,47 OHM 2W
R011	A700019P45 RES DEPOS 4.7K 0.25W
R012	A700019P41 RES DEPOS 2,2K 0,25W
R013	J707282P2 RES NTC 47K OHM 0,6W
R014	A700019P57 RES DEPOS 47K 0.25W
R015	A700019P45 RES DEPOS 4.7K 0.25W
R016	A700019P37 RES DEPOS 1K 0,25W
R017	A700019P45 RES DEPOS 4.7K 0.25W
R018	J706251P30 RES DEPOS 270 OHM 1W
R019	A700019P49 RES DEPOS 10K 0.25W
R020	A700019P49 RES DEPOS 10K 0.25W
R021	A700019P53 RES DEPOS 22K 0,25W
R022	J706008P8 RES VAR 4,7K OHM 0,1W
R023	A700019P49 RES DEPOS 10K 0.25W
R024	A700019P49 RES DEPOS 10K 0.25W
R025	A700019P61 RES DEPOS 100K 0.25W
R026	A700019P49 RES DEPOS 10K 0.25W
R027	A700019P61 RES DEPOS 100K 0.25W
R028	A700019P49 RES DEPOS 10K 0.25W
R029	A700019P49 RES DEPOS 10K 0.25W
R030	A700019P53 RES DEPOS 22K 0,25W
R031	J706008P8 RES VAR 4,7K OHM 0,1W
R032	A701250P293 RES MET 9090 OHM 0,25 W
R033	A700019P61 RES DEPOS 100K 0.25W
T001	K805481G1 XFRM ASM
0004	J708025P1 FZ HOLDER

ITEM NUMBER	DESCRIPTION
L855500G1	JP 907

---

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION
J001	J708180G1	CONN 21 PIN
0002	C850591G1	CONNECTOR
J002	J708068P14	CONN 14 PIN
0009	A700031P405	SCREW MACH PN.HD 3X5



ITEM NUMBER L855503G1
--------------------------

DESCRIPTION JP 908
-----------------------

COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	
C001	A700235P17	CAP CER 22PF 50V
C002	A700235P17	CAP CER 22PF 50V
C003	A700235P17	CAP CER 22PF 50V
C004	A700235P17	CAP CER 22PF 50V
J001	J706197P1	JACK MODULAR
J002	J708068P104	CONN
J003	J708068P103	CONN
R001	A700019P21	RES DEPOS 47 OHM 0,25W
R002	A700019P21	RES DEPOS 47 OHM 0,25W
R003	A700019P27	RES DEPOS 150 OHM 0,25W
R004	A700019P21	RES DEPOS 47 OHM 0,25W
R005	A700019P21	RES DEPOS 47 OHM 0,25W
0008	A700137P2	SPACER

