

STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME II

APRIL 1990

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**STORNOPHONE 6000
MAINTENANCE MANUAL
VOLUME II**

CHARGERS CU600X

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MICROPHONE SUPPORTS HS600X

2

JUNCTION BOXES JB600X

3

LOUDSPEAKERS LS600X

4

MICROPHONES MC600X

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MOUNTING DEVICES MN60XX

6

MICROTELEPHONES MT600X

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POWER SUPPLIES PS702 & C9PS04

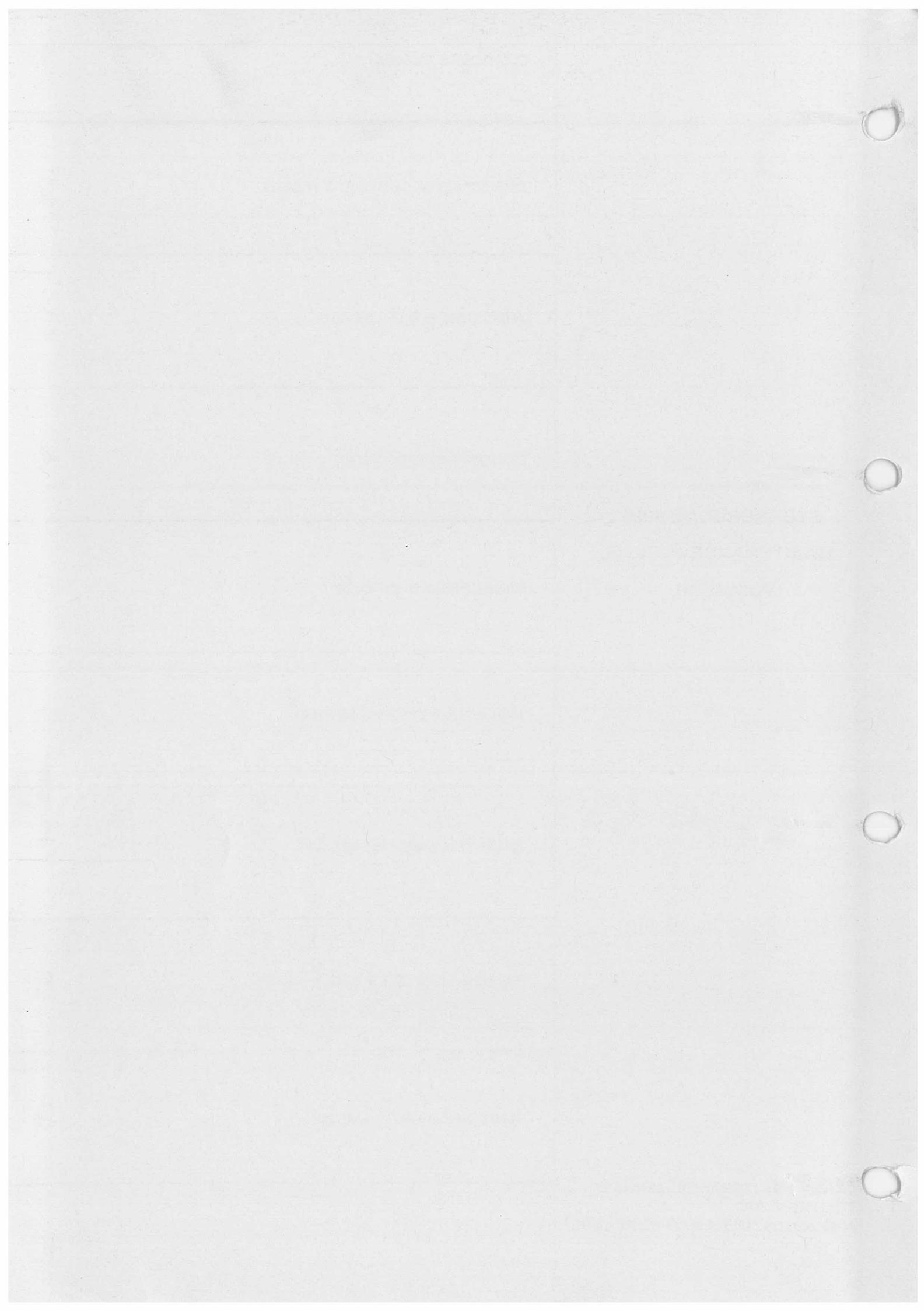
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SWITCHING UNITS SU600X

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CHAPTER 1

CHARGERS

CHARGERS CU600X

- CU6001
- CU6004

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CU6004

CHARGING UNIT

CU6004 is placed in the CK6003 and is used for charging the battery units BU6001 and BU6003.

CAUTION:

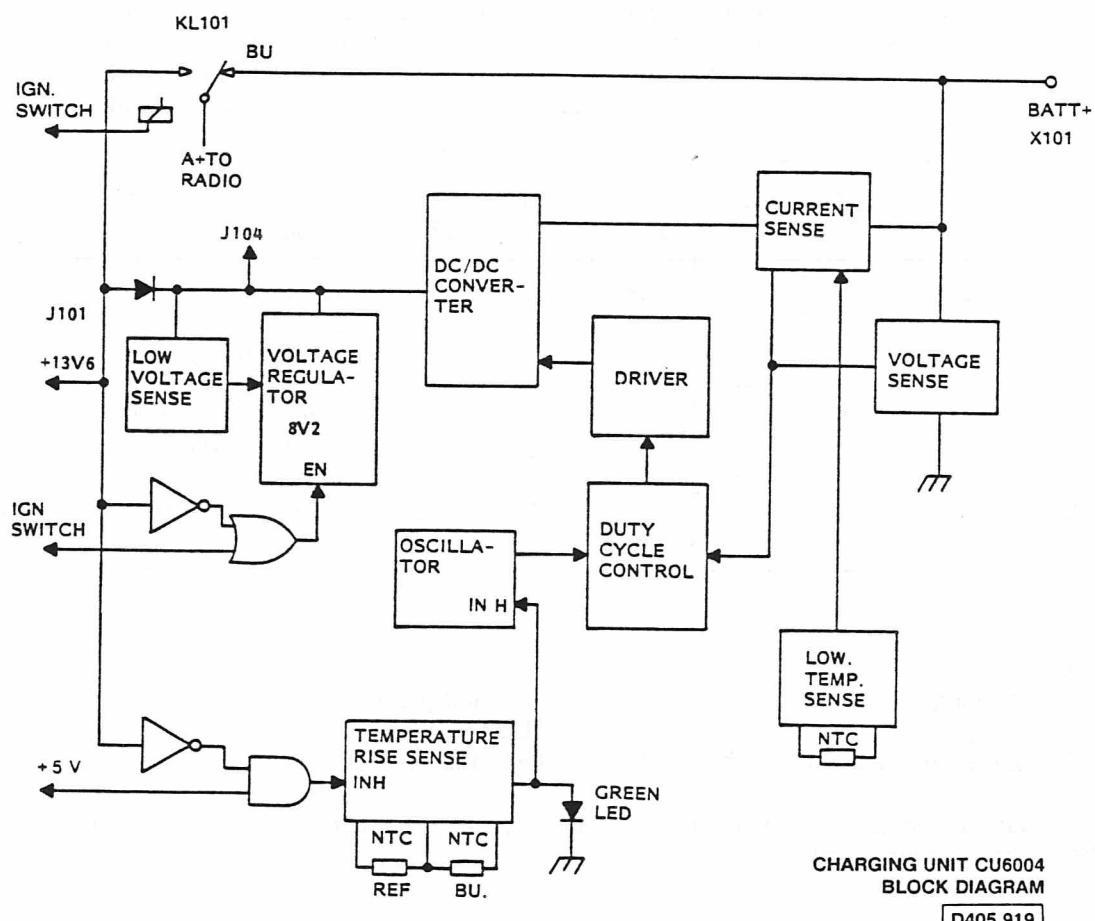
If the CU is to be removed from the CK the battery must be disconnected first.

The CU gets its input voltage either from J101 when connected to a car installation, or from J104 which can be connected to a lighter plug in a car or to an AC/DC converter, CU6005, for mains supply operation.

When the CU is connected to a car installation, charging will only take place when the ignition switch is turned on. Charging is indicated by a red LED.

Charging will take place at a constant current rate until a temperature rise is detected in the BU. At that point charging is reduced to 10%, and a green LED indicates that the battery is fully charged. The red LED is then switched off.

CIRCUIT DESCRIPTION



The regulator Q103, Q105 and D102 is a conventional analog type. It is switched off by Q102, Q104 if the ignition is off and the input voltage goes to J101. The oscillator U102a works at approx. 70 kHz and gives a triangular voltage to the comparator U102b which is controlled by U102c and d.

The square waved output from U102b goes to the driver set Q107, Q108, which controls Q109. The AC/DC converter is a flyback type and consists of Q109, D111, C110 and T101.

D110, R148, C108 and D109 is a snubber circuit, of which the current supplies the LED, D109. U102c and D108 control the output voltage like U102d controls the output current in R149.

The output current is determined by U101a, c and d.

The output on U101d goes high when the temperature is $< +10^\circ \text{C}$. This causes the duty cycle at Q109 to decrease until the current is approx. 120 mA. The temperature rise sense U101c, D103 will switch over when the temperature in the BU (R120) rises approx. 7°C above the reference temperature (R119) in the CK. The current will decrease approx. 120 mA, the green LED will be activated, and the red LED deactivated. These conditions will be kept until U101b goes on (low) or the supply voltage goes off/on.

If the input voltage is applied to J104 and the radio is on, the trickle mode is cancelled by U101b, and the current is reduced to approx. 600 mA by U101a.

L101, 102, 103 and 104 with associated capacitors are filters which damp the RF down to the input and output wires.

CHARGING SCHEME AND CONDITIONS

Max. charging current is 1.2 A. It is reduced to 10% by temperatures $< +10^\circ \text{C}$ or a difference of $> 7^\circ \text{C}$ between CK/BU. In the last case the reduction will be kept until the voltage is turned off/on or the radio is turned on, provided that the CU gets its supply voltage from J104. The current is reduced to 50% if the radio is turned on and the CU is supplied from J104.

J101/ 1	J104	J101/ 15	J101/ 3	J101/ 9	J103/ 3	J102/ 22	Conditions CU	Radio
H	L	H	H	H	L	H	Max to trickle	Red. Pw.
H	L	L	H	L	L	L	0	
H	L	H	H	L	L	H	Max to trickle	
H	L	L	H	H	L	L	0	
L	H	H	L	H	L	H	Reduced to 50%	
L	H	L	H*	L	L	L	Max to trickle	
L	H	H	H*	L	L	H	Max to trickle	
L	H	L	L	H	L	L	Reduced to 50%	
L	L	L	H	H	H	H	0	Red. Pw.

Indicator lights.

No charging: Red and green off.

Charging*: Red on, green off.

Temperature rise in BU has been attained: Green on, red off.

* If the output voltage is below approx. 3 V (fully discharged battery or short circuit) the red light will be dimmed or off.

SPECIFICATIONS

Input voltage

J101: Min.: 11.6 V

J101: Max.: 15.6 V

J104: Min.: 10.8 V

J104: Max.: 31.2 V

Output voltage

Min.: 0 V

Max. at 25° C: I load 0 mA: < 18 V

Output Current

At 25° C and 10 < Vout < 14.5 V: I = 1.2 A ± 10%

When the ambient temperature is + 10 ± 5° C the current is decreased to:

120 ± 75 mA at 13.2 V output.

Efficiency

Vin 15.6 Volt on J104.

at 13.2 Volt output > 70%.

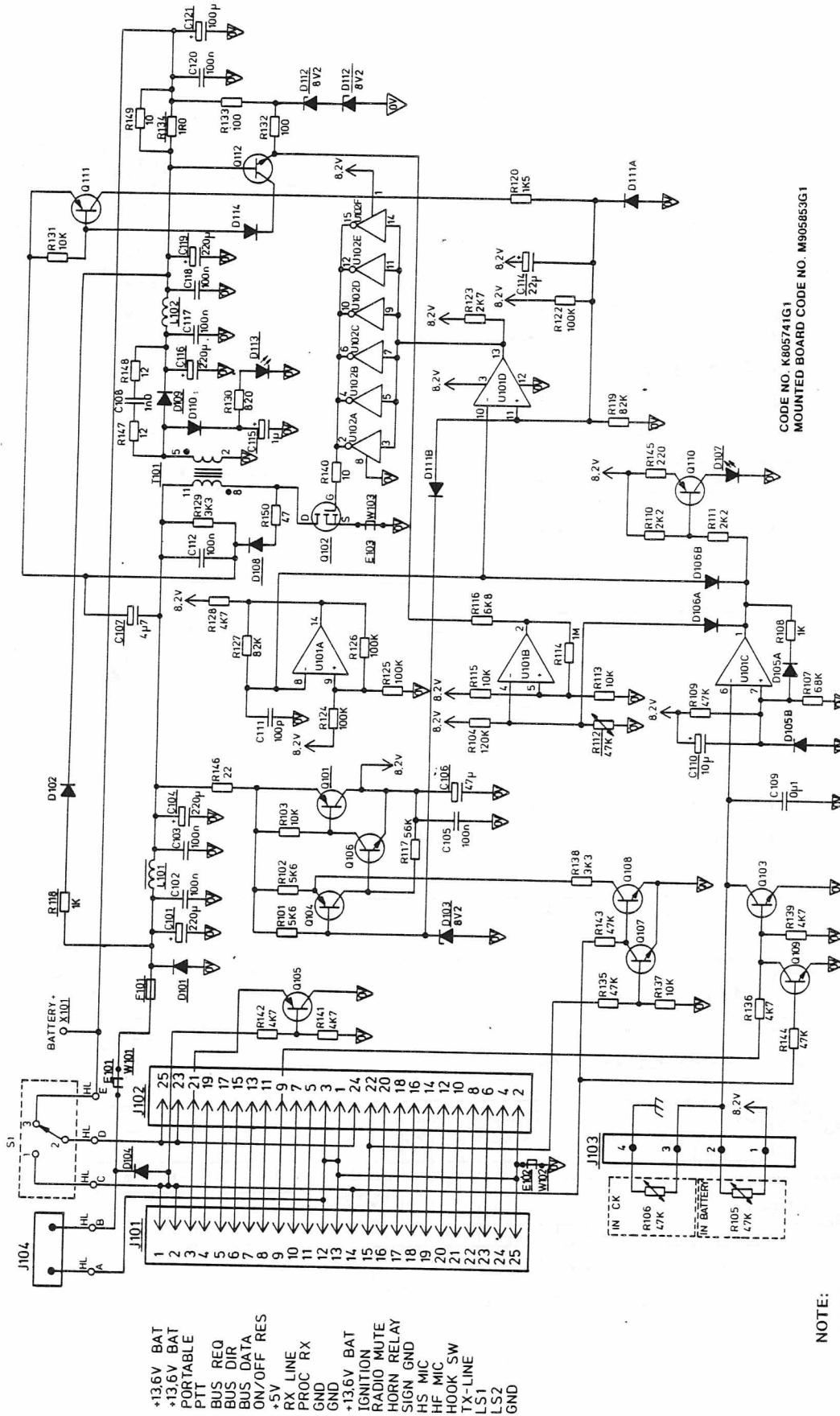
Temperature Range

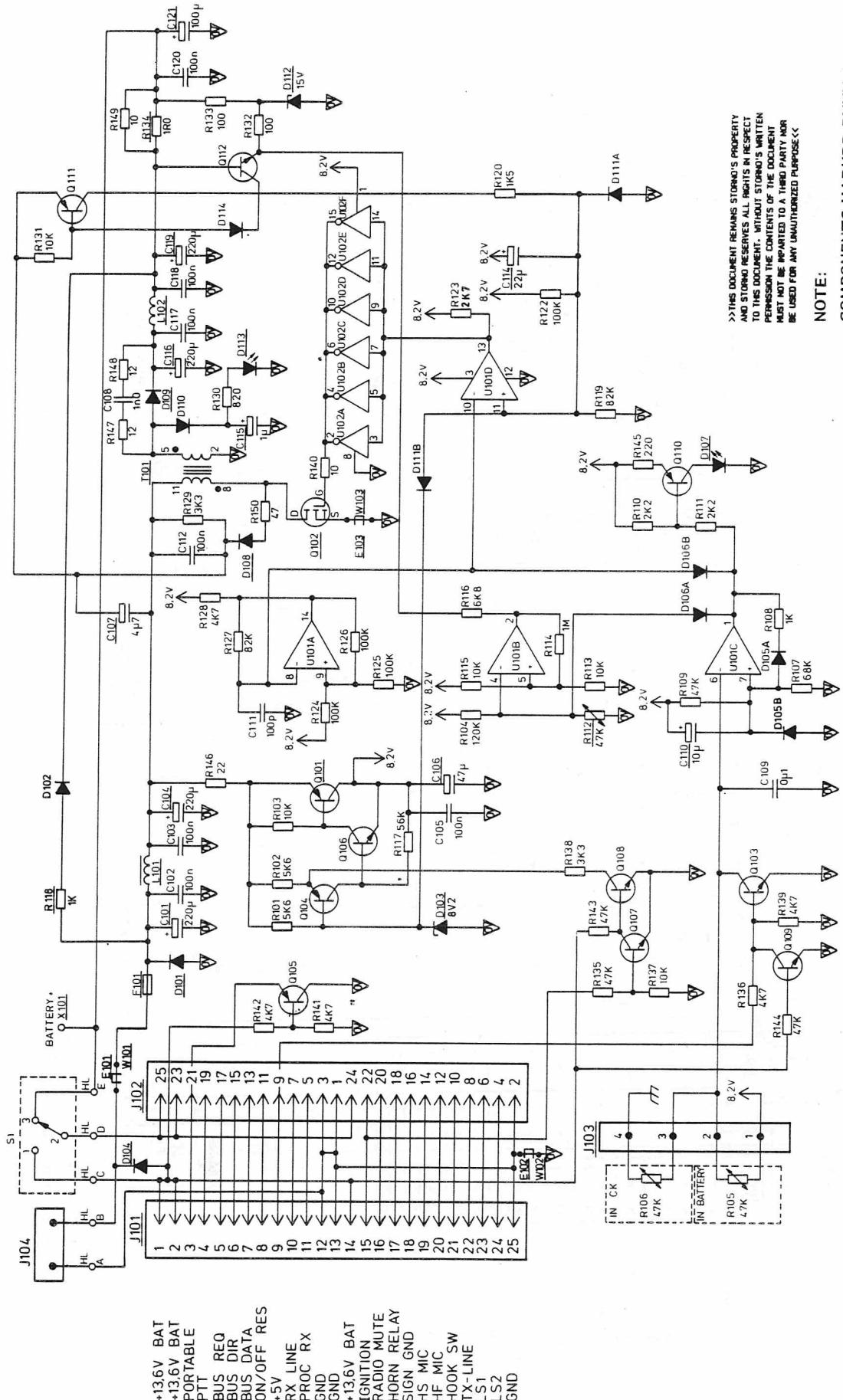
- 25 to + 55° C.

Note: The recommended temperature range for charging of BU6001 and BU6003 is + 10 to + 45° C.

Dimensions

L x W x H: 138 x 66 x 30 mm





CODE NO. K805741G1
CODE NO. M905853G1
MOUNTED BOARD

CHARGING UNIT CU6001
REV.B D40 / 712

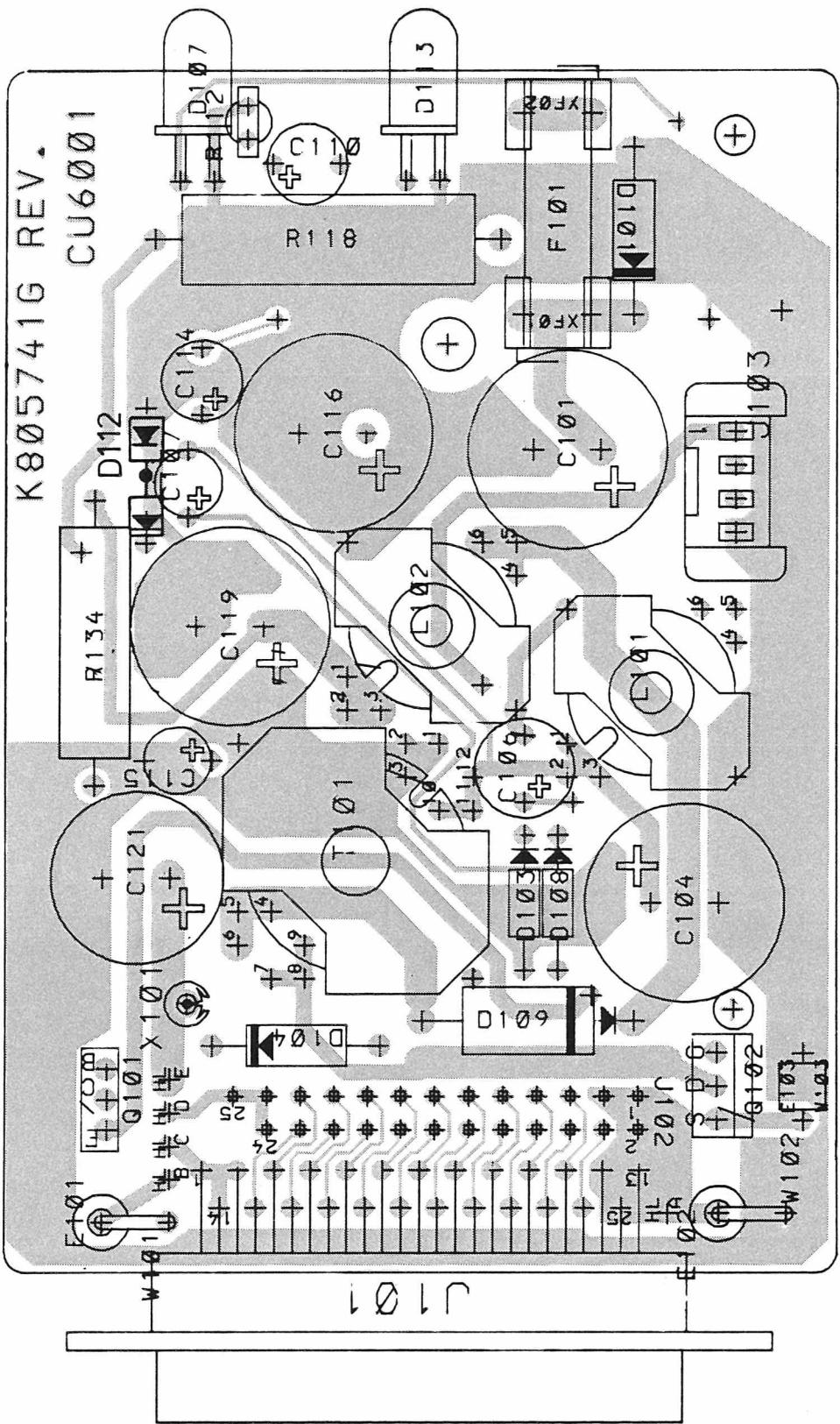
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NOTE:
COMPONENTS MARKED RXXX ARE
PLACED ON COMPONENT SIDE.

CHARGING UNIT CU6001
COMPONENT LAYOUT-COMPONENT SIDE
REV.3

CODE NO. K805741G1
MOUNTED BOARD CODE NO. M905853G1

D404.498/2



DATE: 7/17/1987

Pos	Code No	Description	Qt
A001	M905853G1	CPNT BD ASM	
J101	J708471P3	CONN MULTI REC P 25-CKT	1
J104	J708829P1	CONN POWER REC P 02-WAY	1
Q101	J706890P1	TSTR PNP SI BD 140	1
Q102	J708775P1	TSTR MFET SI BUZ 20	1
S001	J709556P1	SW TGL MIM-106D-PC	1
W001	J707210P100	WIRE 0.220 SQ BK	1
NON ELECTRONICAL PARTS			
	A700031P305	SCR PAN HD M-2.5X 5.0	2
	A700034P3	NUT HEX M-2.5X0.45	2
	J709304G1	HEAT SINK TEXTED	1
	J708766P1	INS SHEET FOR TO-220	1
	A700068P1	INS BUSH	1
	A700031P306	SCR PAN HD M-2.5X 6.0	1
	A700034P3	NUT HEX M-2.5X0.45	2
	J708766P2	INS SHEET FOR TO-126	1
	A700031P308	SCR PAN HD M-2.5X 8.0	1
A001	M905853G1	CPNT BD ASM	
C101	J706005P14	CAP ELECT 220U 40V	1
C102	J707438P26	CAP CER CL2 100N 10%	1
C103	J707438P26	CAP CER CL2 100N 10%	1
C104	J706005P14	CAP ELECT 220U 40V	1
C105	J707438P26	CAP CER CL2 100N 10%	1
C106	J707444P17	CAP TA SOL 47U 10V	1
C107	J707444P6	CAP TA SOL 4U7 35V	1
C108	J707438P5	CAP CER CL2 1N 10%	1
C109	J707438P26	CAP CER CL2 100N 10%	1
C110	J707444P7	CAP TA SOL 10U 16V	1
C111	J707436P61	CAP CER NPO 100P 5%	1
C112	J707438P26	CAP CER CL2 100N 10%	1
C114	J707444P8	CAP TA SOL 22U 16V	1
C115	J707444P4	CAP TA SOL 1U 35V	1
C116	J706005P10	CAP ELECT 220U 25V	1
C117	J707438P26	CAP CER CL2 100N 10%	1

Pos	Code No	Description	Qt
C118	J707438P26	CAP CER CL2 100N 10%	1
C119	J706005P10	CAP ELECT 220U 25V	1
C120	J707438P26	CAP CER CL2 100N 10%	1
C121	J706005P9	CAP ELECT 100U 25V	1
D101	J706100P2	DIO SI SIG 1N4004	1
D102	J707389P1	DIO SI SIG BAV 99	1
D103	A700025P9	DIO SI ZENR 8V2 5% 0.4W	1
D104	J706100P2	DIO SI SIG 1N4004	1
D105	J707389P1	DIO SI SIG BAV 99	1
D106	J707390P1	DIO SI SIG BAV 74	1
D107	J707764P2	DIO OPTO GN ESBG5501	1
D108	A700028P1	DIO SI SIG 1N4148	1
D109	J708734P1	DIO SI PWR BYV 28-100	1
D110	J707389P1	DIO SI SIG BAV 99	1
D111	J707389P1	DIO SI SIG BAV 99	1
D112	J706270P2	DIO SI ZENR 8V2 2% 0.4W	2
D113	J707764P1	DIO OPTO RD ESBR5501	1
D114	J707389P1	DIO SI SIG BAV 99	1
E101	J707961P2	CORE TOR FERR U 900	1
E102	J707961P2	CORE TOR FERR U 900	1
E103	A700103P1	FERR CORE	1
F101	J706998P7	FUSE CTG 2.0A T	1
J102	J708925P1	CONN PT PIN L-9.70MM	25
J103	J708068P4	CONN PWB MALE RECP 04-OKT	1
L101	K805622G1	COIL FILTER	1
L102	K805622G1	COIL FILTER	1
Q103	J707386P1	TSTR NPN SI BCW 32	1
Q104	J707387P1	TSTR PNP SI BCW 30	1
Q105	J707387P1	TSTR PNP SI BCW 30	1
Q106	J707386P1	TSTR NPN SI BCW 32	1
Q107	J707386P1	TSTR NPN SI BCW 32	1
Q108	J707386P1	TSTR NPN SI BCW 32	1
Q109	J707386P1	TSTR NPN SI BCW 32	1
Q110	J707387P1	TSTR PNP SI BCW 30	1
Q111	J707387P2	TSTR PNP SI BCW 70	1
Q112	J707386P2	TSTR PNP SI BCW 72	1
R101	J707385P562	RES MFLM 1/8W 5K6 5%	1