ITEM NUMBER K805300G1
--------------------------

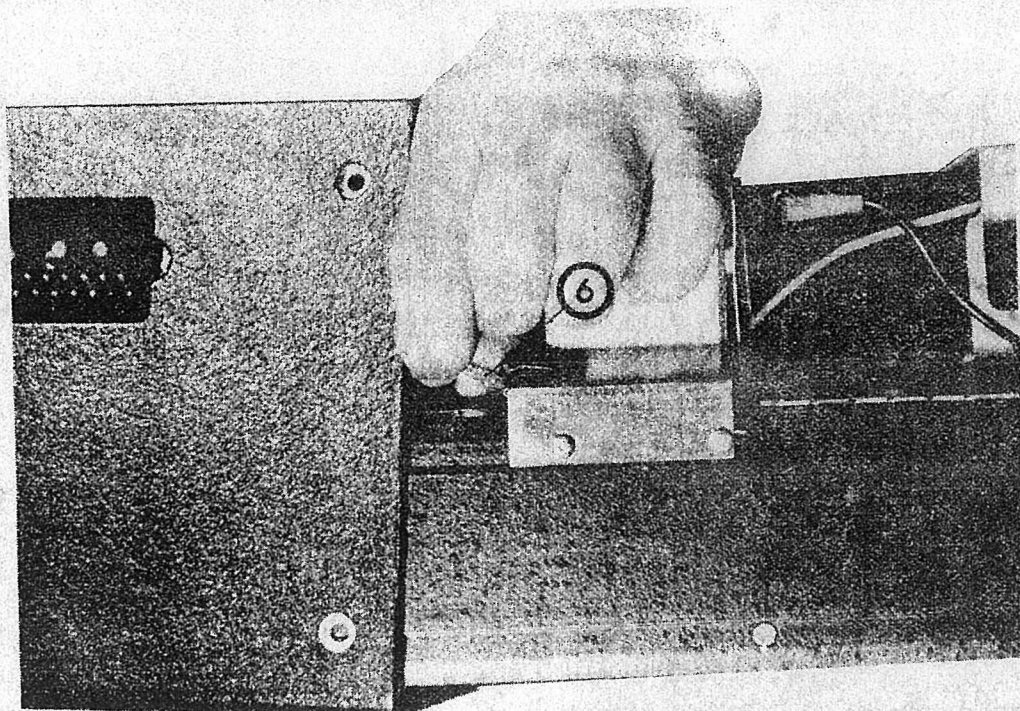
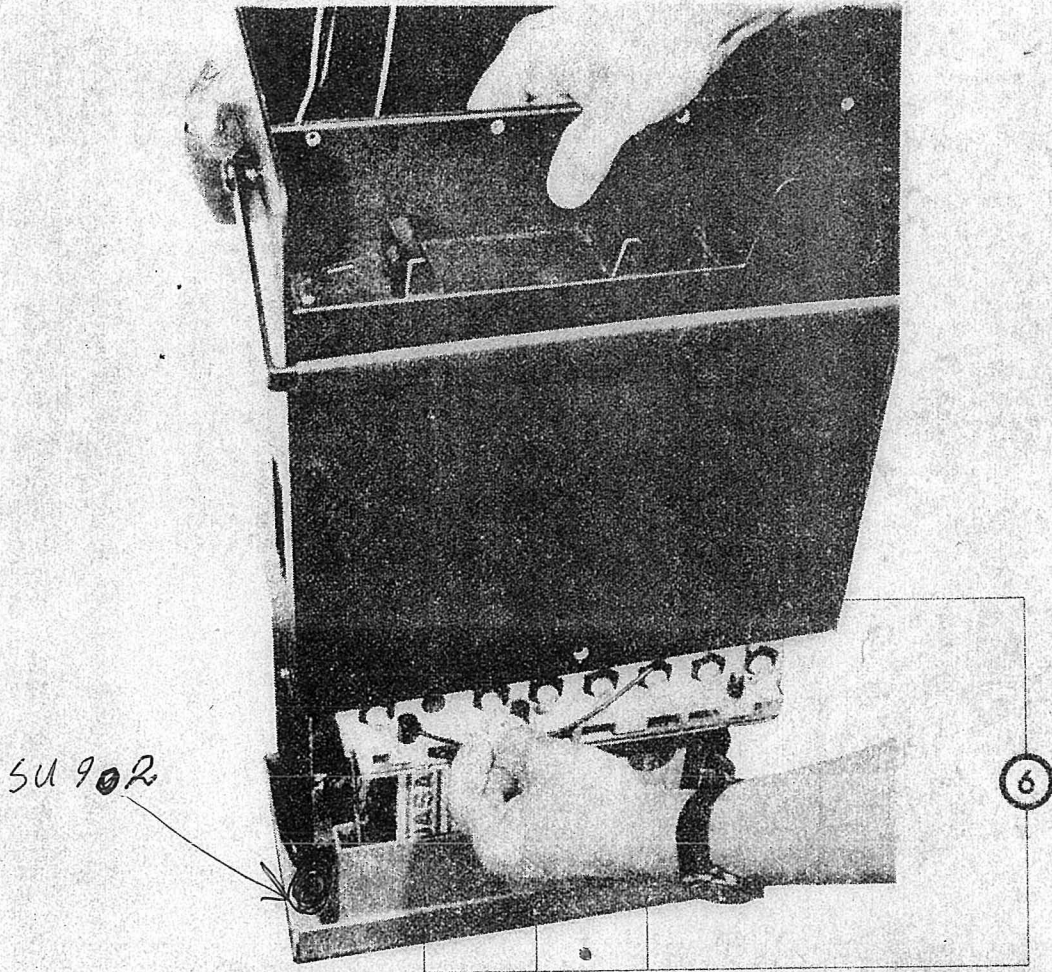
DESCRIPTION C9MT04
-----------------------

	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	M905392G1	AA 907	1
B001	J707246G1	LS 905	1
	A700041P28	CONN HSG	1
	A701703P1	CTK RCVR	1
	J707245G1	WIRE ASM	2
	J707248P1	WIRE	1
	J707787P1	CONN 4809 T	1
W001	J706755P1	CA ASM MICROPHONE	1
0002	D900169P1	HNDSET TOP	1
0003	D900170P1	HNDSET BOT	1
0004	B800609P1	PB	1
0005	A701476P1	SPT BD	1
0006	J706212P203	SCR	3
0007	A701847P305	SCR THR FGRM	2
0008	A701485P1	WASH RUB	1
0009	J706212P202	SCR	2