DATE: 7/17/1987

Pos	Code No	Description	Qt
R102	J707385P562	RES MFLM 1/8W 5K6	5%
R103	J707385P103	RES MFLM 1/8W 10K	5%
R104	J707385P124	RES MFLM 1/8W 120K	5%
R107	J707385P683	RES MFLM 1/8W 68K	5%
R108	J707385P102	RES MFLM 1/8W 1K0	5%
R109	J707385P473	RES MFLM 1/8W 47K	5%
R110	J707385P222	RES MFLM 1/8W 2K2	5%
R111	J707385P222	RES MFLM 1/8W 2K2	5%
R112	J707406P15	RES THERM NTC	47K
R113	J707385P103	RES MFLM 1/8W 10K	5%
R114	J707385P105	RES MFLM 1/8W 1M0	10%
R115	J707385P103	RES MFLM 1/8W 10K	5%
R116	J707385P682	RES MFLM 1/8W 6K8	5%
R117	J707385P663	RES MFLM 1/8W 56K	5%
R118	J706251P37	RES DEPC 1/1W 1K0	5%
R119	J707385P823	RES MFLM 1/8W 82K	5%
R120	J707385P152	RES MFLM 1/8W 1K5	5%
R122	J707385P104	RES MFLM 1/8W 100K	5%
R123	J707385P272	RES MFLM 1/8W 2K7	5%
R124	J707385P104	RES MFLM 1/8W 100K	5%
R125	J707385P104	RES MFLM 1/8W 100K	5%
R126	J707385P104	RES MFLM 1/8W 100K	5%
R127	J707385P823	RES MFLM 1/8W 82K	5%
R128	J707385P472	RES MFLM 1/8W 4K7	5%
R129	J707385P332	RES MFLM 1/8W 3K3	5%
R130	J707385P821	RES MFLM 1/8W 820R	5%
R131	J707385P103	RES MFLM 1/8W 10K	5%
R132	J707385P101	RES MFLM 1/8W 100R	5%
R133	J707385P101	RES MFLM 1/8W 100R	5%
R134	J706056P1	RES DEPC 1/2W 1R0	5%
R135	J707385P473	RES MFLM 1/8W 47K	5%
R136	J707385P472	RES MFLM 1/8W 4K7	5%
R137	J707385P103	RES MFLM 1/8W 10K	5%
R138	J707385P332	RES MFLM 1/8W 3K3	5%
R139	J707385P472	RES MFLM 1/8W 4K7	5%
R140	J707385P100	RES MFLM 1/8W 10R	5%
R141	J707385P472	RES MFLM 1/8W 4K7	5%

Pos	Code No	Description	Qt
R142	J707385P472	RES MFLM 1/8W 4K7	5%
R143	J707385P473	RES MFLM 1/8W 47K	5%
R144	J707385P473	RES MFLM 1/8W 47K	5%
R145	J707385P221	RES MFLM 1/8W 220R	5%
R146	J707385P220	RES MFLM 1/8W 22R	5%
R147	J707385P120	RES MFLM 1/8W 12R	5%
R148	J707385P120	RES MFLM 1/8W 12R	5%
R149	J707385P100	RES MFLM 1/8W 10R	5%
R150	J707385P470	RES MFLM 1/8W 47R	5%
T101	K80562361	TRANSFORMER	1
U101	J708503P1	IC LIN CMPAR	1
U102	J708356P1	IC DIG BUFR	1
W101	J707195P26	WIRE 1.000 DIA	1
W102	J707195P26	WIRE 1.000 DIA	1
W103	J707195P26	WIRE 1.000 DIA	1
XF01	J708025P1	FUSE HOLDER	1
XF02	J708025P1	FUSE HOLDER	1
X101	J706848P1	TERM BRL D 3.18	1
M905854P1R3	BD PW		1

Parts List

CHARGING UNIT CU6001 : K805741G1

X404. 633

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Pos.	Code No.	Description	Qty.	Pos.	Code No.	Description	Qty.
A001	M905853G1	CPNT BD ASM	1	C118	J707438P26	CAP, CER, CL2	100N , 10%
J101	J708471P3	CONN, MULTI RECIP, 25-CKT	1	C119	J706005P10	CAP, ELECT	220U , 25V
J104	J708829P1	CONN, POWER RECIP, 02-WAY	1	C120	J707438P26	CAP, CER, CL2	100N , 10%
Q101	J706890P1	TSTR, PNP, SI BD 140	1	C121	J706005P9	CAP, ELECT	100U , 25V
Q102	J708775P1	TSTR, MFET, SI BUZ 20	1	D101	J706100P2	DIO, SI, SIG	1N4004
S001	J709556P1	SW, TGL MTM-106D-PC	1	D102	J707389P1	DIO, SI, SIG	BAV 99
W001	J707210P100	WIRE, O.220 SQ BK	1	D103	A700025P9	DIO, SI, ZENR	8V2, 5%, 0.4W
NON ELECTRICAL PARTS				D104	J706100P2	DIO, SI, SIG	1N4004
		SCR, PAN HD M-2.5X 5.0	2	D105	J707389P1	DIO, SI, SIG	BAV 99
		NUT, HEX M-2.5X0.45	2	D106	J707390P1	DIO, SI, SIG	BAV 74
		HEAT SINK TEXTED	1	D107	J707764P2	DIO, OPTO	GN, ESBG5501
		INS SHEET FOR TO-220	1	D108	A700028P1	DIO, SI, SIG	1N4148
		INS BUSH SCR, PAN HD	1	D109	J708734P1	DIO, SI, PWR	BYV 28-100
		NUT, HEX M-2.5X0.45	1	D110	J707389P1	DIO, SI, SIG	BAV 99
		INS SHEET FOR TO-126	1	D111	J707389P1	DIO, SI, SIG	BAV 99
		SCR, PAN HD M-2.5X 8.0	1	D112	J706270P6	DIO, SI, ZENR	15V, 2%, 0.4W
			1	D113	J707764P1	DIO, OPTO	RD, ESBR5501
			1	D114	J707389P1	DIO, SI, SIG	BAV 99
			1	E101	J707961P2	CORE, TOR	FERR, U 900
			1	E102	J707961P2	CORE, TOR	FERR, U 900
			1	E103	A700103P1	FERR CORE	1
			1	F101	J706998P7	FUSE, CTG	2.0A T
			1	J102	J708925P1	CONN PT, PIN	L-9.70MM, PIN 25
			1	J103	J708068P4	CONN, PWB, MALE RECP, 04-CKT	1
			1	L101	K805622G1	COIL FILTER	1
			1	L102	K805622G1	COIL FILTER	1
			1	Q103	J707386P1	TSTR, NPN, SI	BCW 32
			1	Q104	J707387P1	TSTR, PNP, SI	BCW 30
			1	Q105	J707387P1	TSTR, PNP, SI	BCW 30
			1	Q106	J707386P1	TSTR, NPN, SI	BCW 32
			1	Q107	J707386P1	TSTR, NPN, SI	BCW 32
			1	Q108	J707386P1	TSTR, NPN, SI	BCW 32
			1	Q109	J707386P1	TSTR, NPN, SI	BCW 32
			1	Q110	J707387P1	TSTR, PNP, SI	BCW 30
			1	Q111	J707387P2	TSTR, PNP, SI	BCW 70
			1	Q112	J707386P2	TSTR, NPN, SI	BCW 72

Parts List

CHARGING UNIT CU6001 : K805741G1

X404.633 Page No. 2/2

Pos.	Code No.	Description	Qt.	Pos.	Code No.	Description	Qt.
R101	J707385P562	RES, MFLM, 1/8W 5K6 , 5%	1	R140	J707385P100	RES, MFLM, 1/8W 10R , 5%	1
R102	J707385P562	RES, MFLM, 1/8W 5K6 , 5%	1	R141	J707385P472	RES, MFLM, 1/8W 4K7 , 5%	1
R103	J707385P103	RES, MFLM, 1/8W 10K , 5%	1	R142	J707385P472	RES, MFLM, 1/8W 4K7 , 5%	1
R104	J707385P124	RES, MFLM, 1/8W 120K , 5%	1	R143	J707385P473	RES, MFLM, 1/8W 47K , 5%	1
R107	J707385P683	RES, MFLM, 1/8W 68K , 5%	1	R144	J707385P473	RES, MFLM, 1/8W 47K , 5%	1
R108	J707385P102	RES, MFLM, 1/8W 1KO , 5%	1	R145	J707385P221	RES, MFLM, 1/8W 220R , 5%	1
R109	J707385P473	RES, MFLM, 1/8W 47K , 5%	1	R146	J707385P220	RES, MFLM, 1/8W 22R , 5%	1
R110	J707385P222	RES, MFLM, 1/8W 2K2 , 5%	1	R147	J707385P120	RES, MFLM, 1/8W 12R , 5%	1
R111	J707385P222	RES, MFLM, 1/8W 2K2 , 5%	1	R148	J707385P120	RES, MFLM, 1/8W 12R , 5%	1
R112	J707406P15	RES, THERM, NTC 47K , 5%	1	R149	J707385P100	RES, MFLM, 1/8W 10R , 5%	1
R113	J707385P103	RES, MFLM, 1/8W 10K , 5%	1	R150	J707385P470	RES, MFLM, 1/8W 47R , 5%	1
R114	J707385P105	RES, MFLM, 1/8W 1MO , 10%	1	T101	K805623G1	TRANSFORMER	1
R115	J707385P103	RES, MFLM, 1/8W 10K , 5%	1	U101	J708503P1	IC, LIN, CMPAR	LM 239
R116	J707385P682	RES, MFLM, 1/8W 6K8 , 5%	1	U102	J708356P1	IC, DIG, BUFR	4049
R117	J707385P563	RES, MFLM, 1/8W 56K , 5%	1	W101	J707195P26	WIRE	1.000 DIA
R118	J706251P37	RES, DEPC, 1/1W 1KO , 5%	1	W102	J707195P26	WIRE	1.000 DIA
R119	J707385P823	RES, MFLM, 1/8W 82K , 5%	1	W103	J707195P26	WIRE	1.000 DIA
R120	J707385P152	RES, MFLM, 1/8W 1K5 , 5%	1	XF01	J708025P1	FUSE HOLDER	5.0X20.0MM
R122	J707385P104	RES, MFLM, 1/8W 100K , 5%	1	XF02	J708025P1	FUSE HOLDER	5.0X20.0MM
R123	J707385P682	RES, MFLM, 1/8W 6K8 , 5%	1	X101	J706848P1	TERM, BRL	D 3.18
R124	J707385P104	RES, MFLM, 1/8W 100K , 5%	1	0002	M905854P1R3	BD PW	
R125	J707385P104	RES, MFLM, 1/8W 100K , 5%	1				
R126	J707385P104	RES, MFLM, 1/8W 100K , 5%	1				
R127	J707385P823	RES, MFLM, 1/8W 82K , 5%	1				
R128	J707385P472	RES, MFLM, 1/8W 4K7 , 5%	1				
R129	J707385P332	RES, MFLM, 1/8W 3K3 , 5%	1				
R130	J707385P821	RES, MFLM, 1/8W 820R , 5%	1				
R131	J707385P103	RES, MFLM, 1/8W 10K , 5%	1				
R132	J707385P101	RES, MFLM, 1/8W 100R , 5%	1				
R133	J707385P101	RES, MFLM, 1/8W 100R , 5%	1				
R134	J706056P1	RES, DEPC, 1/2W 1RO , 5%	1				
R135	J707385P473	RES, MFLM, 1/8W 47K , 5%	1				
R136	J707385P472	RES, MFLM, 1/8W 4K7 , 5%	1				
R137	J707385P103	RES, MFLM, 1/8W 10K , 5%	1				
R138	J707385P332	RES, MFLM, 1/8W 3K3 , 5%	1				
R139	J707385P472	RES, MFLM, 1/8W 4K7 , 5%	1				

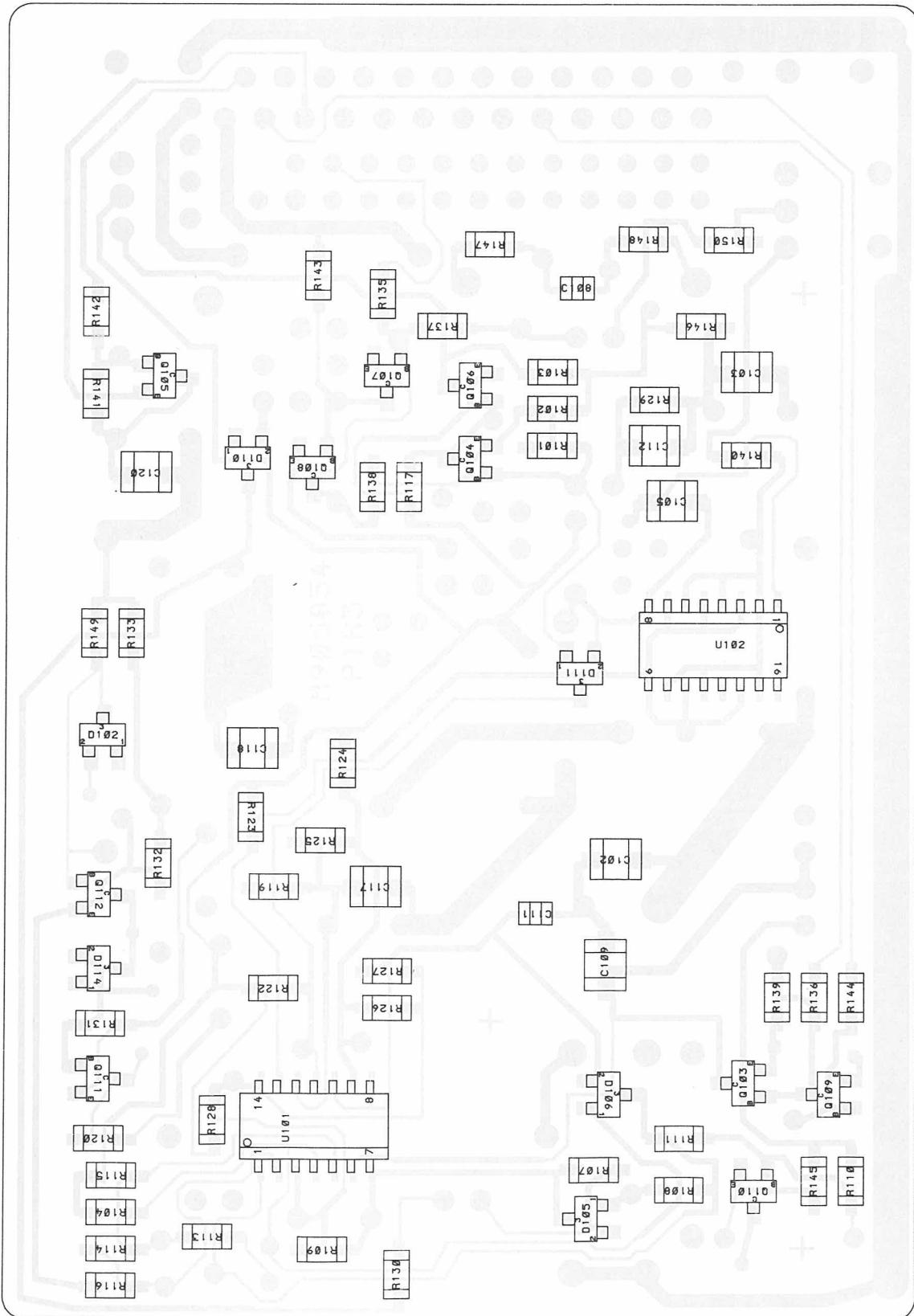
CHARGING UNIT CU6001
COMPONENT LAYOUT CHIP SIDE

D404.499

REV.3

CODE NO. K805741G1

CODE NO. M905853G1
MOUNTED BOARD



PARTS LIST FOR CHARGING UNIT CU6004 : K805909G1 BD REV. 3/C

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *		Q114	J707386P1	TSTR NPN SI BCW 32	1
				Q115	J707387P1	TSTR PNP SI BCW 30	1
A001	M906315G1	COMPONENT BD PW	1	R101	J707385P473	RES MFLM 1/8W 47K 5%	1
J101	J708471P3	CONN MULTI PLUG 25-CKT	1	R102	J707385P472	RES MFLM 1/8W 4K7 5%	1
J104	J710179P1	CONN PWR RECP 02-CKT	1	R103	J707385P225	RES MFLM 1/8W 2M2 10%	1
R168	J706958P4	RES WW 5W 1R0 10%	1	R104	J707385P473	RES MFLM 1/8W 47K 5%	1
W001	J707210P100	WIRE 0.220 SQ BK		R105	J707385P103	RES MFLM 1/8W 10K 5%	1
W002	J707210P2	WIRE 0.220 SQ RD		R106	J707385P473	RES MFLM 1/8W 47K 5%	1
A001	M906315G1	COMPONENT BD PW	1	R107	J707385P104	RES MFLM 1/8W 100K 5%	1
				R108	J707385P472	RES MFLM 1/8W 4K7 5%	1
				R109	J709328P366	RES MFLM 1/8W 47K5 1%	1
A001	M906315G1	COMPONENT BD PW	1	R110	J709328P403	RES MFLM 1/8W 105K 1%	1
				R111	J707385P150	RES MFLM 1/8W 15R 5%	1
C101	21R13741C17	CAP CER CL2 100N 5%	1	R112	J707385P104	RES MFLM 1/8W 100K 5%	1
C102	J706005P14	CAP ELECT 220U 40V	1	R113	J707385P104	RES MFLM 1/8W 100K 5%	1
C103	J707444P4	CAP TA SOL 1U 35V	1	R114	J707385P104	RES MFLM 1/8W 100K 5%	1
C104	J707444P7	CAP TA SOL 10U 16V	1	R115	J707385P564	RES MFLM 1/8W 560K 5%	1
C105	21R13740A63	CAP CER NPO 220P 5%	1	R116	J707385P104	RES MFLM 1/8W 100K 5%	1
C106	J707444P4	CAP TA SOL 1U 35V	1	R117	J709328P381	RES MFLM 1/8W 68K1 1%	1
C107	21R13740C33	CAP CER NPO 4N7 5%	1	R118	J709328P366	RES MFLM 1/8W 47K5 1%	1
C108	J707444P4	CAP TA SOL 1U 35V	1	R121	J707385P106	RES MFLM 1/8W 10M 10%	1
C109	21R13741M21	CAP CER CL2 1NO 10%	1	R122	J707385P102	RES MFLM 1/8W 1K0 5%	1
C110	J706005P10	CAP ELECT 220U 25V	1	R123	J709328P401	RES MFLM 1/8W 100K 1%	1
C111	21R13741C17	CAP CER CL2 100N 5%	1	R124	J709328P424	RES MFLM 1/8W 174K 1%	1
C112	21R13741M45	CAP CER CL2 10N 10%	1	R125	J707385P224	RES MFLM 1/8W 220K 5%	1
C113	21R13741M45	CAP CER CL2 10N 10%	1	R126	J707385P103	RES MFLM 1/8W 10K 5%	1
D101	J706026P1	DIO SI PWR 1N5401	1	R127	J707385P224	RES MFLM 1/8W 220K 5%	1
D102	J707459P8	DIO SI ZENR 9V1 5% 0.2W	1	R128	J707385P103	RES MFLM 1/8W 10K 5%	1
D103	J708681P1	DIO SI SIG BAW 56	1	R129	J707385P224	RES MFLM 1/8W 220K 5%	1
D105	J707390P1	DIO SI SIG BAV 74	1	R130	J707385P103	RES MFLM 1/8W 10K 5%	1
D106	J707390P1	DIO SI SIG BAV 74	1	R131	J709328P388	RES MFLM 1/8W 80K6 1%	1
D108	J706270P1	DIO SI ZENR 5V6 2% 0.4W	1	R132	J707385P561	RES MFLM 1/8W 560R 5%	1
D109	J707764P1	DIO OPTO RD ESBR5501	1	R133	J707385P105	RES MFLM 1/8W 1MO 10%	1
D110	J706282P2	DIO SI PWR 1N4934	1	R134	J707385P473	RES MFLM 1/8W 47K 5%	1
D111	J708734P1	DIO SI PWR BYV 28-100	1	R135	J709328P301	RES MFLM 1/8W 10K 1%	1
D112	J707764P2	DIO OPTO GN ESBG5501	1	R136	J707385P223	RES MFLM 1/8W 22K 5%	1
D113	J707390P1	DIO SI SIG BAV 74	1	R137	J707385P473	RES MFLM 1/8W 47K 5%	1
D114	J707459P4	DIO SI ZENR 6V8 5% 0.2W	1	R138	J707385P104	RES MFLM 1/8W 100K 5%	1
F101	J706998P8	FUSE CTG 3.15A T	1	R139	J707385P223	RES MFLM 1/8W 22K 5%	1
J102	J708925P1	CONN PT 25 PINS L-9.70MM	1	R140	J707385P333	RES MFLM 1/8W 33K 5%	1
J103	J708068P4	CONN PWB MALE RECP 04-CKT	1	R141	J707385P102	RES MFLM 1/8W 1K0 5%	1
K101	J708281P1	RELAY OPEN 12V 110R	1	R142	J707385P683	RES MFLM 1/8W 68K 5%	1
L101	J708732P3	COIL RF FIX 2-1/2T	1	R143	J707385P124	RES MFLM 1/8W 120K 5%	1
L102	J708732P3	COIL RF FIX 2-1/2T	1	R144	J707385P105	RES MFLM 1/8W 1MO 10%	1
L103	J710041P1	CORE TOR FERR	1	R145	J707385P222	RES MFLM 1/8W 2K2 5%	1
L104	J708732P3	COIL RF FIX 2-1/2T	1	R146	J707385P103	RES MFLM 1/8W 10K 5%	1
Q101	J707386P1	TSTR NPN SI BCW 32	1	R147	J707385P947	RES MFLM 1/8W 4R7 20%	1
Q102	J707386P1	TSTR NPN SI BCW 32	1	R148	J707385P821	RES MFLM 1/8W 820R 5%	1
Q103	J706530P2	TSTR PNP SI BC 636	1	R149	J710092P2	RES WW 1/1W OR22 5%	1
Q104	J707386P1	TSTR NPN SI BCW 32	1	R150	J707385P104	RES MFLM 1/8W 100K 5%	1
Q105	J707386P2	TSTR NPN SI BCW 72	1	R151	J707385P151	RES MFLM 1/8W 150R 5%	1
Q106	J707386P1	TSTR NPN SI BCW 32	1	R152	J707385P100	RES MFLM 1/8W 10R 5%	1
Q107	J707386P1	TSTR NPN SI BCW 32	1	R153	J707385P100	RES MFLM 1/8W 10R 5%	1
Q108	J707387P1	TSTR PNP SI BCW 30	1	R154	J707385P473	RES MFLM 1/8W 47K 5%	1
Q109	J707836P1	TSTR MFET SI BUZ 21	1	R155	J707385P104	RES MFLM 1/8W 100K 5%	1
Q110	J707387P1	TSTR PNP SI BCW 30	1	R156	J707385P472	RES MFLM 1/8W 4K7 5%	1
Q111	J707386P1	TSTR NPN SI BCW 32	1	R157	J707385P104	RES MFLM 1/8W 100K 5%	1
Q112	J707386P2	TSTR NPN SI BCW 72	1	R158	J708538P7	RES VAR CERM 50K 20%	1
Q113	J707386P1	TSTR NPN SI BCW 32	1	R159	J707385P103	RES MFLM 1/8W 10K 5%	1

PARTS LIST FOR CHARGING UNIT CU6004 : K805909G1 BD REV. 3/C

Pos	Code No.	Description		Qt	Pos	Code No.	Description		Qt
R160	J707385P224	RES MFLM 1/8W 220K	5%	1					
R161	J707385P224	RES MFLM 1/8W 220K	5%	1					
R162	J707406P5	RES THERM NTC	47K	10%					
R163	J709328P366	RES MFLM 1/8W	47K5	1%					
R164	J707385P100	RES MFLM 1/8W	10R	5%					
R165	J708538P5	RES VAR CERM	10K	20%					
R166	J707385P103	RES MFLM 1/8W	10K	5%					
R167	J707385P103	RES MFLM 1/8W	10K	5%					
T101	K805623G2	TRANSFORMER		1					
U101	J708503P1	IC LIN CMPAR	LM 239	1					
U102	J708503P1	IC LIN CMPAR	LM 239	1					
XF01	J708025P1	FUSE HOLDER	5.0X20.0MM	1					
XF02	J708025P1	FUSE HOLDER	5.0X20.0MM	1					
X101	J706683P2	TERM SPADE	TAB 2.8MM	1					
	M906316P1R3	BD PW		1					
NON REFERENCED ITEMS:									
	J710245P1	CORE ACCESS	WASH INS	1					
	J710273P1	INSULATION	FUSE HLD	1					
	J710169P1	SUPPORT	CHARGER	1					
	A701502P1	BMPR		1					

DATE: 11/8/1988

Pos	Code No	Description	Qt	Pos	Code No	Description	Qt
A001	M906315G1	COMPONENT BD PW	1	R115	J707385P564	RES MFLM 1/8W 560K	5%
J101	J708471P3	CONN MULTI PLUG 25-CKT	1	R116	J707385P104	RES MFLM 1/8W 100K	5%
J104	J710179P1	CONN PWR RECP 02-CKT	1	R117	J709328P381	RES MFLM 1/8W 68K1	1%
R168	J706958P4	RES WW 5W 1R0 10%	1	R118	J709328P366	RES MFLM 1/8W 47K5	5%
W001	J707210P100	WIRE 0.220 SQ 8K	1	R121	J707385P106	RES MFLM 1/8W 10MO	10%
W002	J707210P2	WIRE 0.220 SQ RD	1	R122	J707385P102	RES MFLM 1/8W 1KO	5%
		NON REFERENCE ITEMS		R123	J709328P401	RES MFLM 1/8W 100K	1%
	A700031P305	SCR PAN HD M-2.5X 5.0	3	R124	J707385P424	RES MFLM 1/8W 174K	1%
	A700034P3	NUT HEX M-2.5X0.45	3	R125	J707385P224	RES MFLM 1/8W 220K	5%
	J709245G2	HEAT SINK PAINTED	1	R126	J707385P103	RES MFLM 1/8W 10K	5%
	J708766P1	INS SHEET FOR TO-220	1	R127	J707385P224	RES MFLM 1/8W 220K	5%
	A700068P1	INS BUSH	1	R128	J707385P103	RES MFLM 1/8W 10K	5%
	A700031P306	SCR PAN HD M-2.5X 6.0	1	R129	J707385P224	RES MFLM 1/8W 220K	5%
	A700034P3	NUT HEX M-2.5X0.45	1	R130	J707385P103	RES MFLM 1/8W 10K	5%
	A700031P206	SCR PAN HD M-2.0X 6.0	2	R131	J709328P388	RES MFLM 1/8W 80K6	1%
	A700034P2	NUT HEX M-2.0X0.40	2	R132	J707385P561	RES MFLM 1/8W 560R	5%
	J706076P4	WASH SPG 2.7X 4.9	1	R133	J707385P105	RES MFLM 1/8W 1MO	10%
	J708634P1	TERM SLD D-3.2 L9	1	R134	J707385P473	RES MFLM 1/8W 47K	5%
A001	M906315G1	COMPONENT BD PW		R135	J709328P301	RES MFLM 1/8W 10K	1%
C101	J707438P26	CAP CER CL2 100N 10%	1	R136	J707385P223	RES MFLM 1/8W 22K	5%
C102	J706005P14	CAP ELECT 220U 40V	1	R137	J707385P473	RES MFLM 1/8W 47K	5%
C103	J707444P4	CAP TA SOL 1U 35V	1	R138	J707385P104	RES MFLM 1/8W 100K	5%
C104	J707444P7	CAP TA SOL 10U 16V	1	R139	J707385P223	RES MFLM 1/8W 22K	5%
C105	J707436P69	CAP CER NPO 220P 5%	1	R140	J707385P333	RES MFLM 1/8W 33K	5%
C106	J707444P4	CAP TA SOL 1U 35V	1	R141	J707385P102	RES MFLM 1/8W 1KO	5%
C107	J707438P26	CAP CER CL2 100N 10%	1	R142	J707385P683	RES MFLM 1/8W 68K	5%
C108	J707444P4	CAP TA SOL 1U 35V	1	R143	J707385P124	RES MFLM 1/8W 120K	5%
C109	J707438P5	CAP CER CL2 1N 10%	1	R144	J707385P105	RES MFLM 1/8W 1MO	10%
C110	J706005P10	CAP ELECT 220U 25V	1	R145	J707385P222	RES MFLM 1/8W 2K2	5%
C111	J707438P26	CAP CER CL2 100N 10%	1	R146	J707385P103	RES MFLM 1/8W 10K	5%
C112	J707438P14	CAP CER CL2 10N 10%	1	R147	J707385P947	RES MFLM 1/8W 4R7	20%
C113	J707438P14	CAP CER CL2 10N 10%	1	R148	J707385P821	RES MFLM 1/8W 820R	5%
D101	J706026P1	DIO SI PWR 1N5401	1	R149	J710092P1	RES WN 1/1W OR22	10%
D102	J707459P8	DIO SI ZENR 9V1 5% 0.2W	1	R150	J707385P104	RES MFLM 1/8W 100K	5%
D103	J708681P1	DIO SI SIG BAW 56	1	R151	J707385P151	RES MFLM 1/8W 150R	5%
D105	J707390P1	DIO SI SIG BAV 74	1	R152	J707385P100	RES MFLM 1/8W 10R	5%
D106	J707390P1	DIO SI SIG BAV 74	1	R153	J707385P100	RES MFLM 1/8W 10R	5%
D108	J706270P1	DIO SI ZENR 5V6 2% 0.4W	1	R154	J707385P473	RES MFLM 1/8W 47K	5%
D109	J707764P1	DIO OPTO RD ESR85501	1	R155	J707385P104	RES MFLM 1/8W 100K	5%
D110	J706282P2	DIO SI PWR 1N4934	1	R156	J707385P472	RES MFLM 1/8W 4K7	5%
D111	J708734P1	DIO SI PWR BYV 28-100	1	R157	J707385P104	RES MFLM 1/8W 100K	5%
D112	J707764P2	DIO OPTO GN ESBG5501	1	R158	J708538P7	RES VAR CERM 50K	20%
D113	J707390P1	DIO SI SIG BAV 74	1	R159	J707385P103	RES MFLM 1/8W 10K	5%
D114	J707459P4	DIO SI ZENR 6V8 5% 0.2W	1	R160	J707385P224	RES MFLM 1/8W 220K	5%
F101	J706998P8	FUSE CTG 3.15A T	1	R161	J707385P224	RES MFLM 1/8W 220K	5%
J102	J708925P1	CONN PT PIN L-9.70MM	25	R162	J707406P5	RES THERM NTC 47K	10%
J103	J708068P4	CONN PWB MALE RECP 04-CKT	1	R163	J709328P366	RES MFLM 1/8W 47K5	1%
K101	J708281P1	RELAY OPEN 12V 110R	1	R164	J707385P100	RES MFLM 1/8W 10R	5%
L101	J708732P3	COIL RF FIX 2-1/2T	1	T101	K805623G2	TRANSFORMER	1
L102	J708732P3	COIL RF FIX 2-1/2T	1	U101	J708503P1	IC LIN CMPAR LM 239	1
L103	J710041P1	CORE TOR FERR	1	U102	J708503P1	IC LIN CMPAR LM 239	1
L104	J708732P3	COIL RF FIX 2-1/2T	1	XF01	J708025P1	FUSE HOLDER 5.0X20.0MM	1
Q101	J707386P1	TSTR NPN SI BCW 32	1	XF02	J708025P1	FUSE HOLDER 5.0X20.0MM	1
Q102	J707386P1	TSTR NPN SI BCW 32	1	X101	J706683P2	TERM SPADE TAB 2.8MM	1
Q103	J7065310P2	TSTR PNP SI BC 636	1	M906315P1R3	BD PW	1	
Q104	J707386P1	TSTR NPN SI BCW 32	1			NON REFERENCE ITEMS	
Q105	J707386P2	TSTR NPN SI BCW 72	1		J710245P1	CORE ACCESS WASH INS	1
Q106	J707386P1	TSTR NPN SI BCW 32	1		J710273P1	INSULATION FUSE HLD	1
Q107	J707386P1	TSTR NPN SI BCW 32	1		J710169P1	SUPPORT CHARGER	1
Q108	J707387P1	TSTR PNP SI BCW 30	1		A701502P1	BMPR	1
Q109	J707386P1	TSTR MFET SI BUZ 21	1				
Q110	J707387P1	TSTR PNP SI BCW 30	1				
Q111	J707386P1	TSTR NPN SI BCW 32	1				
Q112	J707386P2	TSTR NPN SI BCW 72	1				
Q113	J707386P1	TSTR NPN SI BCW 32	1				
Q114	J707386P1	TSTR NPN SI BCW 32	1				
Q115	J707387P1	TSTR PNP SI BCW 30	1				
R101	J707385P473	RES MFLM 1/8W 47K	5%				
R102	J707385P472	RES MFLM 1/8W 4K7	5%				
R103	J707385P225	RES MFLM 1/8W 2M2	5%				
R104	J707385P473	RES MFLM 1/8W 47K	5%				
R105	J707385P103	RES MFLM 1/8W 10K	5%				
R106	J707385P473	RES MFLM 1/8W 47K	5%				
R107	J707385P104	RES MFLM 1/8W 100K	5%				
R108	J707385P472	RES MFLM 1/8W 4K7	5%				
R109	J709328P366	RES MFLM 1/8W 47K5	1%				
R110	J709328P403	RES MFLM 1/8W 105K	1%				
R111	J707385P150	RES MFLM 1/8W 15R	5%				
R112	J707385P104	RES MFLM 1/8W 100K	5%				
R113	J707385P104	RES MFLM 1/8W 100K	5%				
114	J707385P104	RES MFLM 1/8W 100K	5%				

Pos	Code No	Description	Qt	Pos	Code No	Description	Qt
A001	M906315G1	COMPONENT BD PW	1	R130	J707385P103	RES MFLM 1/8W 10K	5%
J101	J708471P3	CONN MULTI PLUG 25-CKT	1	R131	J709328P388	RES MFLM 1/8W 80K6	1%
J104	J710179P1	CONN POWER RECP 02-CKT	1	R132	J707385P561	RES MFLM 1/8W 560R	5%
R168	J706958P4	RES WW 5W 1R0 10%	1	R133	J707385P105	RES MFLM 1/8W 1MO	10%
W001	J707210P100	WIRE 0.220 SQ BK	1	R134	J707385P473	RES MFLM 1/8W 47K	5%
W002	J707210P2	WIRE 0.220 SQ RD	1	R135	J709328P301	RES MFLM 1/8W 10K	1%
A001	M906315G1	COMPONENT BD PW	1	R136	J707385P223	RES MFLM 1/8W 22K	5%
C101	J707438P26	CAP CER CL2 100N 10%	1	R137	J707385P473	RES MFLM 1/8W 47K	5%
C102	J706005P14	CAP ELECT 220U 40V	1	R138	J707385P104	RES MFLM 1/8W 100K	5%
C103	J707444P4	CAP TA SOL 1U 35V	1	R139	J707385P223	RES MFLM 1/8W 22K	5%
C104	J707444P7	CAP TA SOL 10U 16V	1	R140	J707385P333	RES MFLM 1/8W 33K	5%
C105	J707436P69	CAP CER NPO 220P 5%	1	R141	J707385P102	RES MFLM 1/8W 1KO	5%
C106	J707444P4	CAP TA SOL 1U 35V	1	R142	J707385P683	RES MFLM 1/8W 68K	5%
C107	J707438P26	CAP CER CL2 100N 10%	1	R143	J707385P124	RES MFLM 1/8W 120K	5%
C108	J707444P4	CAP TA SOL 1U 35V	1	R144	J707385P105	RES MFLM 1/8W 1MO	10%
C109	J707438P5	CAP CER CL2 1N 10%	1	R145	J707385P222	RES MFLM 1/8W 2K2	5%
C110	J706005P10	CAP ELECT 220U 25V	1	R146	J707385P103	RES MFLM 1/8W 10K	5%
C111	J707438P26	CAP CER CL2 100N 10%	1	R147	J707385P947	RES MFLM 1/8W 4R7	20%
C112	J707438P14	CAP CER CL2 10N 10%	1	R148	J707385P821	RES MFLM 1/8W 820R	5%
C113	J707438P14	CAP CER CL2 10N 10%	1	R149	J710092P1	RES WW 1/1W OR22	10%
D101	J706026P1	DIO SI PWR 1N5401	1	R150	J707385P104	RES MFLM 1/8W 100K	5%
D102	J707459P8	DIO SI ZENR 9V1 5% 0.2W	1	R151	J707385P680	RES MFLM 1/8W 68R	5%
D103	J708681P1	DIO SI SIG BAW 56	1	R152	J707385P100	RES MFLM 1/8W 10R	5%
D105	J707390P1	DIO SI SIG BAV 74	1	R153	J707385P100	RES MFLM 1/8W 10R	5%
D106	J707390P1	DIO SI SIG BAV 74	1	R154	J707385P473	RES MFLM 1/8W 47K	5%
D108	J706270P1	DIO SI ZENR 5V6 2% 0.4W	1	R155	J707385P472	RES MFLM 1/8W 4K7	5%
D109	J707764P1	DIO OPTO RD ESBR5501	1	R156	J707385P104	RES MFLM 1/8W 100K	5%
D110	J706282P2	DIO SI PWR 1N4934	1	R157	J708538P7	RES VAR CERM 50K	20%
D111	J708734P1	DIO SI PWR BYV 28-100	1	R158	J707385P103	RES MFLM 1/8W 10K	5%
D112	J707764P2	DIO OPTO GN ESBG5501	1	R159	J707385P103	RES MFLM 1/8W 10K	5%
D113	J707390P1	DIO SI SIG BAV 74	1	R160	J707385P224	RES MFLM 1/8W 220K	5%
D114	J707459P4	DIO SI ZENR 6V8 5% 0.2W	1	R161	J707385P224	RES MFLM 1/8W 220K	5%
F101	J706998P8	FUSE CTG 3.15A T	1	R162	J707406P5	RES THERM NTC 47K	10%
J102	J708925P1	CONN PT 25 PINS L-9.70MM	1	R163	J709328P366	RES MFLM 1/8W 47K5	1%
J103	J708068P4	CONN PWB MALE RECP 04-CKT	1	R164	J707385P100	RES MFLM 1/8W 10R	5%
K101	J708281P1	RELAY OPEN 12V 110R	1	R165	J708538P5	RES VAR CERM 10K	20%
L101	J708732P3	COIL RF FIX 2-1/2T	1	R166	J707385P103	RES MFLM 1/8W 10K	5%
L102	J708732P3	COIL RF FIX 2-1/2T	1	R167	J707385P103	RES MFLM 1/8W 10K	5%
L103	J710041P1	CORE TOR FERR	1	T101	K805623G2	TRANSFORMER	1
L104	J708732P3	COIL RF FIX 2-1/2T	1	U101	J708503P1	IC LIN CMPAR LM 239	1
Q101	J707386P1	TSTR NPN SI BCW 32	1	U102	J708503P1	IC LIN CMPAR LM 239	1
Q102	J707386P1	TSTR NPN SI BCW 32	1	XF01	J708025P1	FUSE HOLDER 5.0X20.0MM	1
Q103	J706530P2	TSTR PNP SI BC 636	1	XF02	J708025P1	FUSE HOLDER 5.0X20.0MM	1
Q104	J707386P1	TSTR NPN SI BCW 32	1	X101	J706683P2	TERM SPADE TAB 2.8MM	1
Q105	J707386P2	TSTR NPN SI BCW 72	1	M906316P1R3	BD PW	1	
Q106	J707386P1	TSTR NPN SI BCW 32	1				
Q107	J707386P1	TSTR NPN SI BCW 32	1				
Q108	J707387P1	TSTR PNP SI BCW 30	1				
Q109	J707836P1	TSTR MFET SI BUZ 21	1				
Q110	J707387P1	TSTR PNP SI BCW 30	1				
Q111	J707386P1	TSTR NPN SI BCW 32	1				
Q112	J707386P2	TSTR NPN SI BCW 72	1				
Q113	J707386P1	TSTR NPN SI BCW 32	1				
Q114	J707386P1	TSTR NPN SI BCW 32	1				
Q115	J707387P1	TSTR PNP SI BCW 30	1				
R101	J707385P473	RES MFLM 1/8W 47K	5%				
R102	J707385P472	RES MFLM 1/8W 4K7	5%				
R103	J707385P225	RES MFLM 1/8W 2M2	5%				
R104	J707385P473	RES MFLM 1/8W 47K	5%				
R105	J707385P103	RES MFLM 1/8W 10K	5%				
R106	J707385P473	RES MFLM 1/8W 47K	5%				
R107	J707385P104	RES MFLM 1/8W 100K	5%				
R108	J707385P472	RES MFLM 1/8W 4K7	5%				
R109	J709328P366	RES MFLM 1/8W 47K5	1%				
R110	J709328P403	RES MFLM 1/8W 105K	1%				
R111	J707385P150	RES MFLM 1/8W 15R	5%				
R112	J707385P104	RES MFLM 1/8W 100K	5%				
R113	J707385P104	RES MFLM 1/8W 100K	5%				
R114	J707385P104	RES MFLM 1/8W 100K	5%				
R115	J707385P564	RES MFLM 1/8W 560K	5%				
R116	J707385P104	RES MFLM 1/8W 100K	5%				
R118	J709328P366	RES MFLM 1/8W 47K5	1%				
R121	J707385P106	RES MFLM 1/8W 10MO	10%				
R122	J707385P102	RES MFLM 1/8W 1KO	5%				
R123	J709328P401	RES MFLM 1/8W 100K	1%				
R124	J709328P424	RES MFLM 1/8W 174K	1%				
R125	J707385P224	RES MFLM 1/8W 220K	5%				
R126	J707385P103	RES MFLM 1/8W 10K	5%				
R127	J707385P224	RES MFLM 1/8W 220K	5%				
R128	J707385P103	RES MFLM 1/8W 10K	5%				
R129	J707385P224	RES MFLM 1/8W 220K	5%				

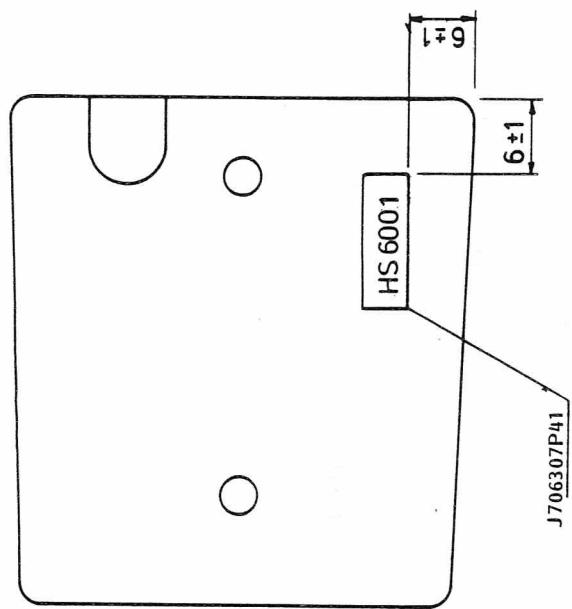
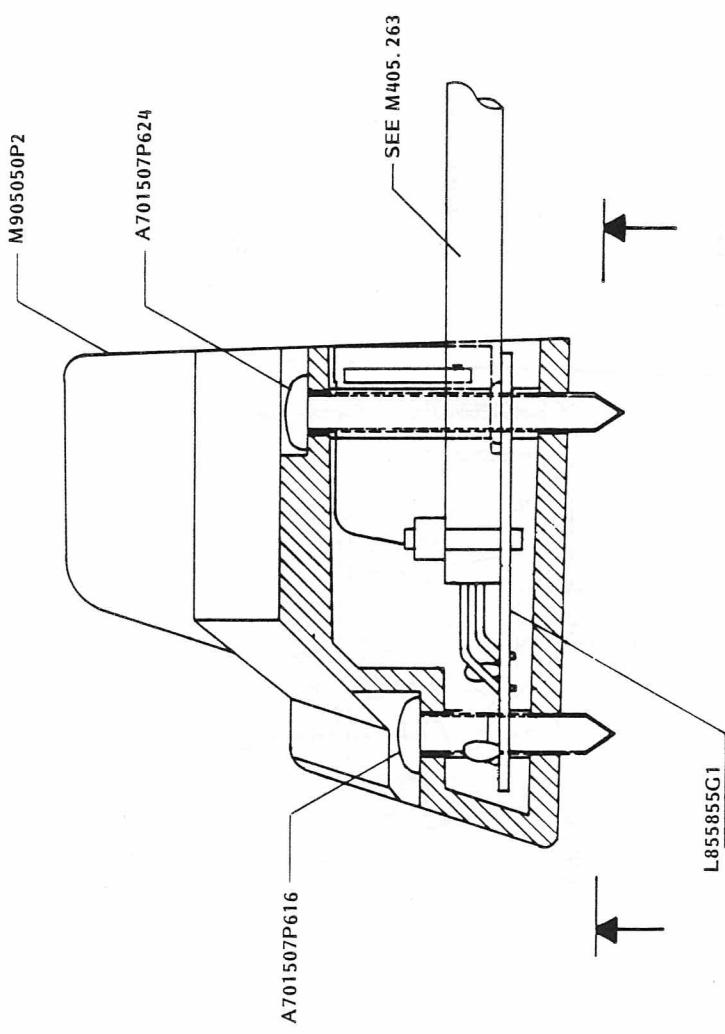
CHAPTER 2
MICROPHONE SUPPORTS

MICROPHONE SUPPORTS HS600X :

- HS6001
- HS6002
- HS6003

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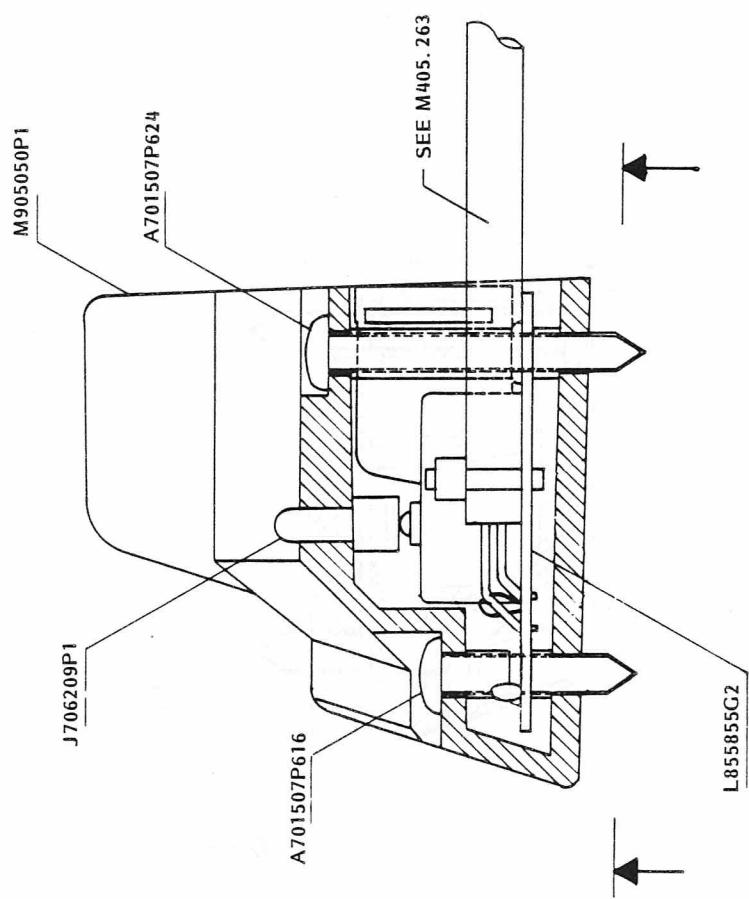
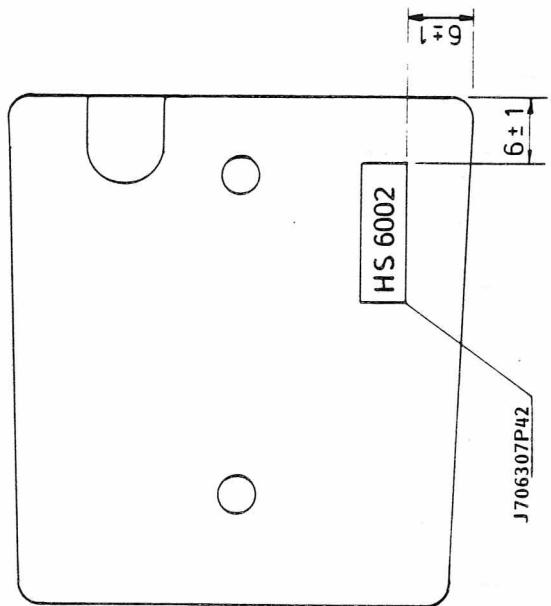
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MECHANICAL LAYOUT & PART NUMBERS
FOR HS6001 CODE NO. K805028G5

M405. 261

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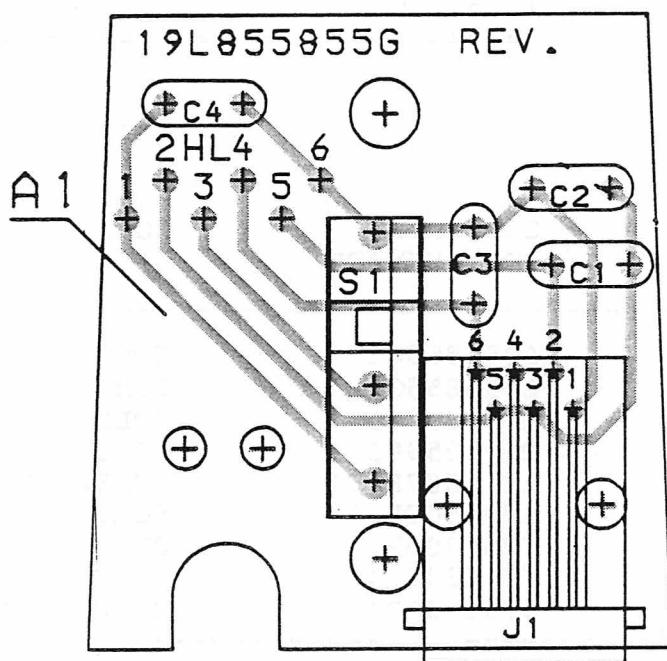
MECHANICAL LAYOUT & PART NUMBERS
FOR HS6002 CODE NO. K805028G6

M405. 262

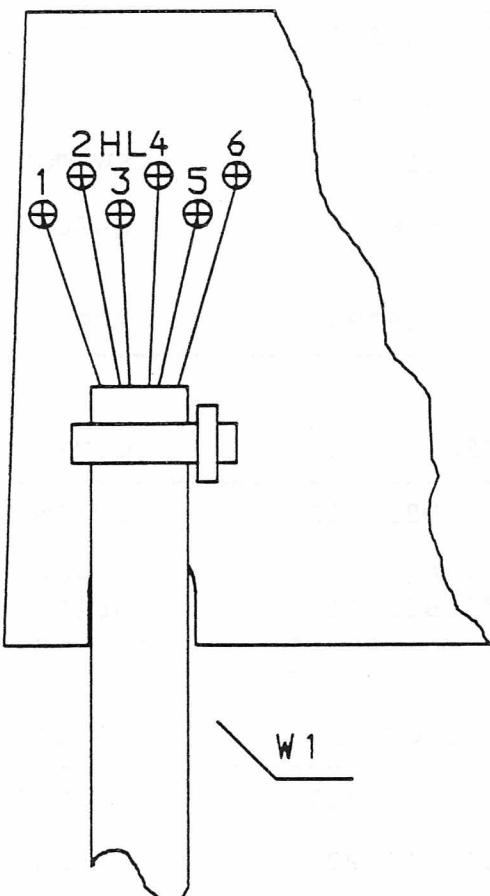
Storno

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COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



HL	COLOR IEC 304	
	G1	G2
1	3	1
2	4	4
3	NC	NC
4	2	2
5	5	5
6	1	3



HANDSET HS 6001/2
COMPONENT LAYOUT
CODE NO. 855855G1/2 D404.224

ITEM NUMBER	DESCRIPTION
K805028G5/G6	HS6001/2 MICR.PH. RETAINER W. HOOKSWITCH

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	L855855G1	COMPONENT BD ASM	1 G5 (SEE BELOW)
A001	L855855G2	COMPONENT BD ASM	1 G6
0003	M905050P1	HOLDER	1 G6
0004	M905050P2	HOLDER	1 G5
0006	A701507P624	SCREW PAN HD SZ3.5X38.1AB	1
0007	A701507P616	SCREW PAN HD SZ3.5X25.4AB	1
0008	J706209P1	BUTTON	1 G6 ONLY
0009	J706307P41	NAME PLATE: 'HS 6001'	1 G5
0010	J706307P42	NAME PLATE: 'HS 6002'	1

/-----/

A001 : L855855G1/2 : COMPONENT BD ASM. :

A001	K805091G2	COMPONENT BD ASM	1 (SEE BELOW)
C001	A700233P7	CAP CER CL2 1N 20% 50V	1
C002	A700233P7	CAP CER CL2 1N 20% 50V	1
C003	A700233P7	CAP CER CL2 1N 20% 50V	1
C004	A700233P7	CAP CER CL2 1N 20% 50V	1 G2 ONLY
J001	J706197P1	CONN PWB 6POS-6CONT	1
S001	J706196P1	SWITCH PUSH E63-20A	1 G2 ONLY
W001	K805083G3	CABLE ASM	1 (SEE BELOW)
0002	J706152P5	STRAP RET W BDL D19 NYL	1

A001 : K805091G2 : COMPONENT BD ASM. :

0002	L855856P1R0	BD PW., REVISION NO.: 0	1
0005	J706207P1	SPACER LONG	1
0006	J706208P1	SPACER SHORT	1

W001 : K805083G3 : CABLE ASM. :