ITEM NUMBER	DESCRIPTION
M905392G1	AA 907

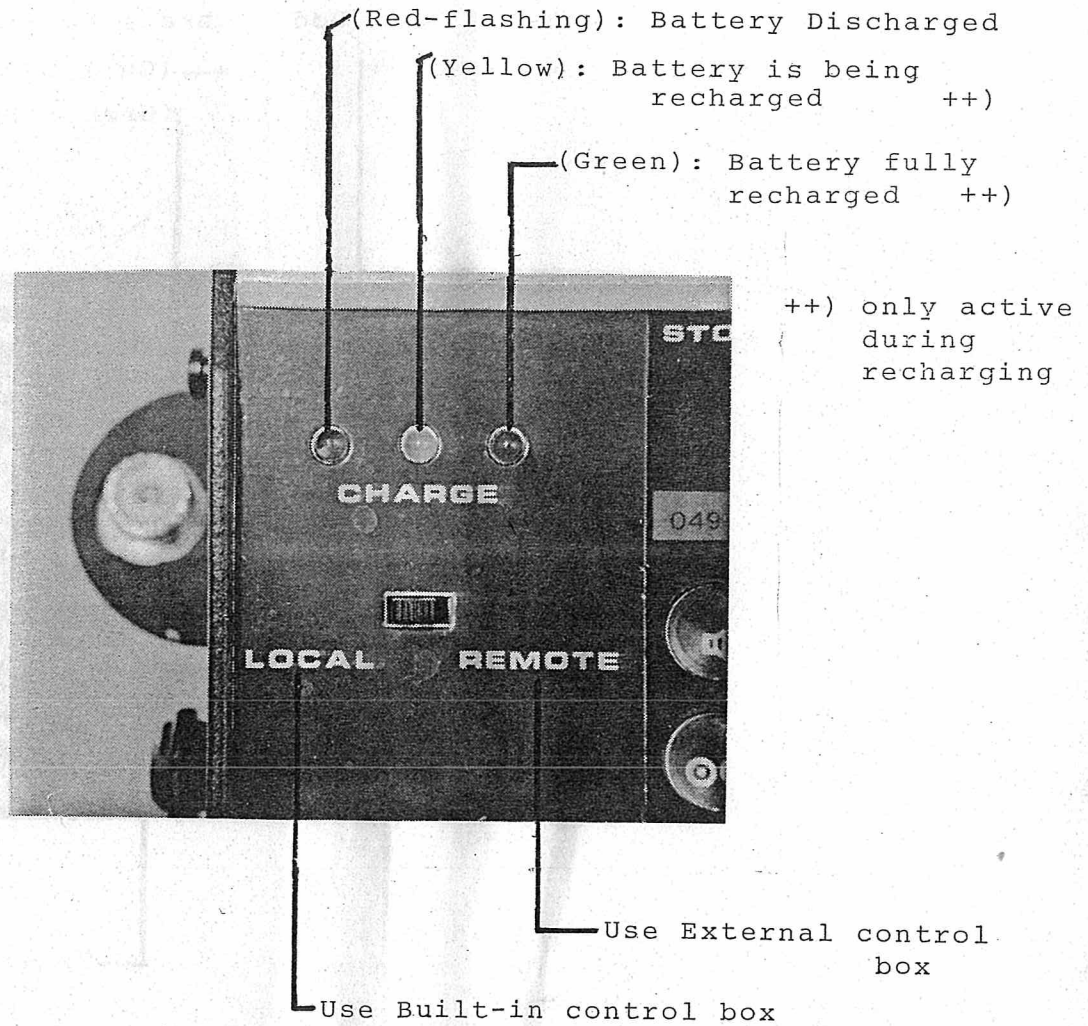
	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION
A001	L855296G1	CPNT BD PW
	A700233P5	CAP CER 470PF 50V
B001	J706041P1	MIKE EM60
C001	A700005P11	CAP POLY 0,047MF 50V
C002	A700235P17	CAP CER 22PF 50V
C003	A700234P1	CAP POLY 1000PF 50V
C004	A700005P9	CAP PYES 22NF 50V
C005	A700233P1	CAP CER 100PF 50V
C006	A700004P5	CAP PYES 0,33MF 63V
C007	A700005P10	CAP PYES 33 NF 63V
J001	J706197P1	JACK MODULAR
J002	A700072P28	CONN MOLEX 2
L001	J707174P1	COIL 4,7MH
Q001	J706133P1	TSTR MPS A13
R001	A700019P60	RES DEPOS 82K OHM 0,25W
R002	A700019P66	RES DEPOS 270K OHM 0,25W
R003	A700019P47	RES DEPOS 6.8K 0.25W
S001	K805302G1	SW ADJ
0001	M905392P1	AA 907
0007	J706424P3	WASH

- 6. Remove the screws in the radio cabinet's lower edge and lift up the cabinet in the handle. Release the antenna cable from the clip and the connector on BF964. Remove the cover completely.



# STORNOMATIC900U

BATTERY INDICATORS



RECHARGING METHOD	TIME +)	
	"ON"	"OFF"
VIA LIGHTER PLUG (3A)	14 h	8 h
VIA POWER SUPPLY	8 h	8 h
VIA PERMANENT MOBILE INSTALLATION	8 h	8 h

+ ) Battery fully discharged

NOTE! It is advisable to remove the fuses in the bottom of the radio, if the radio is out of use for longer periods (more than 14 days). The removal of the fuses does not affect the memory for abbreviated disilling