P001	J708069P210	CONNECTOR, FEMALE-	1
W001	J706156P2	CABLE	2,0 M
0002	J706152P5	STRAP, RET.- W. BDL D19 NYL	1

ITEM NUMBER	DESCRIPTION
K805028G6	HS 6002 ,MICR.PH. RETAINER W. HOOKSWITCH

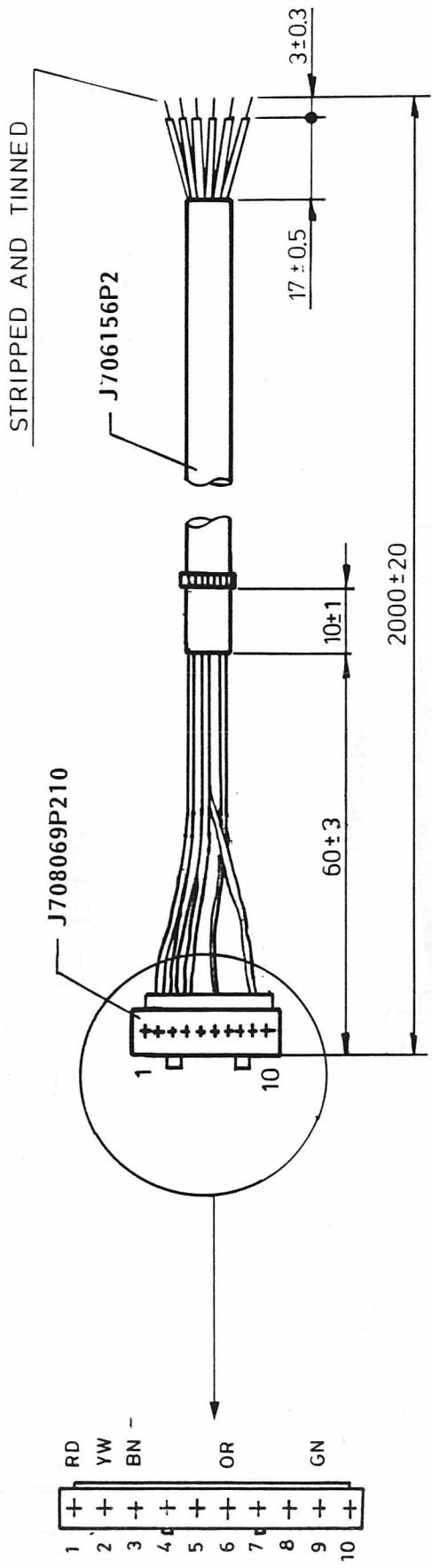
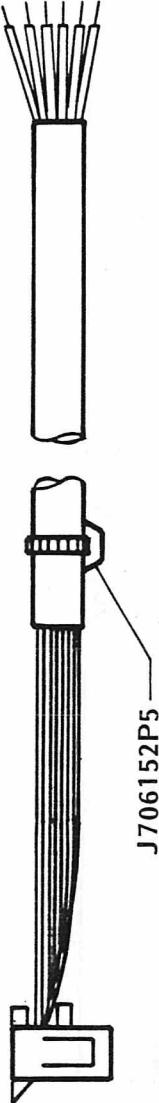
P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	L855855G2	COMPONENT BD ASM	1 (SEE BELOW)
0003	M905050P1	HOLDER	1
0006	A701507P624	SCREW PAN HD SZ3.5X38.1AB	1
0007	A701507P616	SCREW PAN HD SZ3.5X25.4AB	1
0008	J706209P1	BUTTON	1
0010	J706307P42	NAME PLATE: 'HS 6002'	1
/-----/			
A001 :	L855855G2 :	COMPONENT BD ASM. :	
A001	K805091G2	COMPONENT BD ASM	1 (SEE BELOW)
C001	A700233P7	CAP CER CL2 1N 20% 50V	1
C002	A700233P7	CAP CER CL2 1N 20% 50V	1
C003	A700233P7	CAP CER CL2 1N 20% 50V	1
C004	A700233P7	CAP CER CL2 1N 20% 50V	1
J001	J706197P1	CONN PWB 6POS-6CONT	1
S001	J706196P1	SWITCH PUSH E63-20A	1
W001	K805083G3	CABLE ASM	1 (SEE BELOW)
0002	J706152P5	STRAP RET W BDL D19 NYL	1

A001 :	K805091G2 :	COMPONENT BD ASM. :	
0002	L855856P1R0	BD PW., REVISION NO.: 0	1
0005	J706207P1	SPACER LONG	1
0006	J706208P1	SPACER SHORT	1

W001 :	K805083G3 :	CABLE ASM. :	
P001	J708069P210	CONNECTOR, FEMALE-	1
W001	J706156P2	CABLE	2,0 M
0002	J706152P5	STRAP, RET.- W. BDL D19 NYL	1



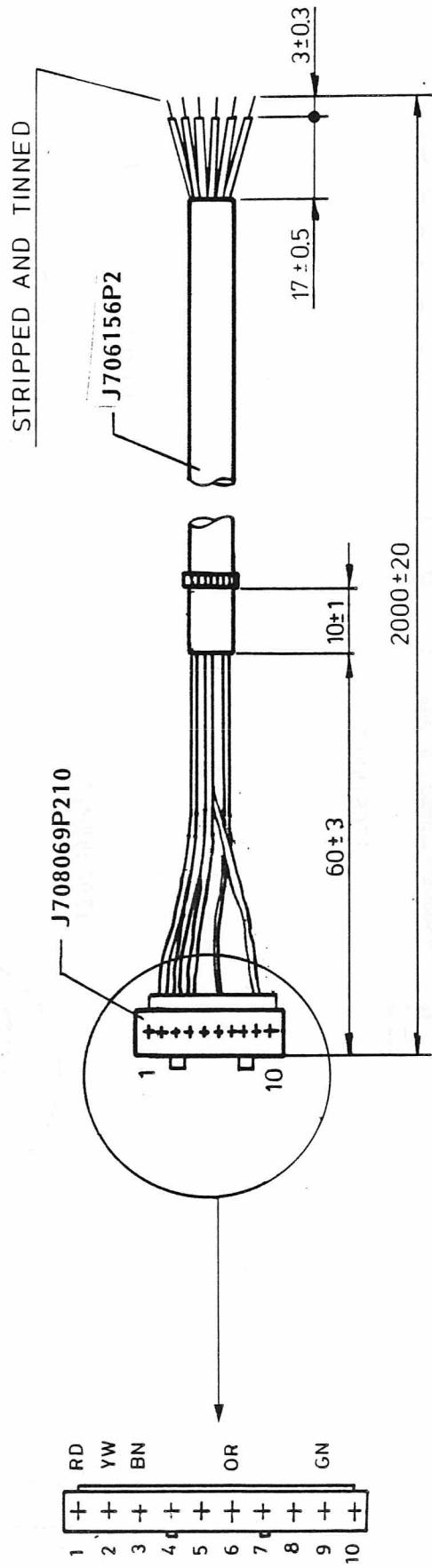
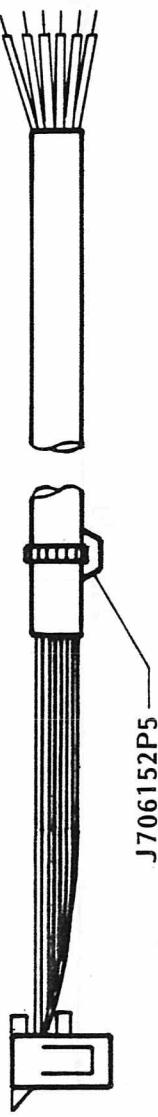


CABLE ASSEMBLY K805083G3
FOR HS6001 & HS6002

M405.263/3

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CABLE ASSEMBLY K805083G1
FOR HS6001&HS6002

M405.***3/2

DATE: 3/11/1987

Pos	Code No	Description	Qt
A001	K805091G2	COMPONENT BD ASM	1
C001	A700233P7	CAP CER CL2	1N
C002	A700233P7	CAP CER CL2	1N
C003	A700233P7	CAP CER CL2	1N
C004	A700233P7	CAP CER CL2	1N
J001	J706197P1	CONN PWB	20%G2 ONLY
S001	J706196P1	SW PUSH E63-20A	62 ONLY
W001	K805083G3	CABLE ASM	1
	L855856P1R0	BD PW	1
		NON ELECTRONICAL PARTS	
	J706152P5	STRAP RET	1
	J706207P1	SPACER LONG	1
	J706208P1	SPACER SHORT	1

Description

A001	K805091G2	COMPONENT BD ASM				
C001	A700233P7	CAP CER CL2	1N	20%		
C002	A700233P7	CAP CER CL2	1N	20%		
C003	A700233P7	CAP CER CL2	1N	20%		
C004	A700233P7	CAP CER CL2	1N	20%		
J001	J706197P1	CONN PWB	6POS 6CONT			
S001	J706196P1	SW PUSH	E63-20A			
M001	K805083G3	CABLE ASM			G2 ONLY	
L855856P1R0		BD PW				

NON ELECTRONICAL PARTS

	STRAP	RET	SPACER	LONG	SPACER	SHORT
JJ706152P5						
JJ706207P1						
JJ706208P1						

Pos	Code No	Description
-----	---------	-------------

PARTS LIST

HANDSET HS6001/HS6002 : L855855G1/G2

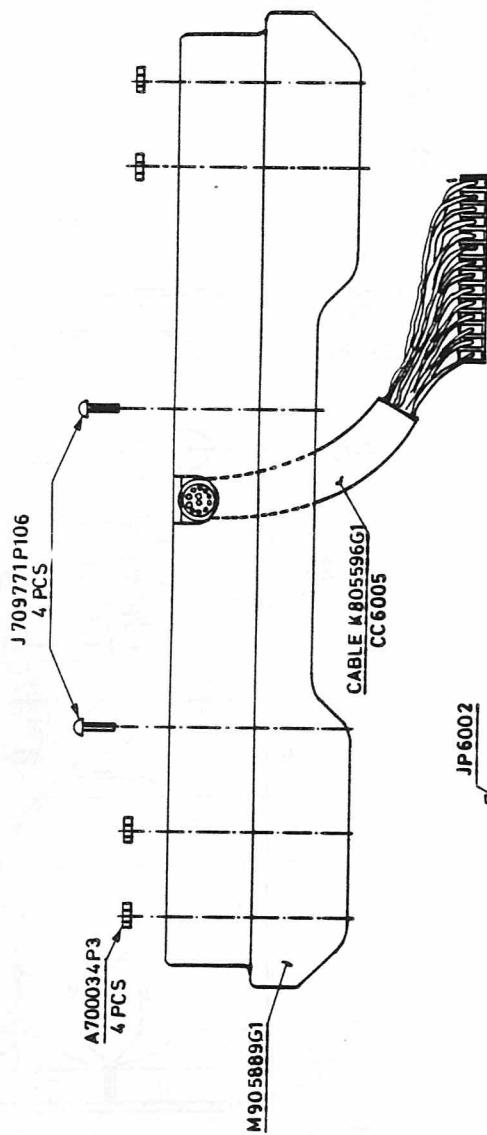
ITEM NUMBER	DESCRIPTION
K805028G5/G6	HS6001/2 MICR.PH. RETAINER W. HOOKSWITCH

PARTS LIST :

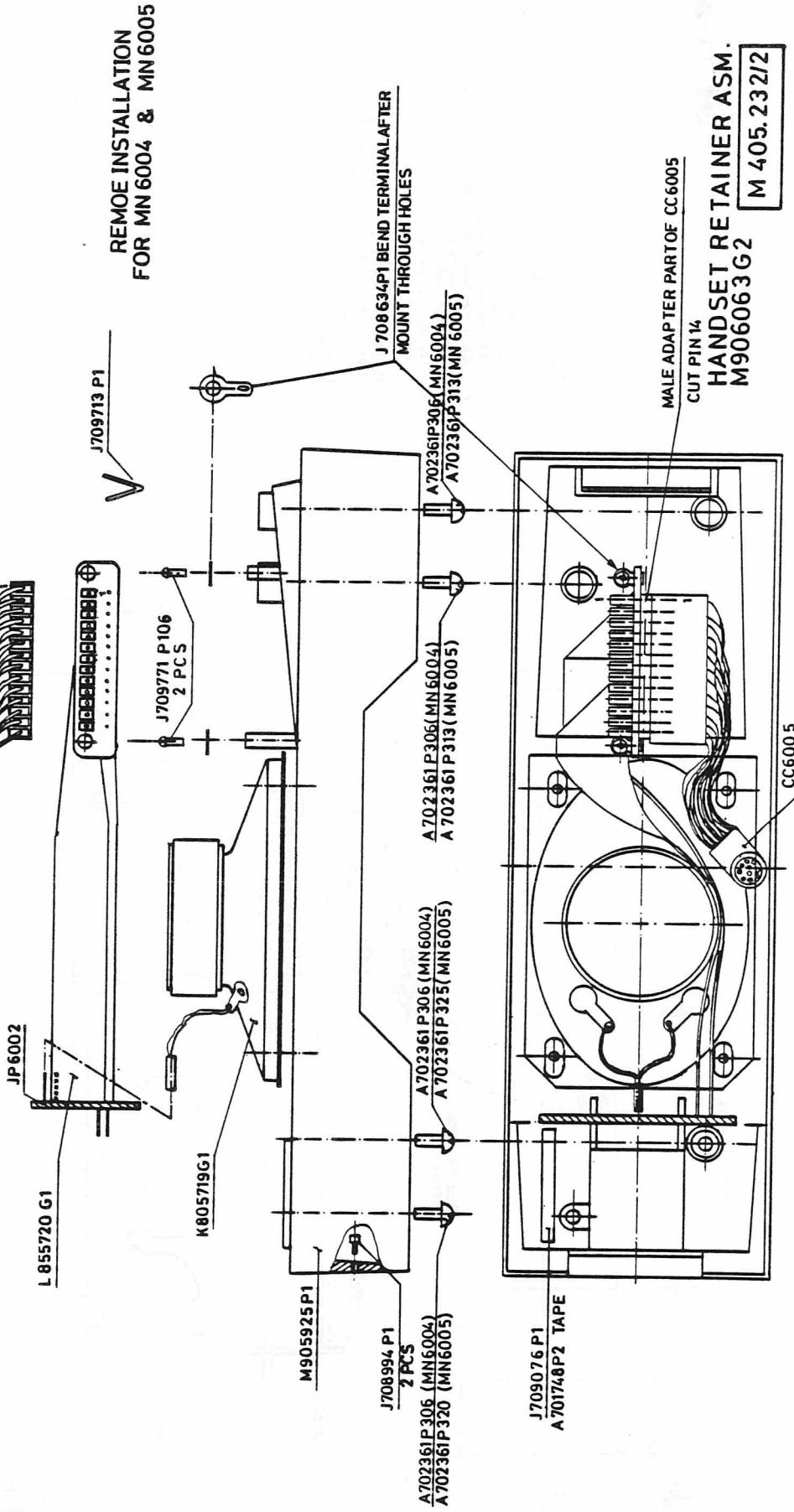
CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	L855855G1	COMPONENT BD ASM	1 G5 (SEE BELOW)
A001	L855855G2	COMPONENT BD ASM	1 G6 BELOW
0003	M905050P1	HOLDER	1 G6
0004	M905050P2	HOLDER	1 G5
0006	A701507P624	SCREW PAN HD SZ3.5X38.1AB	1
0007	A701507P616	SCREW PAN HD SZ3.5X25.4AB	1
0008	J706209P1	BUTTON	1 G6 ONLY
0009	J706307P41	NAME PLATE: 'HS 6001'	1 G5
0010	J706307P42	NAME PLATE: 'HS 6002'	1
<hr/>			
A001 :	L855855G1/2 :	COMPONENT BD ASM. :	
A001	K805091G2	COMPONENT BD ASM	1 (SEE BELOW)
C001	A700233P7	CAP CER CL2 1N 20% 50V	1
C002	A700233P7	CAP CER CL2 1N 20% 50V	1
C003	A700233P7	CAP CER CL2 1N 20% 50V	1
C004	A700233P7	CAP CER CL2 1N 20% 50V	1 G2 ONLY
J001	J706197P1	CONN PWB 6POS-6CONT	1
S001	J706196P1	SWITCH PUSH E63-20A	1 G2 ONLY
W001	K805083G3	CABLE ASM	1 (SEE BELOW)
0002	J706152P5	STRAP RET W BDL D19 NYL	1
<hr/>			
A001 :	K805091G2 :	COMPONENT BD ASM. :	
0002	L855856P1R0	BD PW., REVISION NO.: 0	1
0005	J706207P1	SPACER LONG	1
0006	J706208P1	SPACER SHORT	1
<hr/>			
W001 :	K805083G3 :	CABLE ASM. :	
P001	J708069P210	CONNECTOR, FEMALE-	1
W001	J706156P2	CABLE	2,0 M
0002	J706152P5	STRAP, RET.- W. BDL D19 NYL	1

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NOTE : USE 4 PCS.NUT A700034P3
(ONLY FOR MN 6004)



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ITEM 5 - 4 PLACES

ITEM 6
4 PLACES

ITEM 9

CABLE K805596G1
CC 6005

NOTES
PRESS ITEM 10 INTO ITEM 8

- 3 PLACE ITEM 2 IN ITEM 6.
- 4 PLACE ITEM 10 PINS ON GROOVE IN ITEM 8.
- 5 MOUNT ITEM 2 PLUGS ON PWB PLATE.
- 6 PLACE ITEM W1 SMALL PWB ON THE SPACERS AS SHOWN THEN MOUNT ITEM 13 AND 19J70634P1
- 7 PLACE ITEM W1 WIRING AROUND LS AS SHOWN
- 8 PLACE ITEM 9 INTO ITEM 8.
- 9 MOUNT SCREW ITEM 5

FOR MOUNTING OF SCREWS ITEM 7 AND NUT ITEM 6 SEE BELOW
HANDSET RETAINER USE SCREWS
MOUNTED IN 19A02361
MN 6004 P306-7 PCS.
19A02034
MN 6005 P306-7 PCS. P3-4 PCS.
SCREWS F.C.O.
INDEX 19J70634P1

SEE PART LIST X404.028

REMOTE INSTALLATION FOR
MN 6004 AND MN 6005

19J70634P1 END TERMINAL AFTER
MOUNT THROUGH HOLES

ITEM 7 OR
19A02361P11
PART OF
ITEM W1

BACKVIEW OF ITEM 8

ITEM 10
4 PLACES
ITEM 7 OR
19A02361P125
PART OF
ITEM W1

ITEM 3 AND 4

MALE ADAPTER PART OF CC6005
CUT PIN 14

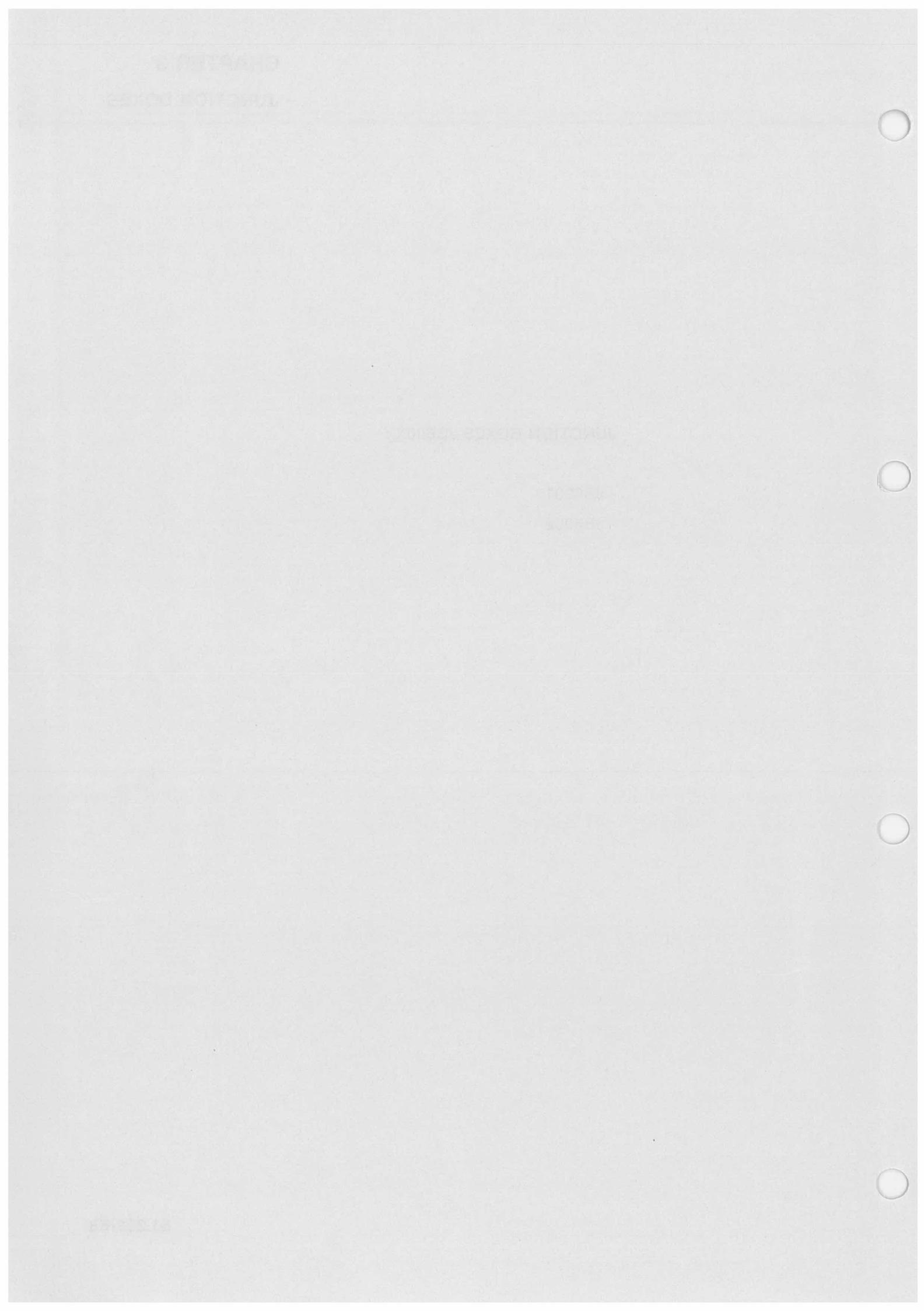
HANDSET RETAINER ASM.
M906063G1

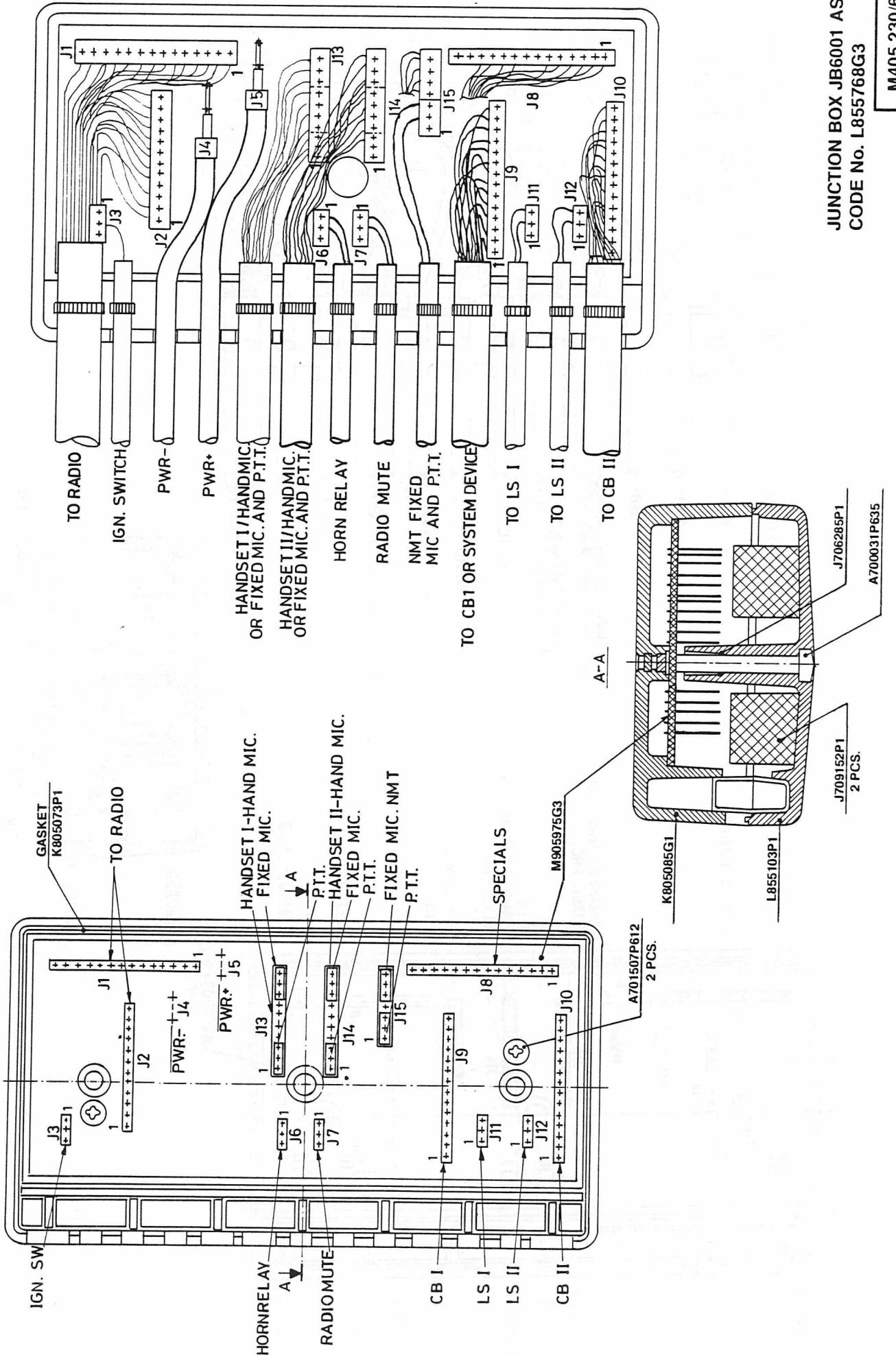
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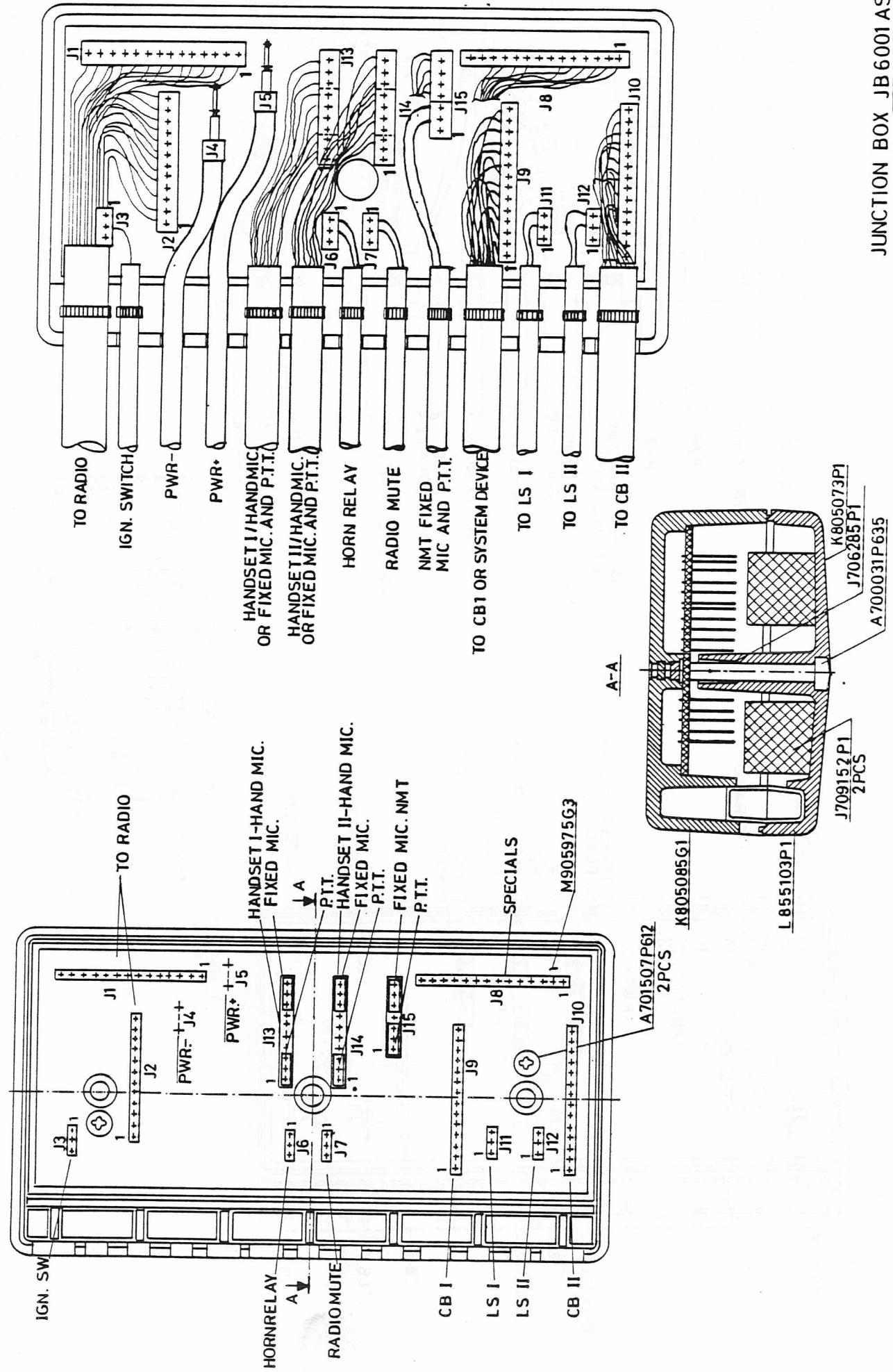
CHAPTER 3
JUNCTION BOXES

JUNCTION BOXES JB600X :

- JB6001
- JB6002







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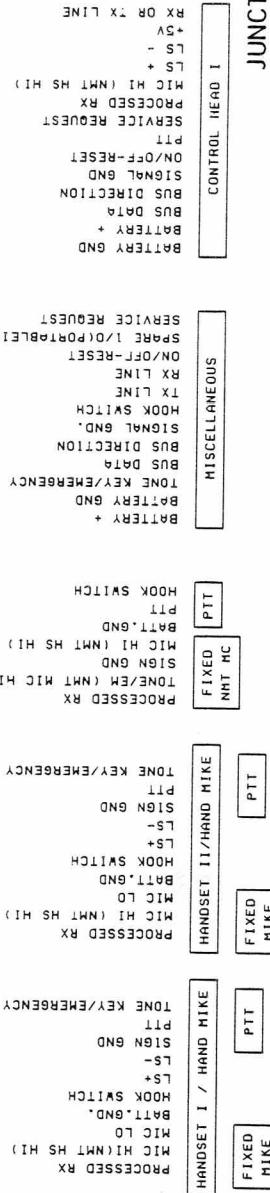
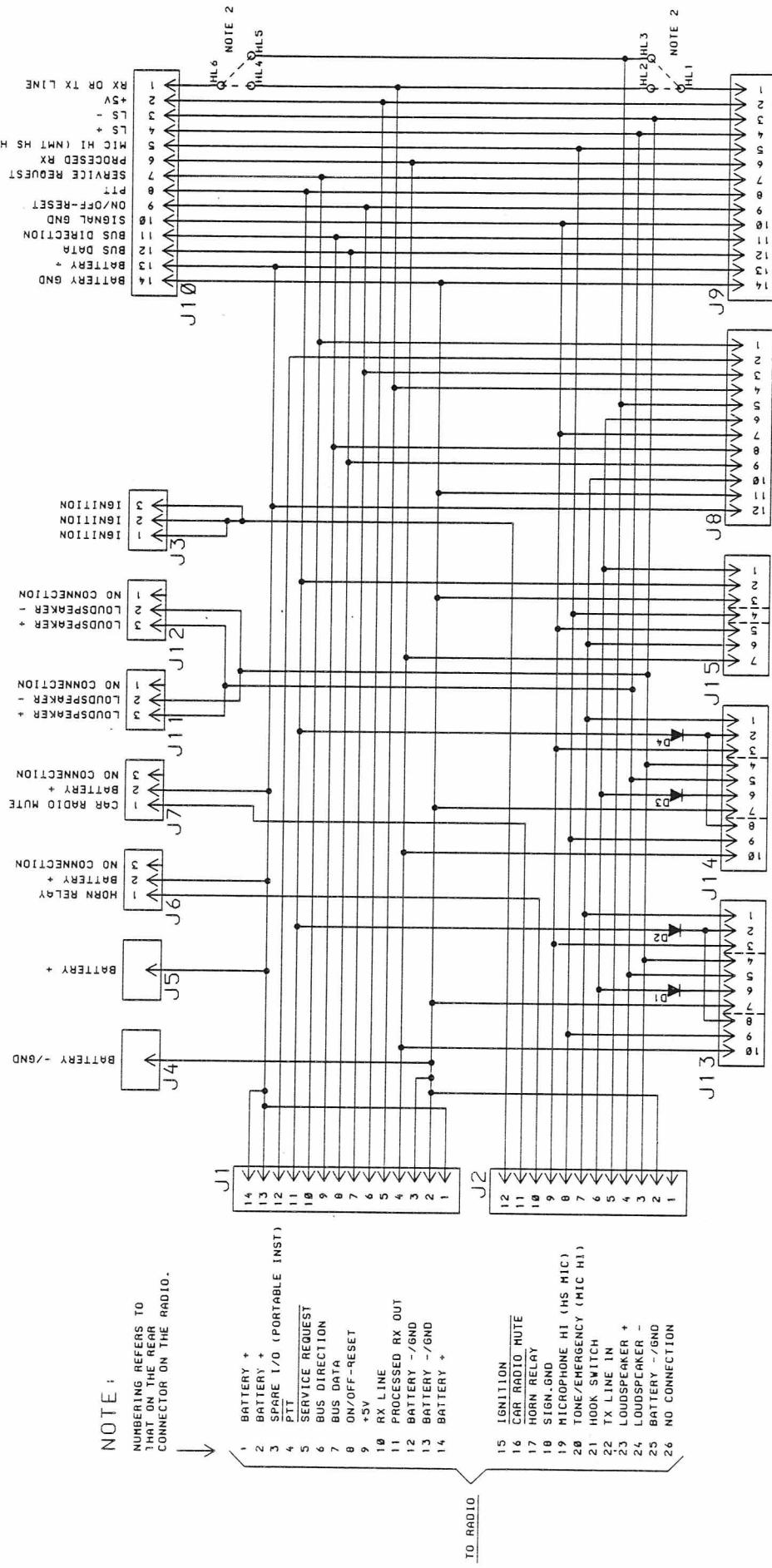
Stormo

CONTROL HEAD II

IGNITION
SWITCH

CAR RADIO
MUTE

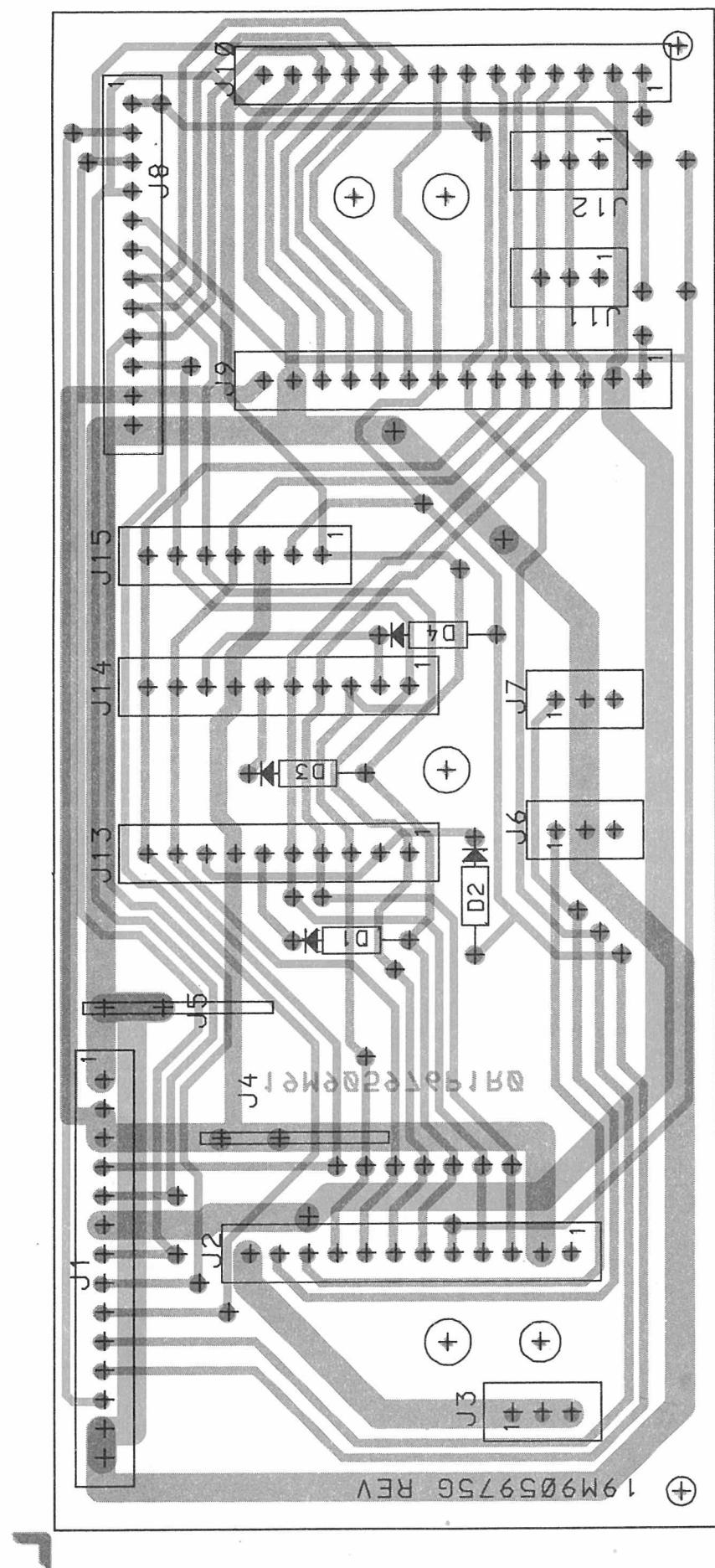
BATTERY CABLE



D404154



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MOUNTED BOARD CODE NO. M905975G1
MODULE CODE NO. L855768G1

JUNCTION BOX JB6001
COMPONENT LAYOUT

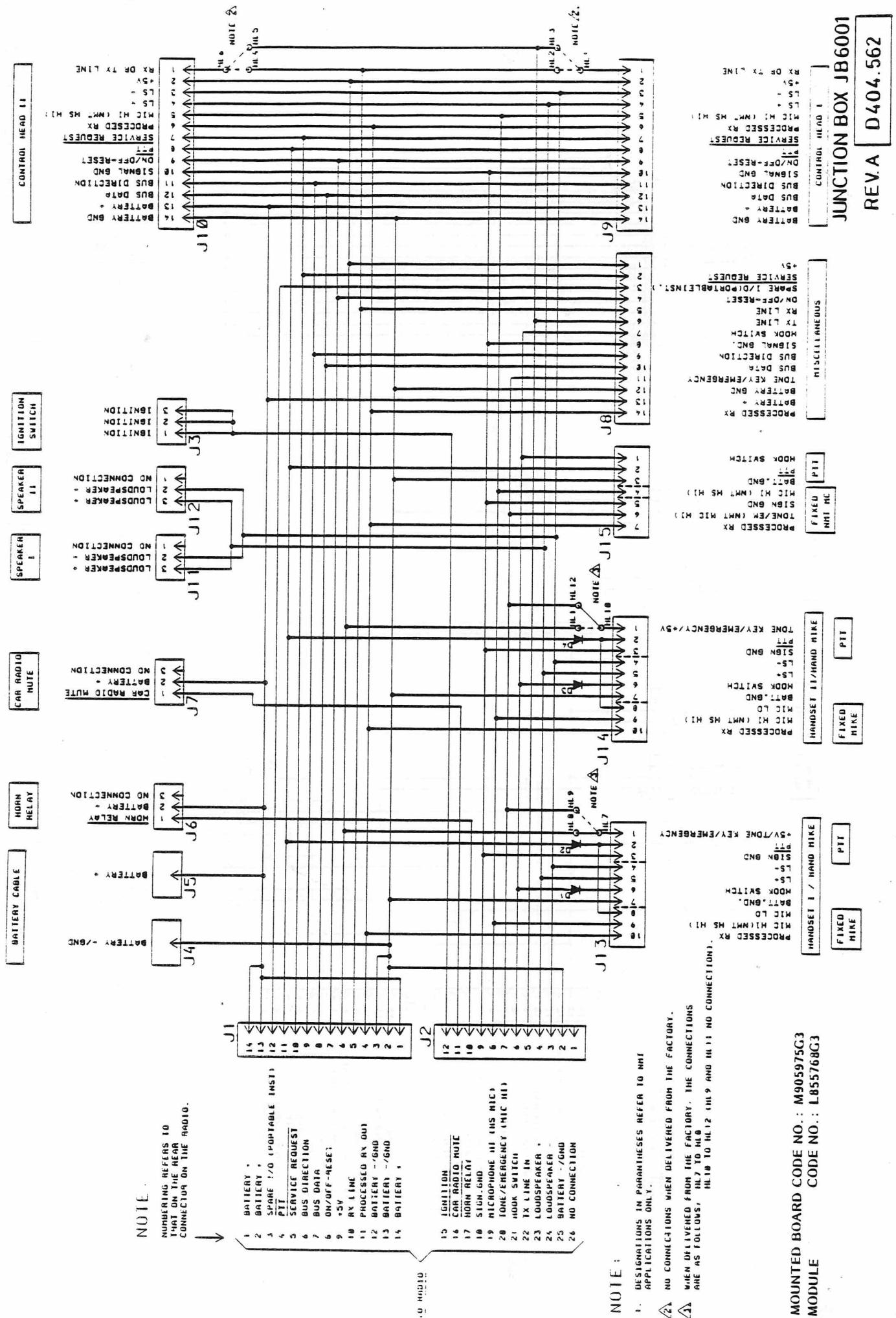
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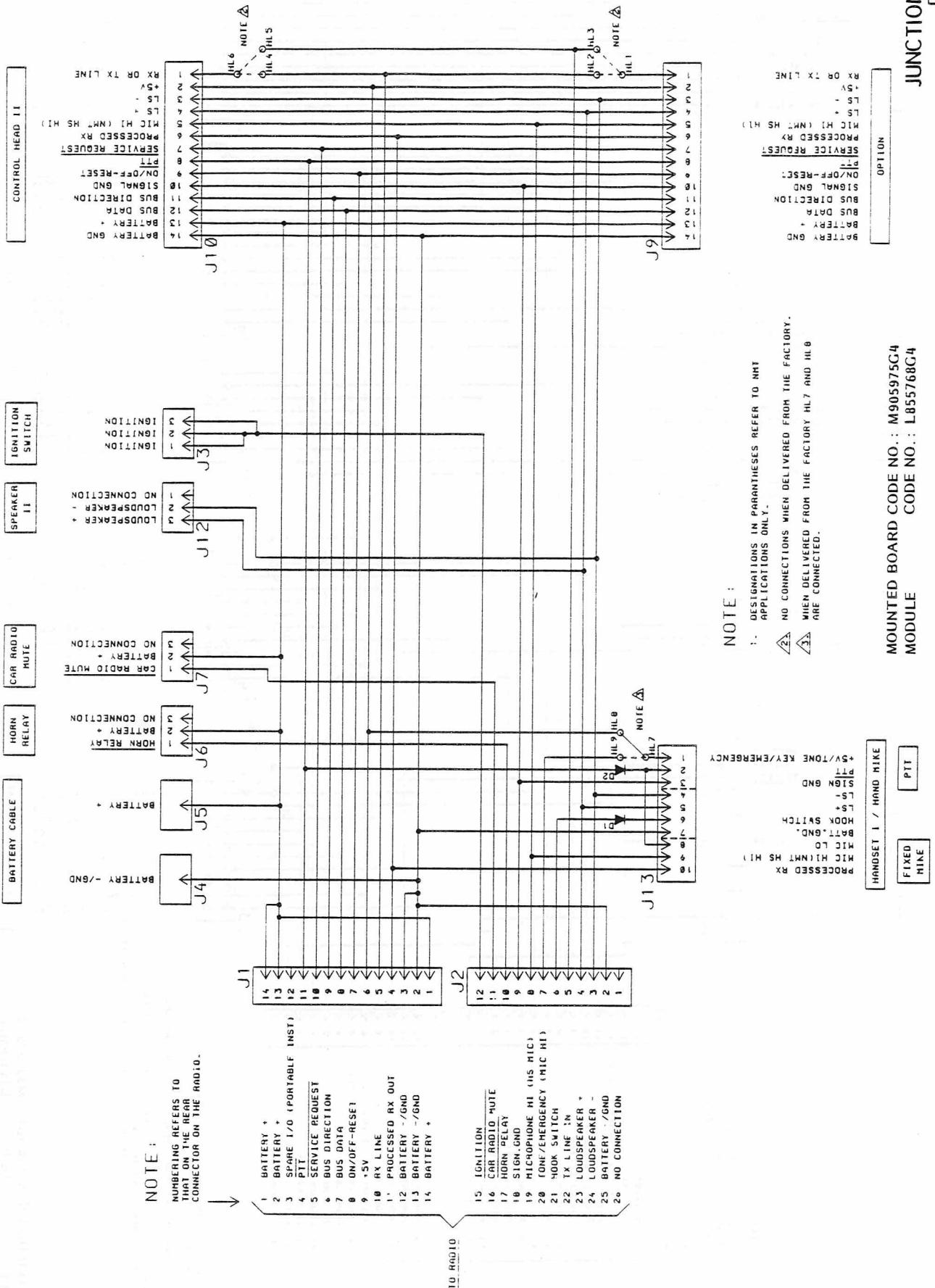
ITEM NUMBER	DESCRIPTION
L855768G1	JB 6001

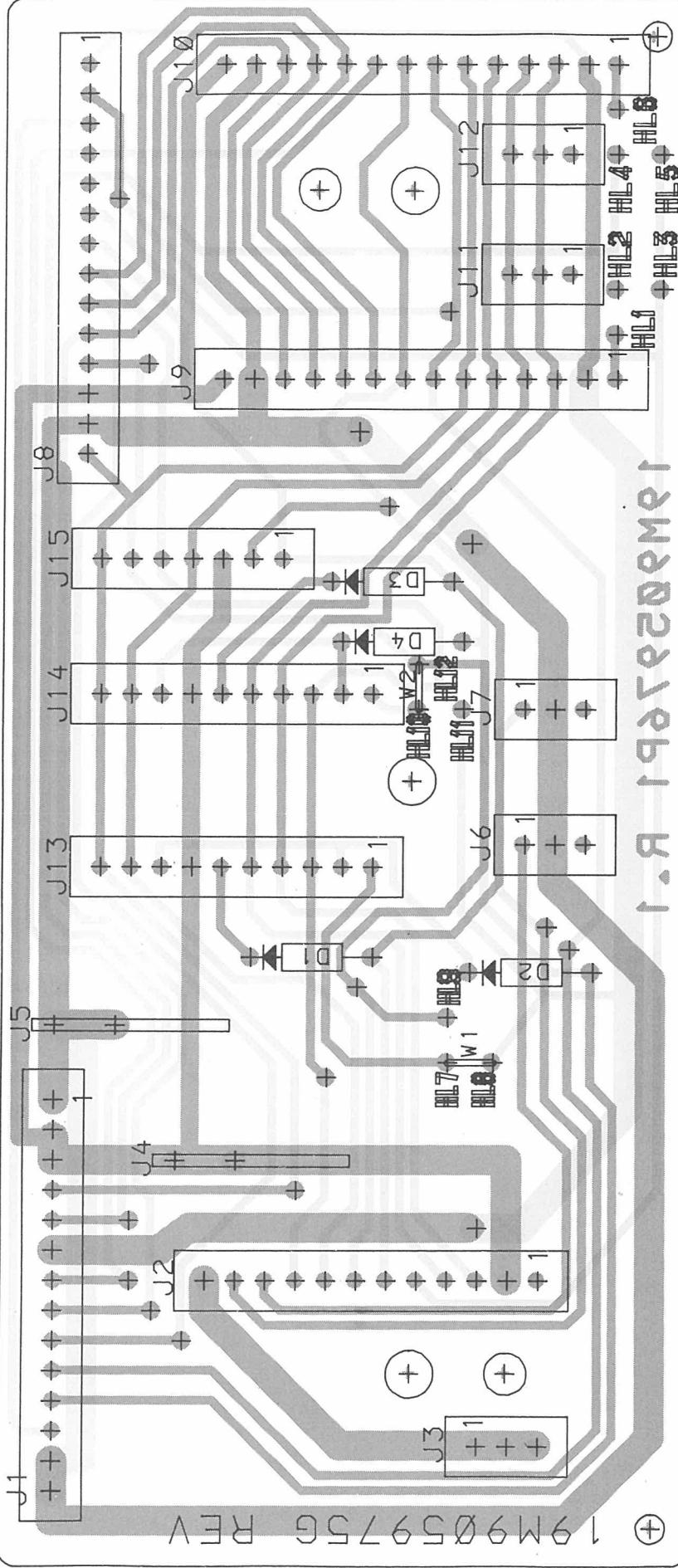
P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	M905975G1	CPNT BD PW	1 (SEE BELOW)
0003	K805073P1	GASKET	2
0004	A701507P612	SCREW PAN HD SZ3.5X19.1AB	2
0005	J706212P203	SCREW PAN HD SZ 4.0X7.9	2
0006	J706285P1	LOCKING RING	1
0007	J706307P37	NAMEPLATE JB6001	1
0010	A700031P635	SCREW PAN HD M 4.0X35.0	1
0011	J709152P1	FOAM	1
0013	K805085G1	ASM CASE	1
0014	L855103P1	COVER	1

A001 : M905975G1 :		CPNT BD PW., F. JB 6001 :	
D001	A700028P1	DIO SI SIG 1N4148	1
D002	A700028P1	DIO SI SIG 1N4148	1
D003	A700028P1	DIO SI SIG 1N4148	1
D004	A700028P1	DIO SI SIG 1N4148	1
J001	J708925P1	CONN PT PIN L=9,7 MM	14
J002	J708925P1	CONN PT PIN L=9,7 MM	12
J003	J708925P1	CONN PT PIN L=9,7 MM	3
J004	J708100P2	TERM TAB SPADE	1
J005	J708100P2	TERM TAB SPADE	1
J006	J708925P1	CONN PT PIN L=9,7 MM	3
J007	J708925P1	CONN PT PIN L=9,7 MM	3
J008	J708925P1	CONN PT PIN L=9,7 MM	12
J009	J708925P1	CONN PT PIN L=9,7 MM	14
J010	J708925P1	CONN PT PIN L=9,7 MM	14
J011	J708925P1	CONN PT PIN L=9,7 MM	3
J012	J708925P1	CONN PT PIN L=9,7 MM	3
J013	J708925P1	CONN PT PIN L=9,7 MM	10
J014	J708925P1	CONN PT PIN L=9,7 MM	10
J015	J708925P1	CONN PT PIN L=9,7 MM	7
0002	M905976P1R0	BD PW., REVISION NO.: 0	1







1. MOUNTED BOARD CODE NO. M905975G3 }
MODULE CODE NO. L855768G3 } JB6001
2. MOUNTED BOARD CODE NO. M905975G4 }
MODULE CODE NO. L855768G4 } JB6002

NOTE:
D3, D4, J8, J11, J14, J15 AND
W2 ONLY IN G3

JUNCTION BOX JB 6001/2
COMPONENT LAYOUT
REV. 1 D404.560

Parts List

JUNCTION BOX JB6001 : L855768G3

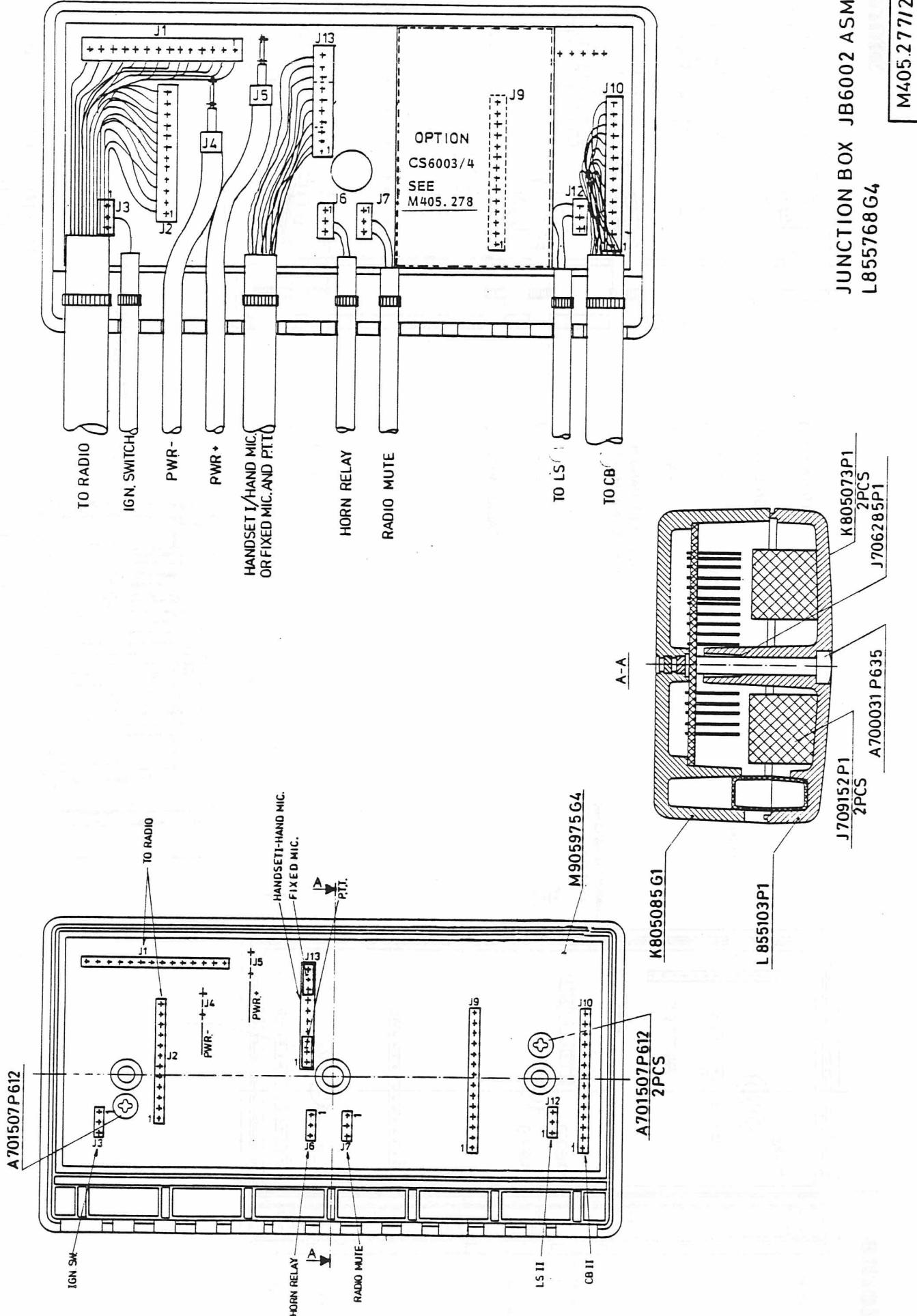
X404.563 Page No. 1/1

Pos.	Code No.	Description	Qty.
Pos.	Code No.	Description	Qty.
A001	M905975G3	COMPONENT BD PW	1
0003	K805073P1	GASKET	2
0004	A701507P612	SCR,PAN HD	2
0005	J706212P203	SCR,PAN HD	2
0006	J706285P1	LOCKING RING	2
0007	J706307P37	NAME PLATE JB6001	1
0010	A700031P635	SCR,PAN HD	1
0011	J709152P1	FOAM	1
0013	K805085G1	ASM CASE	2
0014	L855103P1	COVER	1
A001	M905975G3	COMPONENT BD PW	1
D001	A700028P1	DIO,SI,SIG	1
D002	A700028P1	DIO,SI,SIG	1
D003	A700028P1	DIO,SI,SIG	1
D004	A700028P1	DIO,SI,SIG	1
J001	J708925P1	CONN PT, PIN	1
J002	J708925P1	CONN PT, PIN	1
J003	J708925P1	CONN PT, PIN	1
J004	J708100P2	TERM, SPADE	1
J005	J708100P2	TERM, SPADE	1
J006	J708925P1	CONN PT, PIN	1
J007	J708925P1	CONN PT, PIN	1
J008	J708925P1	CONN PT, PIN	1
J009	J708925P1	CONN PT, PIN	1
J010	J708925P1	CONN PT, PIN	1
J011	J708925P1	CONN PT, PIN	1
J012	J708925P1	CONN PT, PIN	1
J013	J708925P1	CONN PT, PIN	1
J014	J708925P1	CONN PT, PIN	1
J015	J708925P1	CONN PT, PIN	1
W001	A700133P17	WIRE 0.500 DIA	1
W002	A700133P17	WIRE 0.500 DIA	1
0002	M905976P1R1	BD PW	1

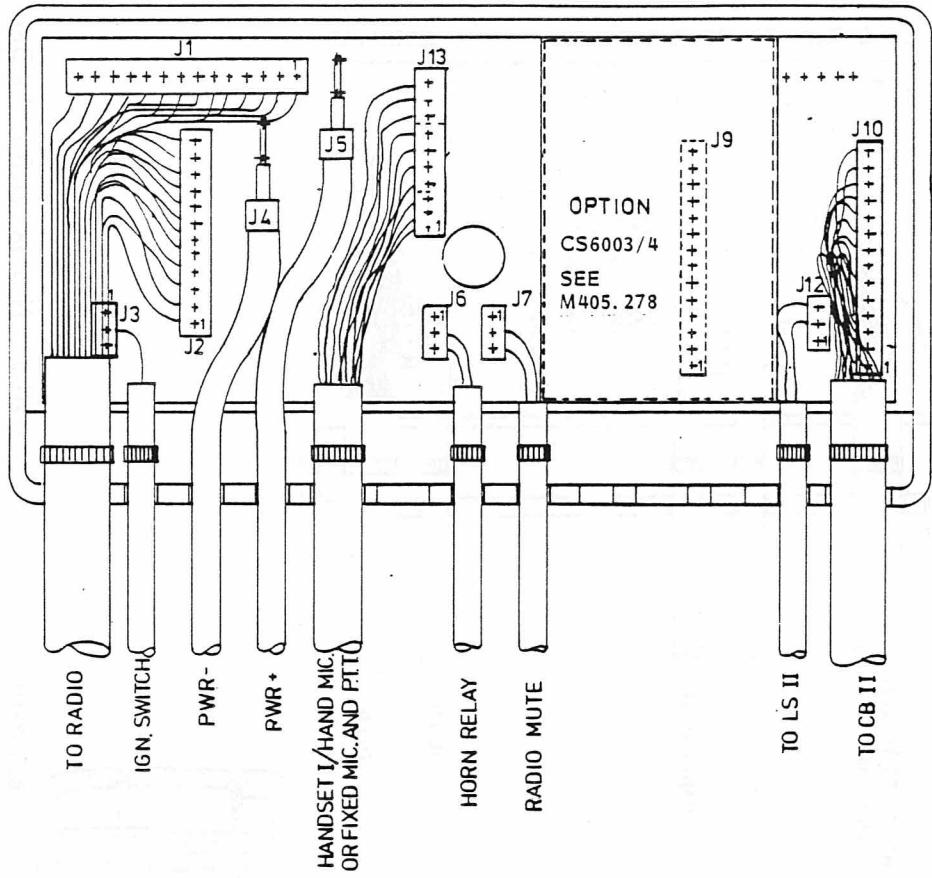
Pos.	Code No.	Description	Qty.
D001	A700028P1	DIO,SI,SIG	1
D002	A700028P1	DIO,SI,SIG	1
D003	A700028P1	DIO,SI,SIG	1
D004	A700028P1	DIO,SI,SIG	1
J001	J708925P1	CONN PT, PIN	1
J002	J708925P1	CONN PT, PIN	1
J003	J708925P1	CONN PT, PIN	1
J004	J708100P2	TERM, SPADE	1
J005	J708100P2	TERM, SPADE	1
J006	J708925P1	CONN PT, PIN	1
J007	J708925P1	CONN PT, PIN	1
J008	J708925P1	CONN PT, PIN	1
J009	J708925P1	CONN PT, PIN	1
J010	J708925P1	CONN PT, PIN	1
J011	J708925P1	CONN PT, PIN	1
J012	J708925P1	CONN PT, PIN	1
J013	J708925P1	CONN PT, PIN	1
J014	J708925P1	CONN PT, PIN	1
J015	J708925P1	CONN PT, PIN	1
W001	A700133P17	WIRE 0.500 DIA	1
W002	A700133P17	WIRE 0.500 DIA	1
0002	M905976P1R1	BD PW	1

Pos.	Code No.	Description	Qty.
A001	M905975G4	COMPONENT BD PW	1
0003	K805073P1	GASKET	2
0004	A701507P612	SCR,PAN HD	2
0005	J706212P203	SCR,PAN HD Ø-4.0X 7.9	2
0006	J706285P1	LOCKING RING	2
0007	J706307P70	NAME PLATE JB6002	1
0010	A700031P635	SCR,PAN HD M-4.0X35.0	1
0011	J709152P1	FOAM	1
0013	K805085G1	ASM CASE	2
0014	L855103P1	COVER	1
A001	M905975G4	COMPONENT BD PW	1
D001	A700028P1	DIO,SI,SIG	1
D002	A700028P1	DIO,SI,SIG	1
J001	J708925P1	CONN PT, PIN	1
J002	J708925P1	CONN PT, PIN	1
J003	J708925P1	CONN PT, PIN	1
J004	J708100P2	TERM, SPADE	1
J005	J708100P2	TERM, SPADE	1
J006	J708925P1	CONN PT, PIN	1
J007	J708925P1	CONN PT, PIN	1
J009	J708925P6	CONN PT, PIN	1
J010	J708925P1	CONN PT, PIN	1
J012	J708925P1	CONN PT, PIN	1
J013	J708925P1	CONN PT, PIN	1
W001	A700133P17	WIRE 0.500 DIA	1
0002	M905976P1R1	BD PW	1

Pos.	Code No.	Description	Qty.
A001	M905975G4	COMPONENT BD PW	1
0003	K805073P1	GASKET	2
0004	A701507P612	SCR,PAN HD	2
0005	J706212P203	SCR,PAN HD Ø-4.0X 7.9	2
0006	J706285P1	LOCKING RING	2
0007	J706307P70	NAME PLATE JB6002	1
0010	A700031P635	SCR,PAN HD M-4.0X35.0	1
0011	J709152P1	FOAM	1
0013	K805085G1	ASM CASE	2
0014	L855103P1	COVER	1

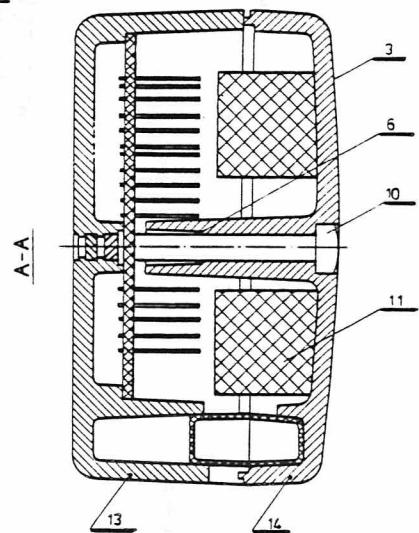


Stormo

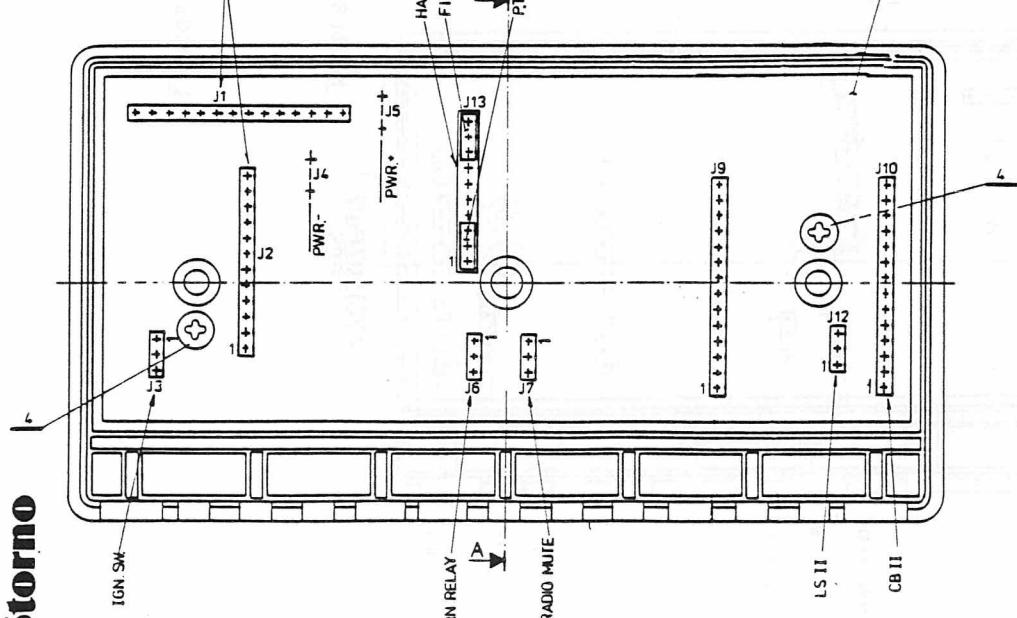


JUNCTION BOX JB6002 ASM
L855768G2

M405.277



Stormo



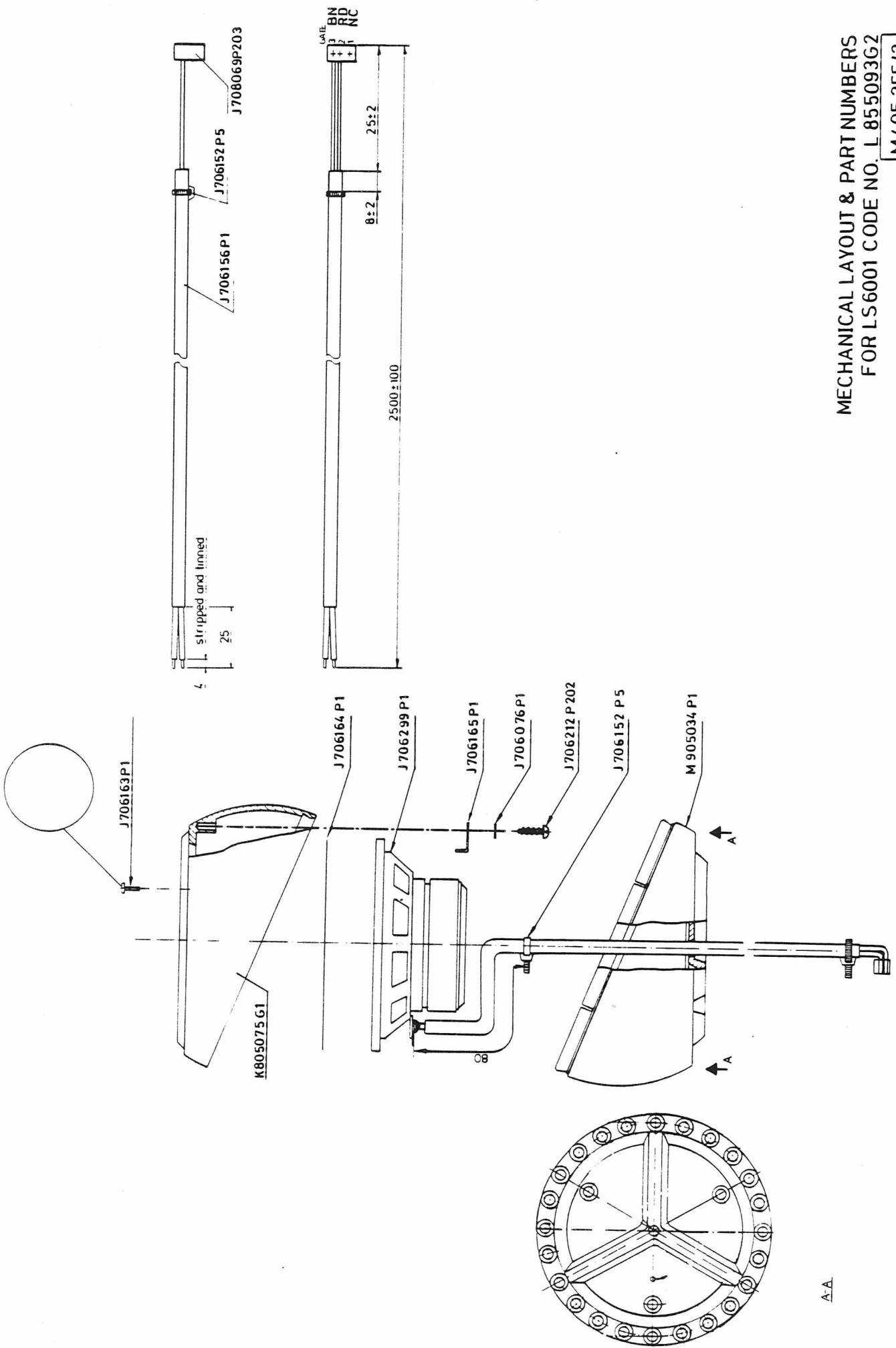
CHAPTER 4

LOUDSPEAKERS

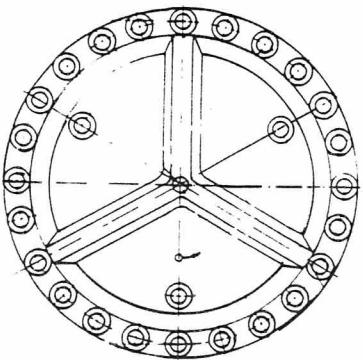
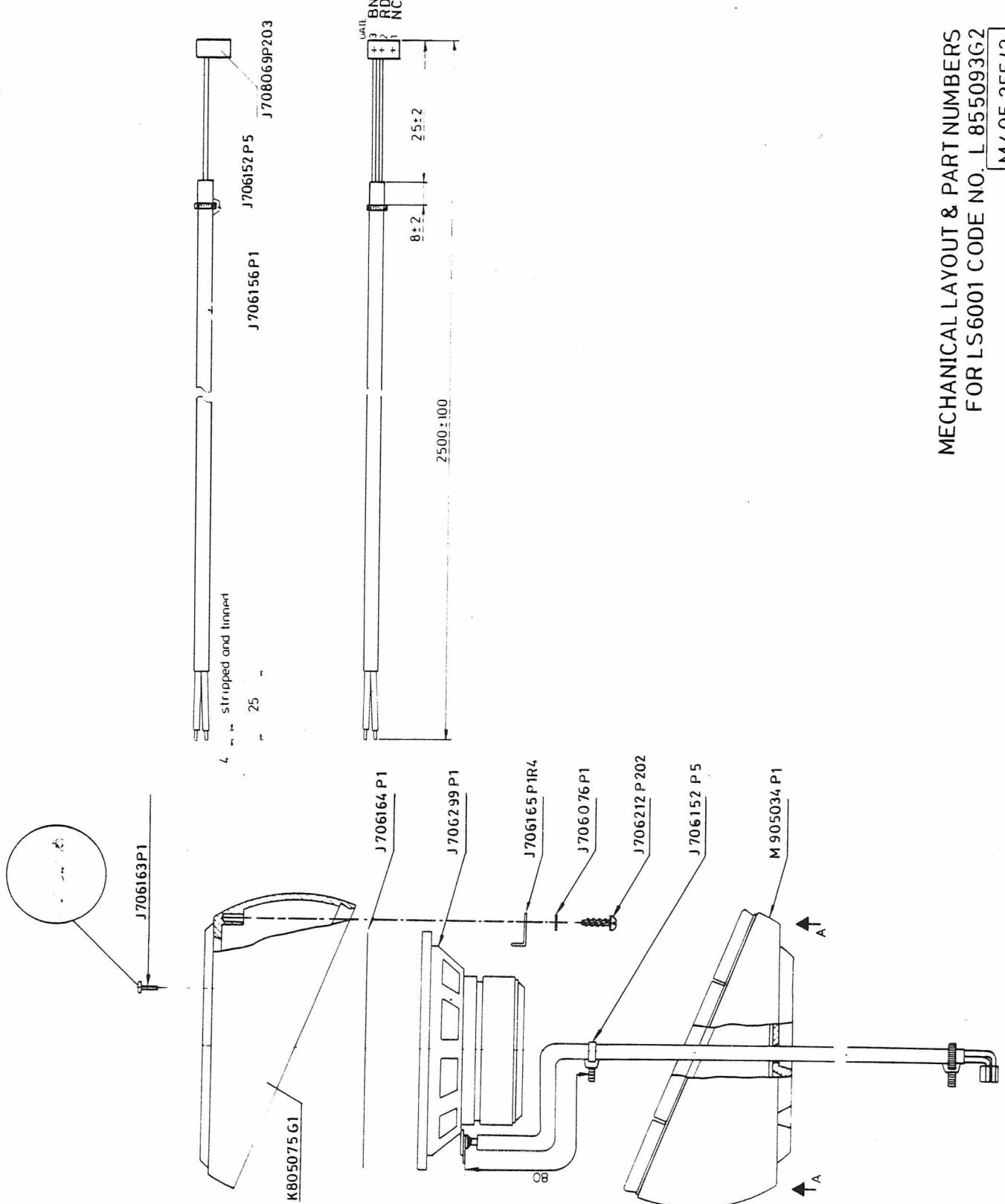
LOUDSPEAKERS LS600X :

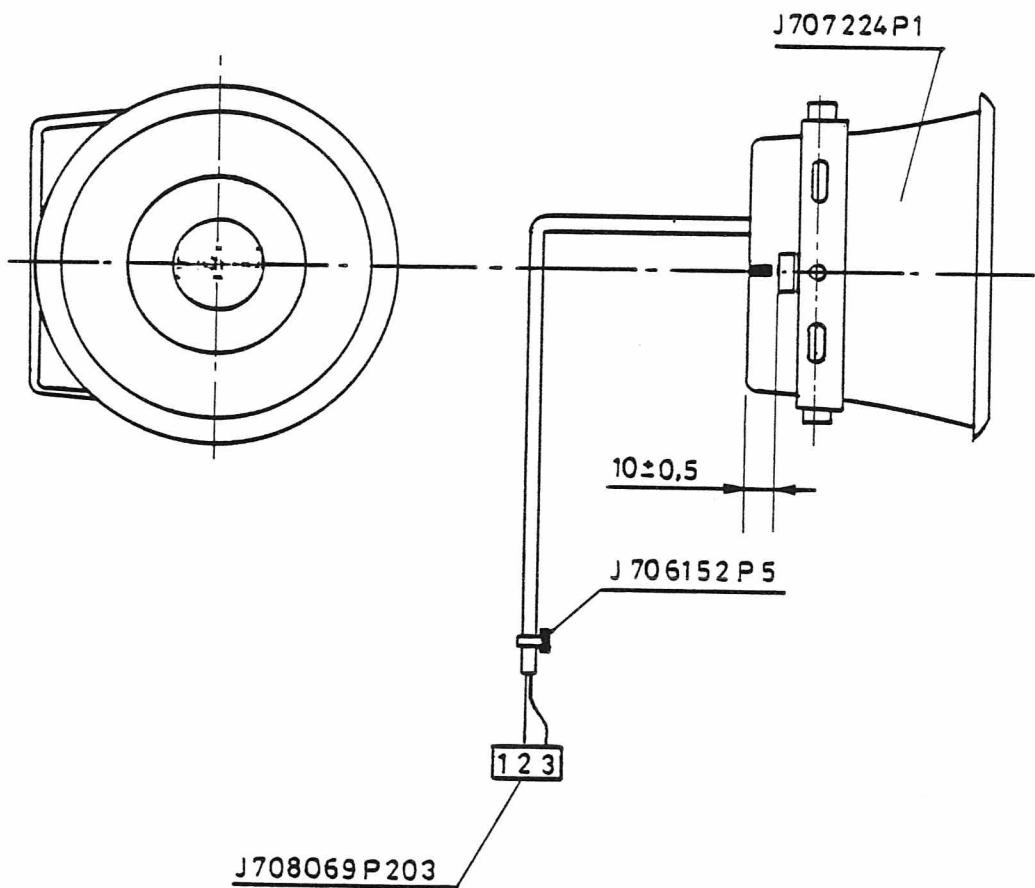
- LS6001
- LS6002

MECHANICAL LAYOUT & PART NUMBERS
FOR LS6001 CODE NO. L 855093G2
M405.255/2



MECHANICAL LAYOUT & PART NUMBERS
FOR LS6001 CODE NO. L 855093G2
M405.255/3





LOUDSPEAKER ASM. LS6002
J708821G1
M405. 238/2

CHAPTER 5

MICROPHONES

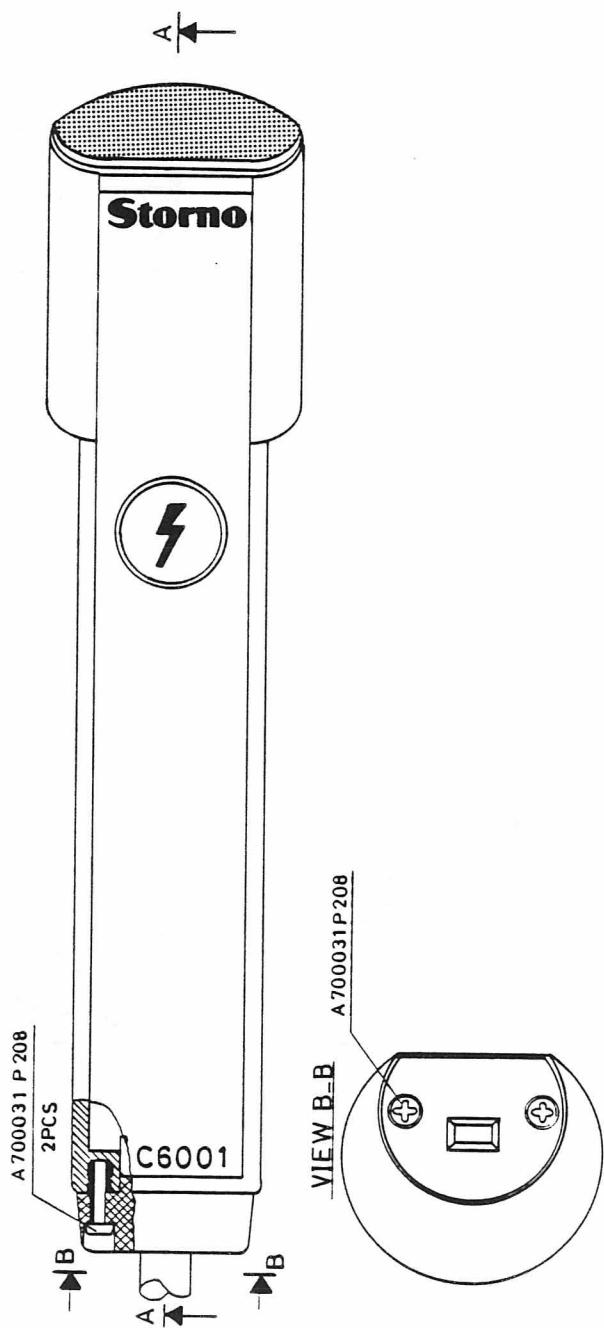
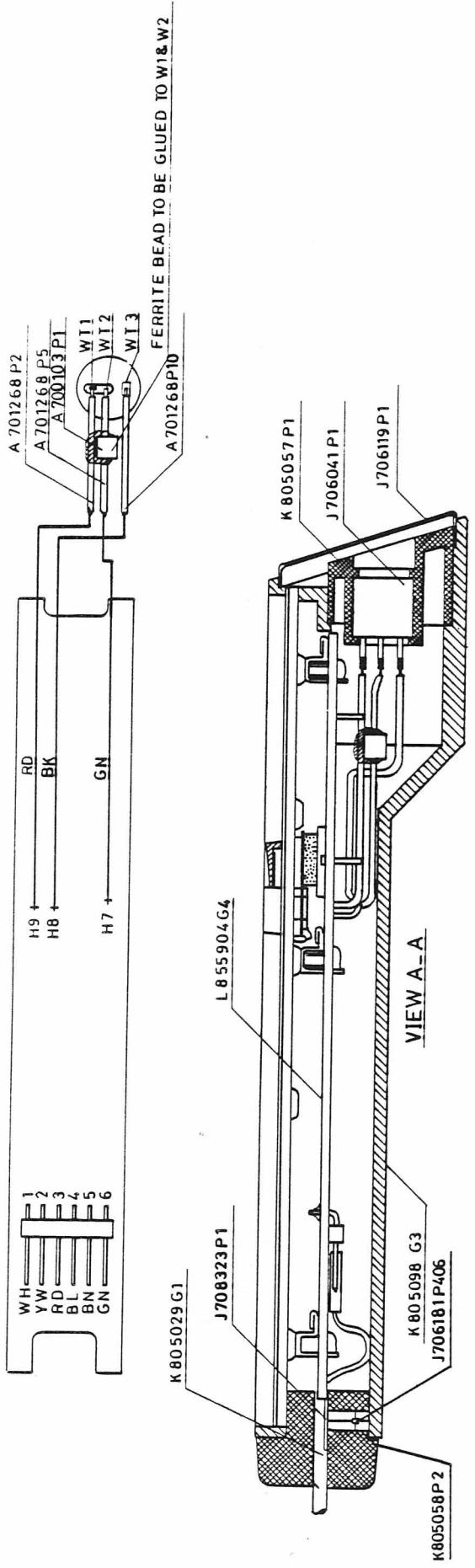
MICROPHONES MC600X :

- MC6001/MC6002
- MC6004/MC6005

• КОМПЛЕКСНЫЕ
БИОЛОГИЧЕСКИЕ
СИСТЕМЫ

Storno

Storno

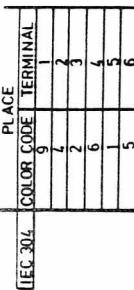


MECHANICAL LAYOUT & PART NUMBER
FOR MC6001 CODE NO. L 855903G4

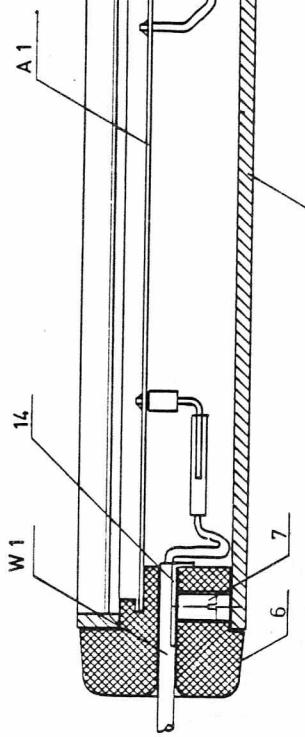
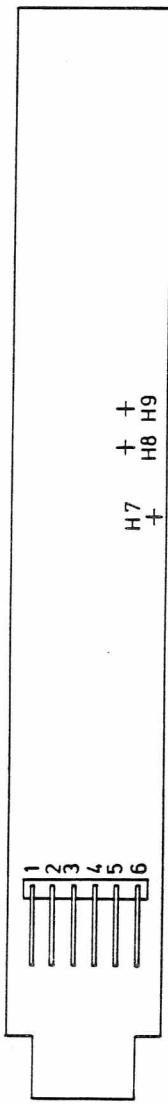
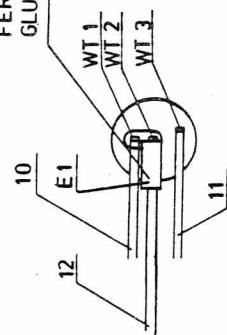
M405.27312

Storno

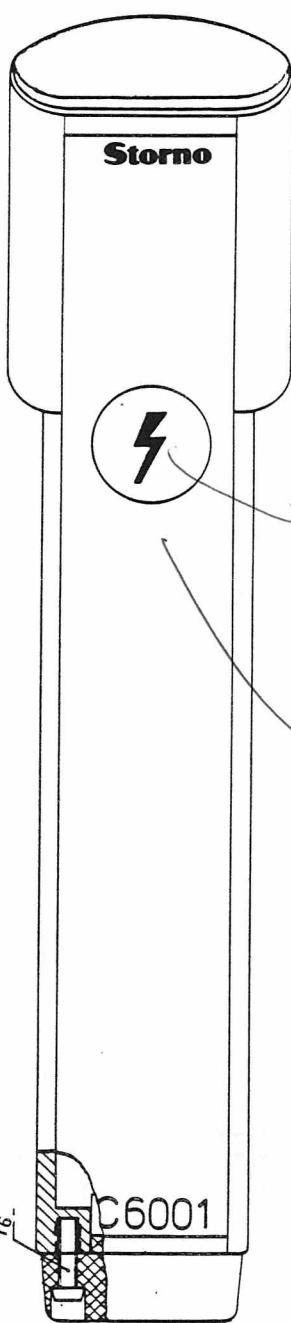
PLACE	IEC 304	COLOR CODE	TERMINAL	SOLDER
9	1	2	H 9	WT 1
4	2	3	H 8	WT 3
5	3	4	H 7	WT 2
6	4	5	H 7	WT 2
1	5	6	H 9	WT 1
5	6			



GLUE: 19A701648P4.0R 19J706919P1

FERRITE BEAD TO BE
GLUED TO W1 AND W2

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

NETTING TO BE
GLUED WITH 19J706660 P2

SEE PART LIST X404.219

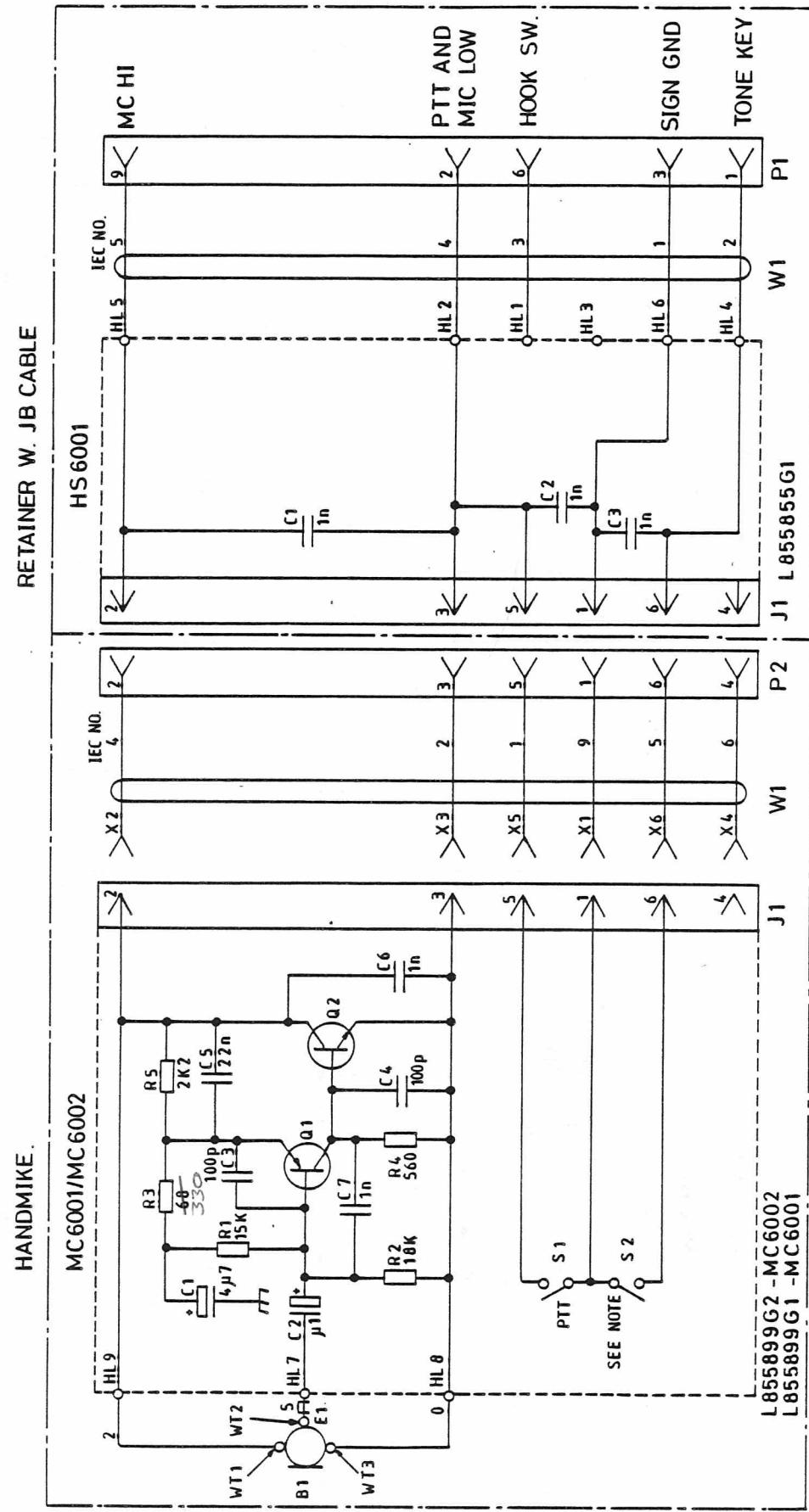
MECHANICAL LAYOUT & PART NUMBER
FOR MC6001 CODE NO. L855903G4

M405. 273

S 4 h 6 6 L K 80 50 60 P 40

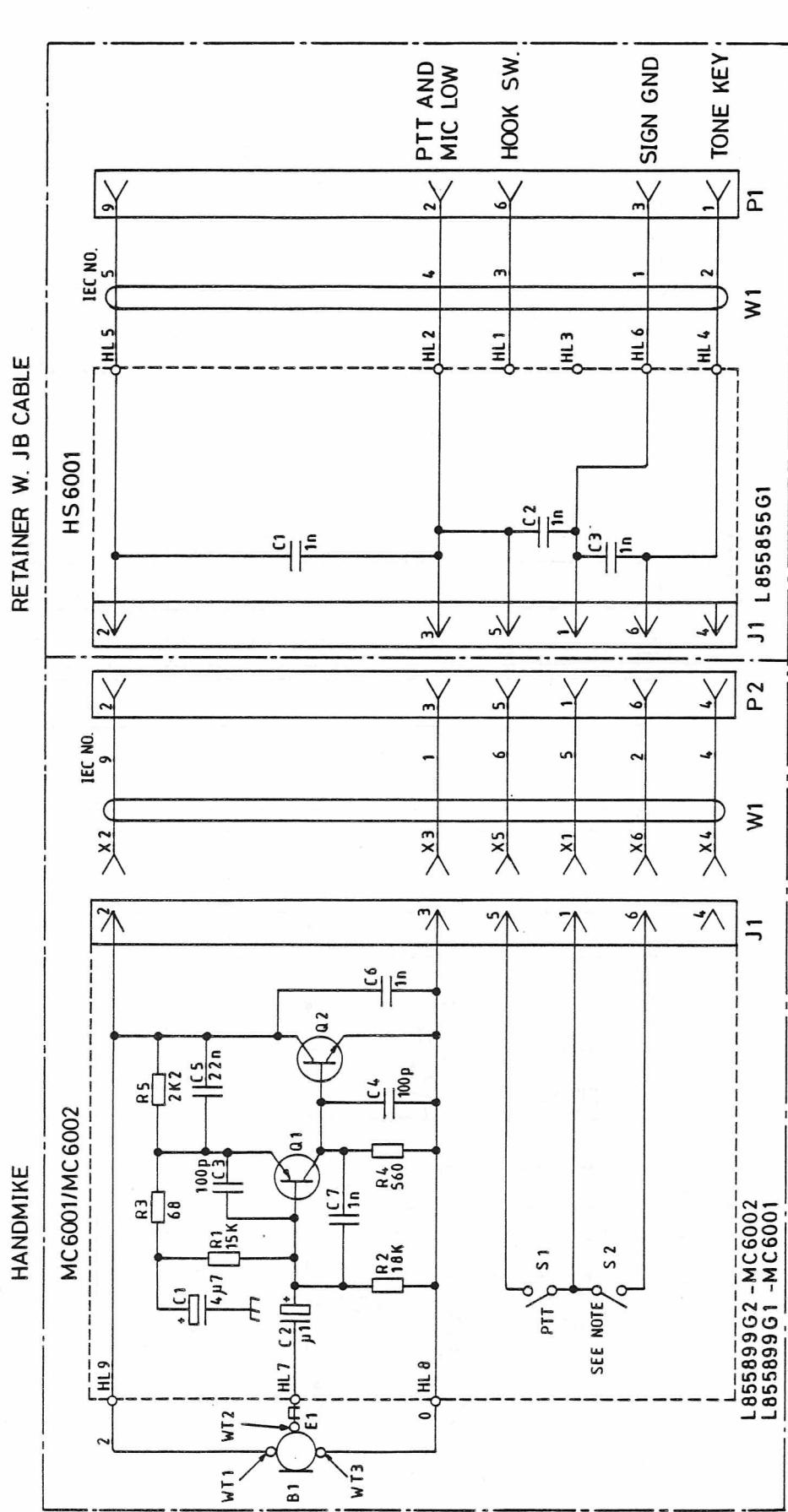
C 6 5 K 80 51 77 P 1

Storno



NOTE:
1. S2 IS ONLY MOUNTED IN HANDMICKE MC6002.
L85589962 - MC6002
L85589961 - MC6001

MICROPHONE WITH SUPPORT
MC6001/2 AND HS6001
D404.121/2



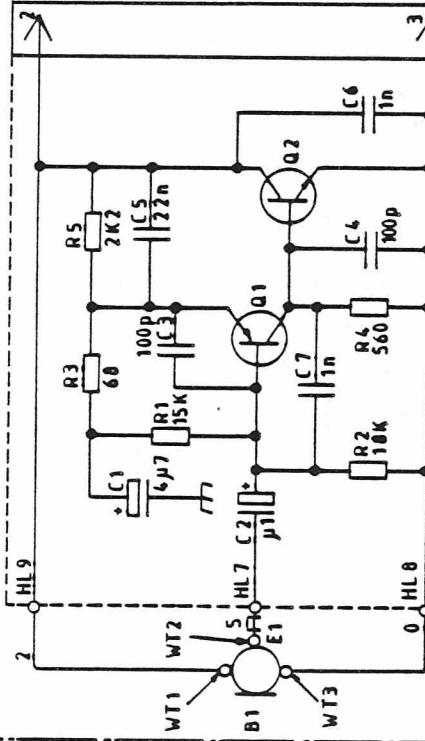
NOTE:
1. S2 IS ONLY MOUNTED IN HANDMICKE MC6002.

MICROPHONE WITH SUPPORT
MC6001/2 AND HS6001

D404.121

HANDMIKE.

MC 6001/MC 6002



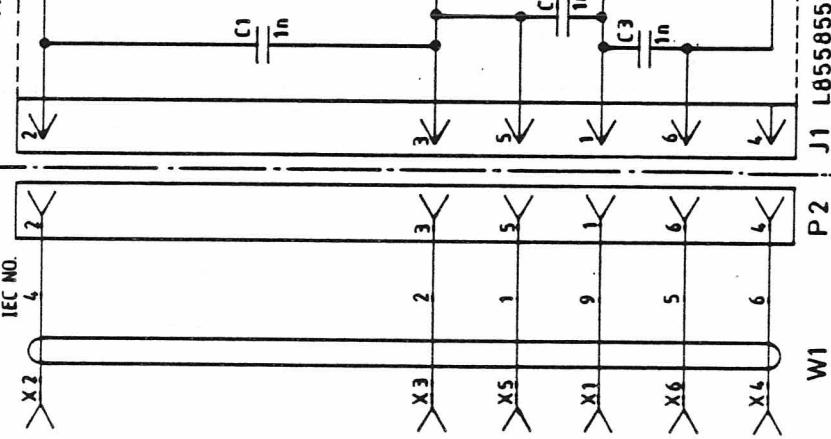
L855899G2 - MC 6002
L855899G1 - MC 6001

NOTE:

1. S2 IS ONLY MOUNTED IN HANDMIKE MC6002.
2. S1 IS SHOWN WITH MIKE IN RETAINER.(ON -HOOK)

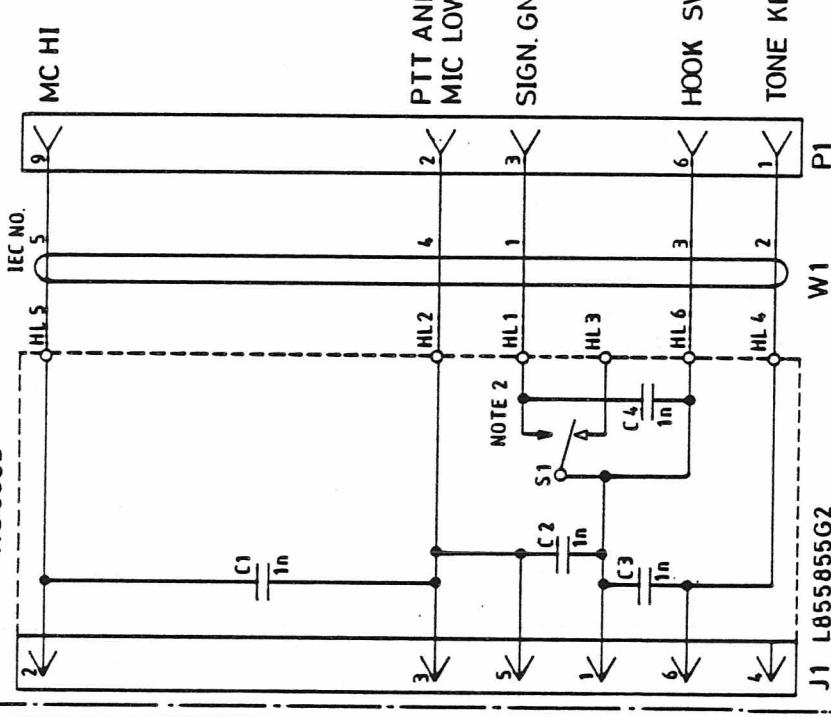
RETAINER W. JB CABLE

HS 6002



J1 L855899G2
P1 J1 L855899G1
W1 P2

MC HI



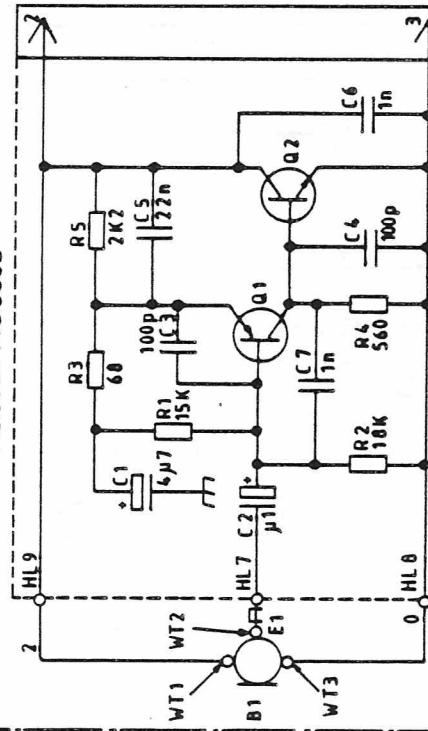
W1 P1

MICROPHONE WITH SUPPORT
MC6001/2 AND HS6002

D404.122/2

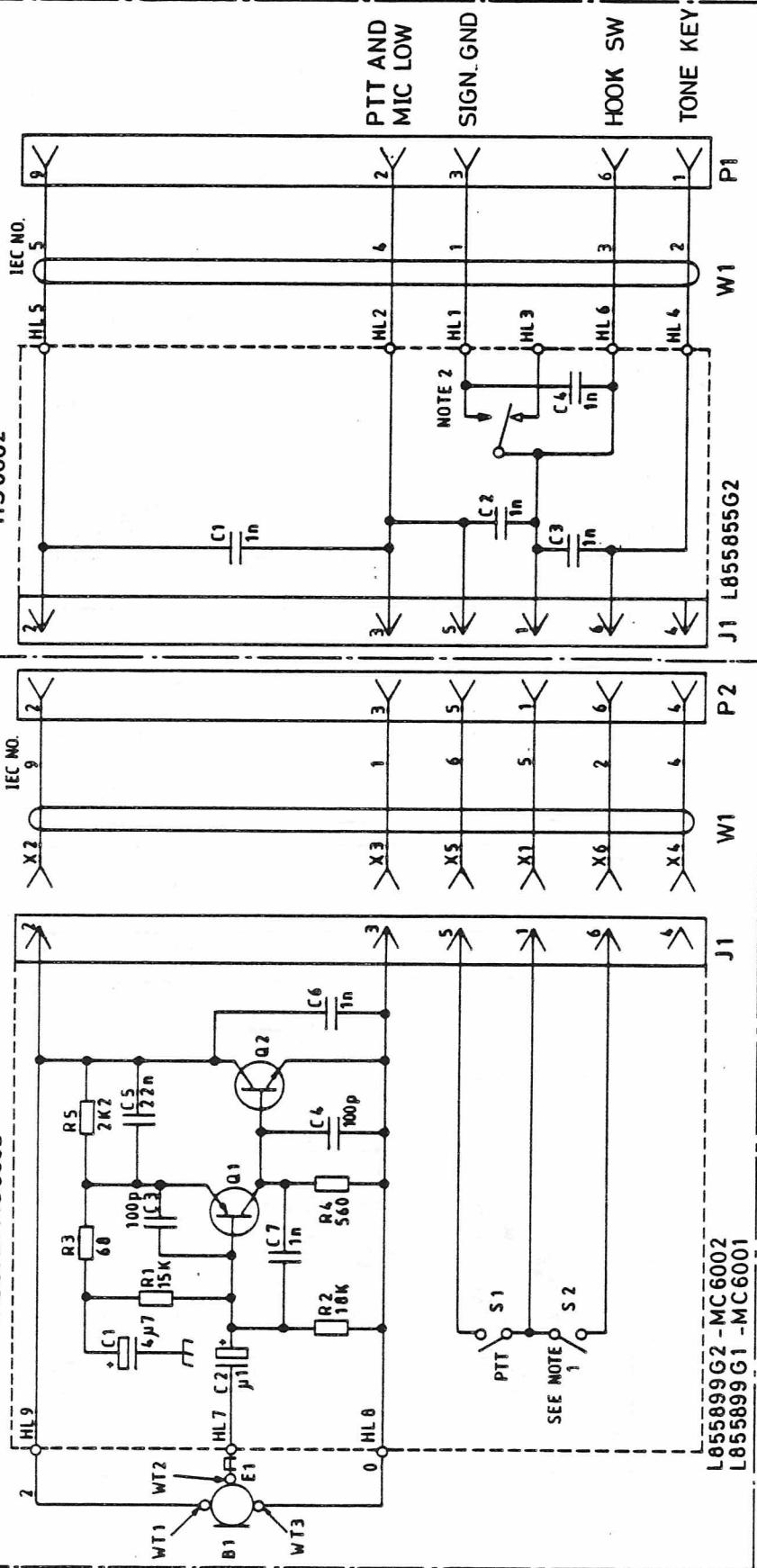
HANDMIKE

MC 6001/MC 6002



RETAINER W. JB CABLE

HS 6002



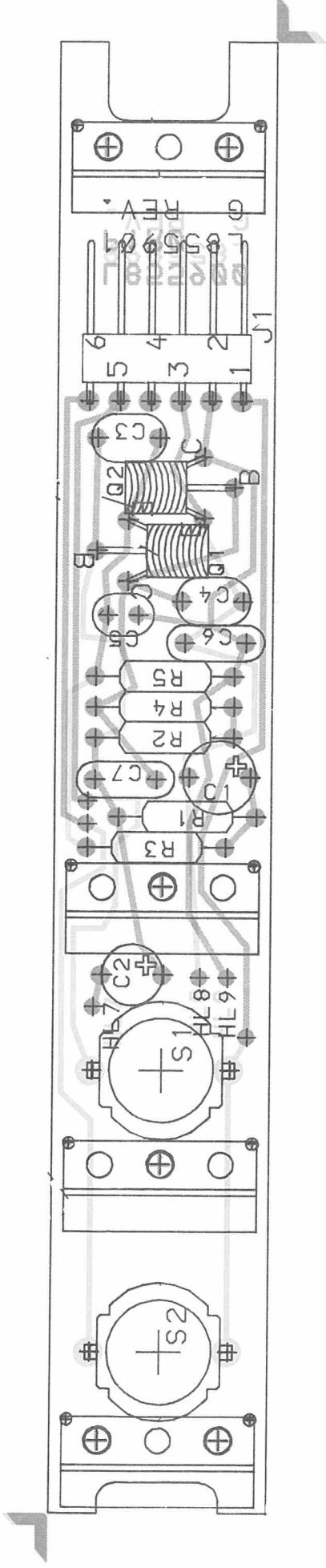
NOTE:

1. S2 IS ONLY MOUNTED IN HANDMIKE MC6002.
2. S1 IS SHOWN WITH MIKE IN RETAINER.(ON -HOOK)

MICROPHONE WITH SUPPORT
MC6001/2 AND HS6002

D404.122

Storno



CODE NO. L855899G2-MC6002

CODE NO. L855899G1-MC6001

MICROPHONE MC6001 AND MC6002
COMPONENT LAYOUT

D404. 332

ITEM NUMBER	DESCRIPTION
L855903G4	MC 6001
L855904G4	SUB ASM : CHASSIS ASM F. MC 6001
L855899G1	SUB-SUB ASM : CPNT BD, F.MC901 / MC600

PARTS LIST :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	L855904G4	CHASSIS ASM, F. MC 6001	1 (SEE BELOW)
B001	J706041P1	MICROPH. CARTRIDGE E M 60	1
E001	A700103P1	FERR CORE	1
W001	K805029G1	CABLE ASM, COILED CORD-	1
0003	K805098G3	HOUSING ASM.,F.MC901/MC600X	1
0004	K805057P1	HOLDER, RUBBER-	1
0005	J706119P1	SCREEN	1
0006	K805058P2	CLAMP, STRAIN RLF-	1
0007	J706181P406	SCREW M4X6 NYLON	1
0010	A701268P2	WIRE, "RED"	0,1 M
0011	A701268P10	WIRE, "BLACK"	0,1 M
0012	A701268P5	WIRE, "GREEN"	0,1 M
0016	A700031P208	SCREW PAN HD M-2.0 X 8.0MM	2
0019	J708323P1	PROTECTOR	1
/-----/			
A001 :	L855904G4 :	CHASSIS ASM F. MC 6001 :	
A001	L855899G1	CPNT BD PW, F.MC 901/MC6001	1 (SEE BELOW)
0003	K805177P1	CAP, BUTTON- "GREEN"	1
0004	L855184P1	BUTTON, 'BLACK'	1
0006	J706120P1	TEXTPLATE	1
0013	J709467G1	CHASSIS, COATED	1
0020	A700031P206	SCREW PAN HD M-2.0 X 6.0MM	5
0021	J709470P1	PLATE	1
0022	J709472P1	FOAM ACTUATOR	1
0023	J709471P4	NAMEPLATE, 'MC 6001'	1
/-----/			
A001 :	L855899G1 :	CPNT BD. PW F. MC 901 / MC 6001 :	
C001	A701534P6	CAP TA SOL 4U7 20% 35V	1
C002	A701534P1	CAP TA SOL 0U1 20% 35V	1
C003	A700233P1	CAP CER CL2 100P 20% 50V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
C004	A700233P1	CAP CER CL2 100P 20% 50V	1
C005	A700121P3	CAP CER 22N 20% 50V	1
C006	A700233P7	CAP CER CL2 1N0 20% 50V	1
C007	A700233P7	CAP CER CL2 1N0 20% 50V	1
J001	A700072P226	CONN PWB MALE 06 CKT	1
Q001	A700020P1	TSTR PNP SI BC558A/B	1
Q002	A700017P1	TSTR NPN SI BC548A/B	1
R001	A700019P51	RES DEPC 15K 5% 1/4W	1
R002	A700019P52	RES DEPC 18K 5% 1/4W	1
R003	A700019P23	RES DEPC 68R 5% 1/4W	1
R004	A700019P34	RES DEPC 560R 5% 1/4W	1
R005	A700019P41	RES DEPC 2K2 5% 1/4W	1
S001	J709484P1	SWITCH, MICRO-	1
0002	L855900P1R0	BOARD PW, REVISION NO.: 0	1
0005	J709469G1	SPACER, COATED	3

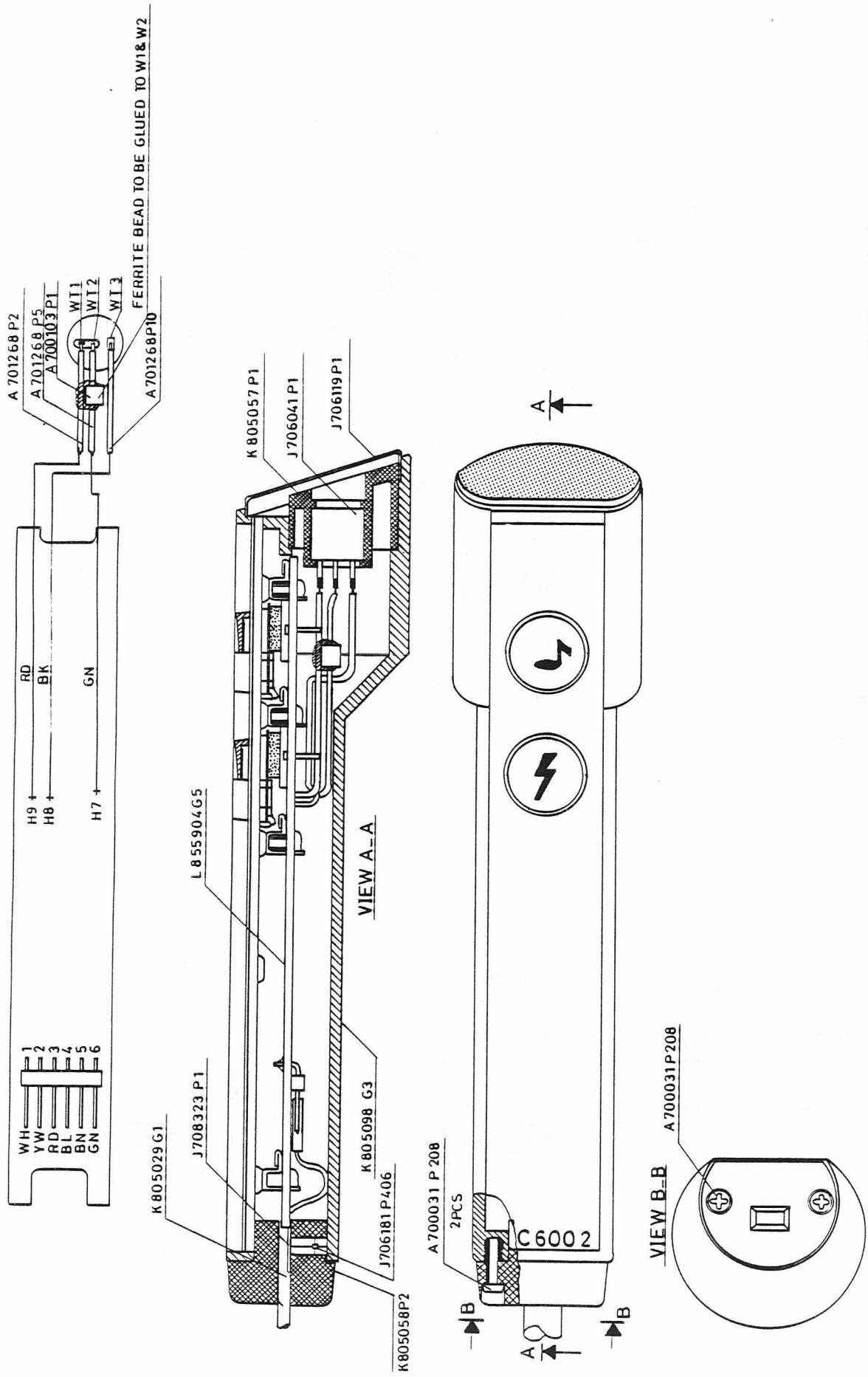
ITEM NUMBER	DESCRIPTION
L855903G5	MC 6002
L855904G5	SUB ASM : CHASSIS ASM F. MC 6002
L855899G2	SUB-SUB ASM : CPNT BD, F.MC902 / MC6002

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	L855904G5	CHASSIS ASM, F. MC 6002	1 (SEE BELOW)
B001	J706041P1	MICROPH. CARTRIDGE E M 60	1
E001	A700103P1	FERR CORE	1
W001	K805029G1	CABLE ASM, COILED CORD-	1
0003	K805098G3	HOUSING ASM., F.MC901/MC600X	1
0004	K805057P1	HOLDER, RUBBER-	1
0005	J706119P1	SCREEN	1
0006	K805058P2	CLAMP, STRAIN RLF-	1
0007	J706181P406	SCREW M4X6 NYLON	1
0010	A701268P2	WIRE, "RED"	0,1 M
0011	A701268P10	WIRE, "BLACK"	0,1 M
0012	A701268P5	WIRE, "GREEN"	0,1 M
0016	A700031P208	SCREW PAN HD M-2.0 X 8.0MM	2
0019	J708323P1	PROTECTOR	1
-----/-----/-----			
A001 :	L855904G5 :	CHASSIS ASM F. MC 6002 :	
A001	L855899G2	CPNT BD PW, F.MC 902/MC6002	1 (SEE BELOW)
0003	K805177P1	CAP, BUTTON- "GREEN"	2
0004	L855184P1	BUTTON, 'BLACK'	2
0006	J706120P1	TEXTPLATE	1
0007	J706120P1	TEXTPLATE	1
0013	J709467G1	CHASSIS, COATED	1
0020	A700031P206	SCREW PAN HD M-2.0 X 6.0MM	6
0021	J709470P1	PLATE	2
0022	J709472P1	FOAM ACTUATOR	2
0023	J709471P5	NAMEPLATE, 'MC 6002'	1
-----/-----/-----			
A001 :	L855899G2 :	CPNT BD. PW F. MC 902 / MC 6002 :	
C001	A701534P6	CAP TA SOL 4U7 20% 35V	1
C002	A701534P1	CAP TA SOL 0U1 20% 35V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
C003	A700233P1	CAP CER CL2 100P 20% 50V	1
C004	A700233P1	CAP CER CL2 100P 20% 50V	1
C005	A700121P3	CAP CER 22N 20% 50V	1
C006	A700233P7	CAP CER CL2 1N0 20% 50V	1
C007	A700233P7	CAP CER CL2 1N0 20% 50V	1
J001	A700072P226	CONN PWB MALE 06 CKT	1
Q001	A700020P1	TSTR PNP SI BC558A/B	1
Q002	A700017P1	TSTR NPN SI BC548A/B	1
R001	A700019P51	RES DEPC 15K 5% 1/4W	1
R002	A700019P52	RES DEPC 18K 5% 1/4W	1
R003	A700019P23	RES DEPC 68R 5% 1/4W	1
R004	A700019P34	RES DEPC 560R 5% 1/4W	1
R005	A700019P41	RES DEPC 2K2 5% 1/4W	1
S001	J709484P1	SWITCH, MICRO-	1
S002	J709484P1	SWITCH, MICRO-	1
0002	L855900P1R0	BOARD PW, REVISION NO.: 0	1
0005	J709469G1	SPACER, COATED	4

MECHANICAL LAYOUT & PART NUMBER
 FOR MC6002 CODE NO. L 855903G5
M405.274/2



Storno

PLACE		SOLDER	
IEC 304	COLOR CODE	TERMINAL	HOLE NO.
9	2	1	H 9
6	0	2	H 8
2	3	3	H 7
6	4	4	H 6
1	5	5	H 5
5	6	6	H 4

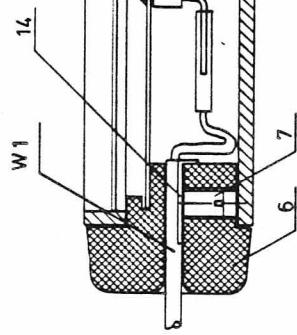
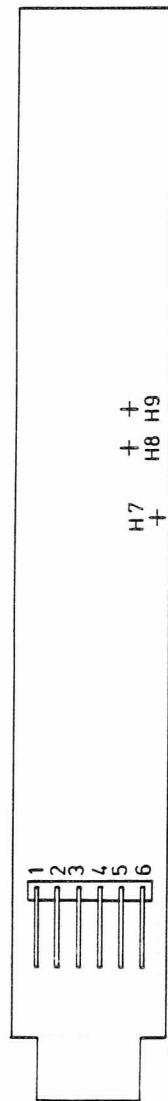
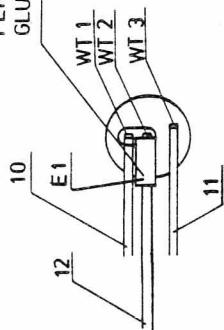


IEC 304	COLOR CODE	TERMINAL	HOLE NO.
9	2	1	H 9
6	0	2	H 8
2	3	3	H 7
6	4	4	H 6
1	5	5	H 5
5	6	6	H 4

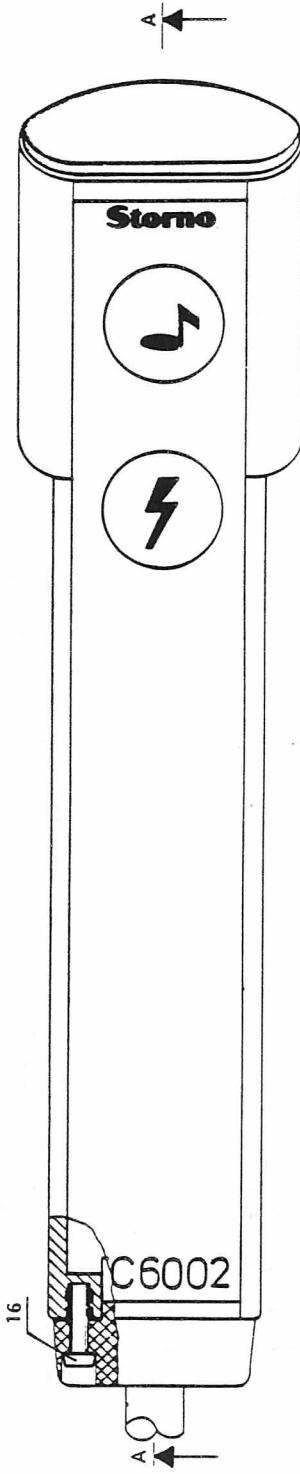
GLUE: 19A701648P4 OR 19J706919P1

FERRITE BEAD TO BE
GLUED TO W1 AND W2

COLOR CODE	
IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



VIEW A-A

NETTING TO BE
GLUED WITH 19J706660 P2MECHANICAL LAYOUT & PART NUMBER
FOR MC6002 CODE NO. L855903G5

M405. 274

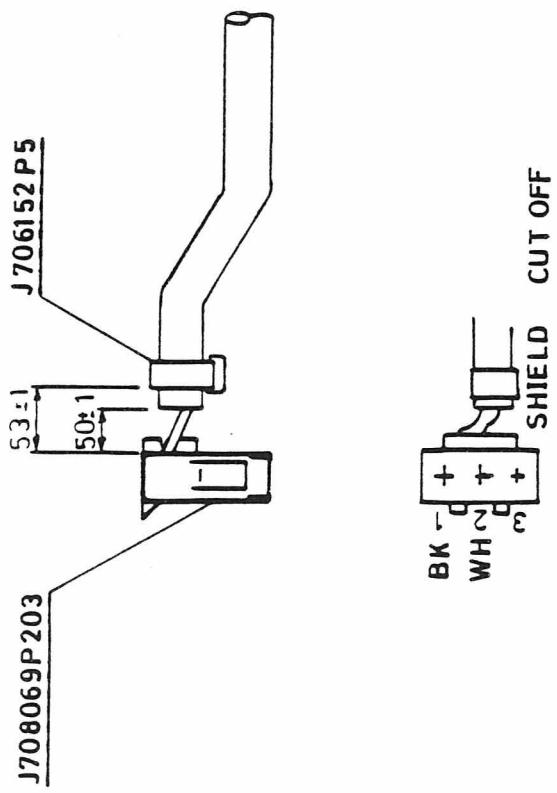
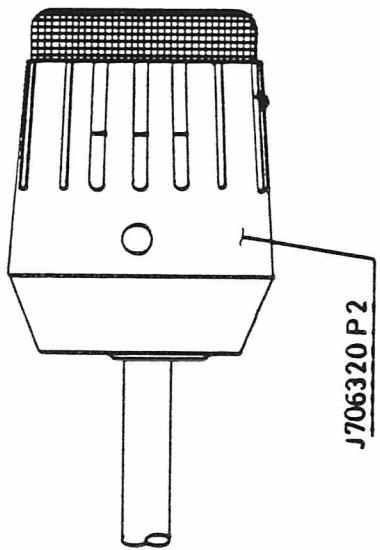
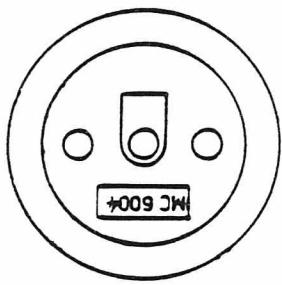
DATE: 3/11/1987

Pos	Code No	Description	Qt
C001	A701534P6	CAP TA SOL	4U7
C002	A701534P1	CAP TA SOL	0U1
C003	A700233P1	CAP CER CL2	100P
C004	A700233P1	CAP CER CL2	100P
C005	A700121P3	CAP CER 22N	20% 50V
C006	A700233P7	CAP CER CL2	1N
C007	A700233P7	CAP CER CL2	1N
J001	A700072P226	CONN PWB MALE06-CKT	1
Q001	A700020P1	TSTR PNP SI	BC 558A/B
Q002	A700017P1	TSTR NPN SI	BC 548A/B
R001	A700019P51	RES DEPC 1/4W	15K 5%
R002	A700019P52	RES DEPC 1/4W	18K 5%
R003	A700019P31	RES DEPC 1/4W	330R 5%
R004	A700019P34	RES DEPC 1/4W	560R 5%
R005	A700019P41	RES DEPC 1/4W	2K2 5%
S001	J709484P1	SWITCH MICRO	1
	L855900P1R0	BD PW	1

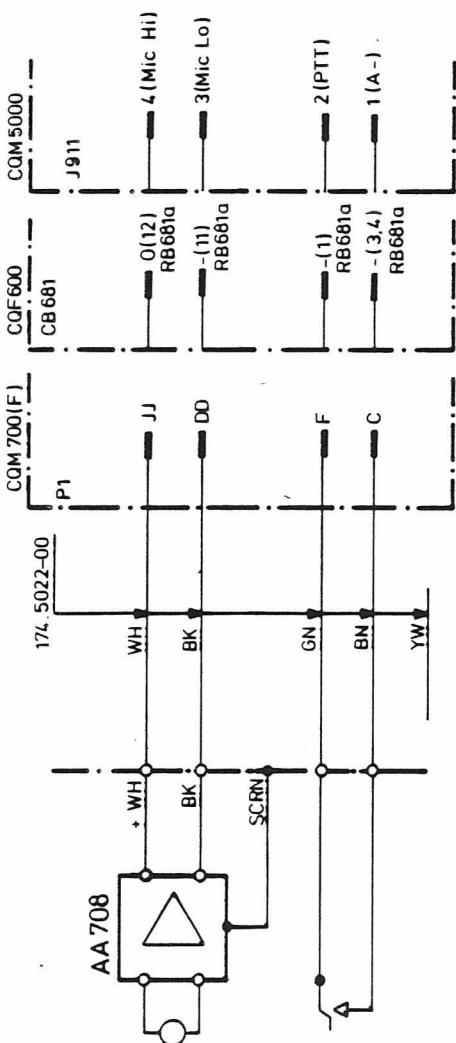
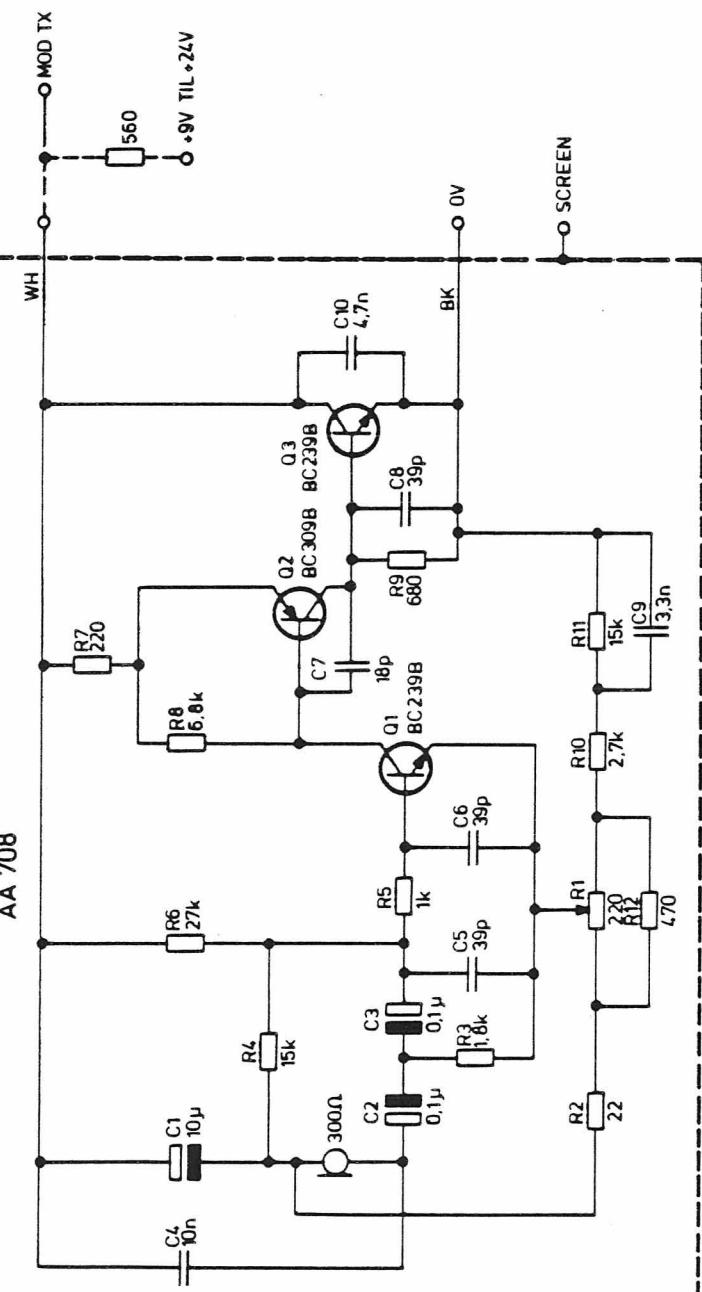
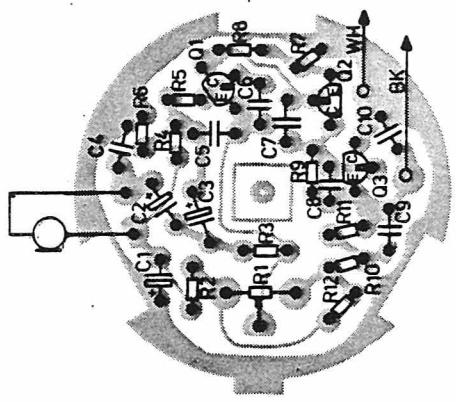
Pos	Code No	Description	Qt
A001	L855904G4	CHASSIS ASM MC6001	1
A001	L855904G5	CHASSIS ASM MC6002	1
A001	L855899G1	CPNT BD MC901/MC6001	1
A001	L855899G2	CPNT BD MC902/MC6002	1
A001	K805177P1	CAP GREEN	1
	L855184P1	BUTTON BLACK	1
	J706120P1	TEXTPLATE	3
	J709467G1	CHASSIS COATED	1
	A700031P206	SCR PAN HD	5
	J709470P1	PLATE	1
	J709472P1	FOAM ACTUATOR	1
	J709471P4	NAME PLATE MC 6001	1
	J709471P5	NAME PLATE MC 6002	1
	L855899G1	CPNT BD MC901/MC6001	1
	L855899G2	CPNT BD MC902/MC6002	1
C001	A701534P6	CAP TA SOL	4U7
C002	A701534P1	CAP TA SOL	0U1
C003	A700233P1	CAP CER CL2	100P
C004	A700233P1	CAP CER CL2	100P
C005	A700121P3	CAP CER 22N	20% 50V
C006	A700233P7	CAP CER CL2	1N
C007	A700233P7	CAP CER CL2	1N
J001	A700072P226	CONN PWB MALE06-CKT	1
Q001	A700020P1	TSTR PNP SI	BC 558A/B
Q002	A700017P1	TSTR NPN SI	BC 548A/B
R001	A700019P51	RES DEPC 1/4W	15K 5%
R002	A700019P52	RES DEPC 1/4W	18K 5%
R003	A700019P31	RES DEPC 1/4W	330R 5%
R004	A700019P34	RES DEPC 1/4W	560R 5%
R005	A700019P41	RES DEPC 1/4W	2K2 5%
S001	J709484P1	SWITCH MICRO	1
	L855900P1R0	BD PW	1

MICROPHONE ASSEMBLY MC6004
K805101G2

M405. 229/2



Storno



ITEM NUMBER	DESCRIPTION
K805101G2	MC 6004 ASM

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
P002	J708069P203	CONNECTOR FEM	1
0002	J706320P2	MC 704 A	1 (SEE BELOW)
0003	J706307P40	NAMEPLATE MC6004	1
0004	J706152P5	STRAP RET W BDL D19 NYL	1
<hr/>			
0002 :	J706320P2 :	MC 704 A , ASM.D :	
A001	10.4403-00	AA 708 , AUDIO AMPLIFIER	1 (SEE BELOW)
<hr/>			
A001 :	10.4403-00 :	AA 708 , AUDIO AMPLIFIER :	
C01	73.5109-00	CAP TA SOL 10U0 20% 16V	1
C02	73.5089-00	CAP TA SOL 0U1 20% 35V	1
C03	73.5089-00	CAP TA SOL 0U1 20% 35V	1
C04	74.5109-00	CAP CER PL 10N0 20V	1
C05	74.5187-00	CAP CER 39PF 10% 25V	1
C06	74.5187-00	CAP CER 39PF 10% 25V	1
C07	74.5138-00	CAP CER 18PF 5% 125V	1
C08	74.5187-00	CAP CER 39PF 10% 25V	1
C09	76.5060-00	CAP CER 3N3 50V	1
C10	74.5108-00	CAP CER PL 4N7 20V	1
Q01	99.5201-00	TSTR SI NPN BC239B/C;BC549B/C	1
Q02	99.5115-00	TSTR SI PNP BC309B/C;BC559B/C	1
Q03	99.5201-00	TSTR SI NPN BC239B/C;BC549B/C	1
R01	86.5076-00	RES VAR LIN 220R 20% 0,05W	1
R02	A700019P17	RES DEPC 22R 5% 1/4W	1
R03	A700019P40	RES DEPC 1K8 5% 1/4W	1
R04	A700019P51	RES DEPC 15K 5% 1/4W	1
R05	A700019P37	RES DEPC 1K0 5% 1/4W	1
R06	A700019P54	RES DEPC 27K 5% 1/4W	1
R07	A700019P29	RES DEPC 220R 5% 1/4W	1
R08	A700019P47	RES DEPC 6K8 5% 1/4W	1
R09	A700019P35	RES DEPC 680R 5% 1/4W	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
R10	A700019P42	RES DEPC 2K7 5% 1/4W	1
R11	A700019P51	RES DEPC 15K 5% 1/4W	1
R12	A700019P33	RES DEPC 470R 5% 1/4W	1
003	54.0803-00	PC/SOLDERTERMINAL	1
004	186.5086-00	ELKOFLEX GL	0.10 M

18/6/'85
JEV

STORNO - DEPT. OF SERVICE CO-ORDINATION

X404.098

PARTS LIST FOR MICROPHONE WITH SUPPORT MC6001/2 AND HS6001/2/4

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
	L855903G4	MC6001					
	L855903G5	MC6002					
A001	L855899G1	CPNT BD MC6001					
A001	L855899G2	CPNT BD MC6002					
C001	A701534P6	CAP TA SOL 4U7 35V	1				
C002	A701534P1	CAP TA SOL OU1 35V	1				
C003	A700233P1	CAP CER CL2 100P 20%	1				
C004	A700233P1	CAP CER CL2 100P 20%	1				
C005	A700121P3	CAP CER 22N 20% 50V	1				
C006	A700233P7	CAP CER CL2 1N 20%	1				
C007	A700233P7	CAP CER CL2 1N 20%	1				
J001	A700072P226	CONN PWB MALE06-CKT	1				
Q001	A700020P1	TSTR PNP SI BC 558A/B	1				
Q002	A700017P1	TSTR NPN SI BC 548A/B	1				
R001	A700019P51	RES DEPC 1/4W 15K 5%	1				
R002	A700019P52	RES DEPC 1/4W 18K 5%	1				
R003	A700019P31	RES DEPC 1/4W 330R 5%	1				
R004	A700019P34	RES DEPC 1/4W 560R 5%	1				
R005	A700019P41	RES DEPC 1/4W 2K2 5%	1				
S001	J709484P1	SWITCH MICRO	1				
	L855900P1R0	BD PW	1				
		NON ELECTRONICAL PART					
	J709469G1	SPACER COATED	1				
	L855855G1	RETAINER HS6001					
	L855855G2	RETAINER HS6002					
	L855855G3	RETAINER HS6004					
A001	K805091G2	COMPONENT BD ASM	1				
C001	A700233P7	CAP CER CL2 1N 20%	1				
C002	A700233P7	CAP CER CL2 1N 20%	1				
C003	A700233P7	CAP CER CL2 1N 20%	1				
C004	A700233P7	CAP CER CL2 1N 20 G2/G3 ONLY	1				
J001	J706197P1	CONN PWB 6 POS 6 CONT	1				
S001	J706196P1	SW PUSH E63-20A G2/G3 ONLY	1				
W001	K805083G3	CABLE ASM G1/G2 ONLY	1				
W001	J711127P1R1	CABLE G3 ONLY	1				
	L855856P1R0	BD PW	1				
		NON ELECTRONICAL PARTS					
	J706152P5	STRAP RET W-BDL D-19	1				
	J706207P1	SPACER LONG	1				
	J706208P1	SPACER SHORT	1				

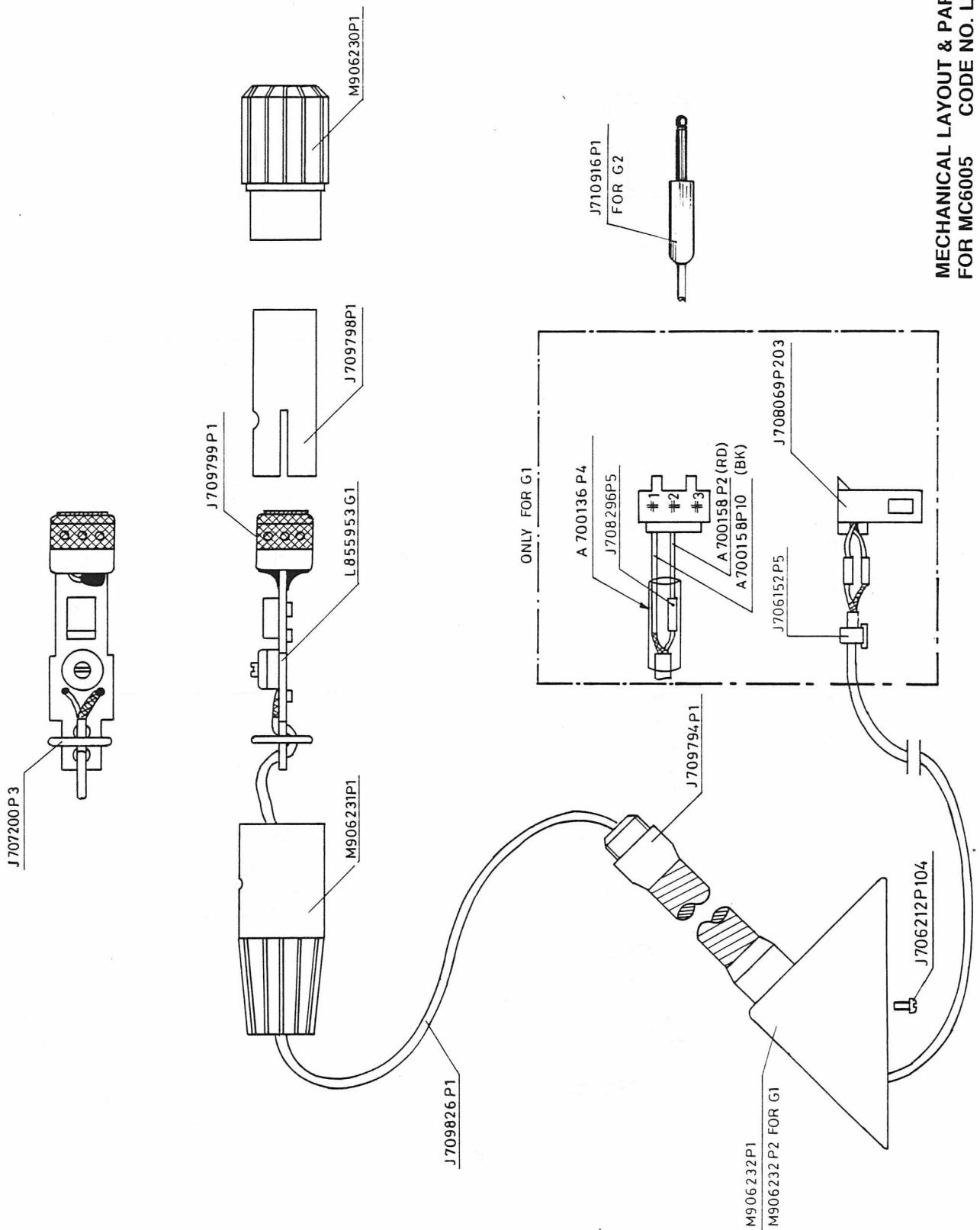
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Pos	Code No	Description	Qt
	L855903G4	MC6001	
	L855903G5	MC6002	
A001	L855899G1	CPNT BD MC6001	
A001	L855899G2	CPNT BD MC6002	
C001	A701534P6	CAP TA SOL 4U7 35V	1
C002	A701534P1	CAP TA SOL 0U1 35V	1
C003	A700233P1	CAP CER CL2 100P 20%	1
C004	A700233P1	CAP CER CL2 100P 20%	1
C005	A700121P3	CAP CER 22N 20% 50V	1
C006	A700233P7	CAP CER CL2 1N 20%	1
C007	A700233P7	CAP CER CL2 1N 20%	1
J001	A700072P226	CONN PWB MALE06-CKT	1
Q001	A700020P1	TSTR PNP SI BC 558A/B	1
Q002	A700017P1	TSTR NPN SI BC 548A/B	1
R001	A700019P51	RES DEPC 1/4W 15K 5%	1
R002	A700019P52	RES DEPC 1/4W 18K 5%	1
R003	A700019P31	RES DEPC 1/4W 330R 5%	1
R004	A700019P34	RES DEPC 1/4W 560R 5%	1
R005	A700019P41	RES DEPC 1/4W 2K2 5%	1
S001	J709484P1	SWITCH MICRO	1
	L855900P1R0	BD PW	1
	NON ELECTRONICAL PART		
	J709469G1	SPACER COATED	1
	L855855G1	RETAINER HS6001	
	L855855G2	RETAINER HS6002	
	L855855G3	RETAINER HS6004	
A001	K805091G2	COMPONENT BD ASM	1
C001	A700233P7	CAP CER CL2 1N 20%	1
C002	A700233P7	CAP CER CL2 1N 20%	1
C003	A700233P7	CAP CER CL2 1N 20%	1
C004	A700233P7	CAP CER CL2 1N 20 G2/3 ONLY	1
J001	J706197P1	CONN PWB 6 POS 6 CONT	1
S001	J706196P1	SW PUSH E63-20A G2/G3 ONLY	1
W001	K805083G3	CABLE ASM G1/G2 ONLY	1
W001	J711127P1	CABLE G3 ONLY	1
	L855856P1R0	BD PW	1
	NON ELECTRONICAL PARTS		
	J706152P5	STRAP RET W-BDL D-19	1
	J706207P1	SPACER LONG	1
	J706208P1	SPACER SHORT	1

Pos	Code No	Description	Qt

MECHANICAL PARTS LIST FOR MICROPHONE MC6005 : L855959G1/G2

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
A1	L855953G1	COMPONENT BD PW	1				
P2	J708069P203	CONN PWB FEM 03-CKT	G1				
W1	J709826P1	CABLE AF SHLD MICROPHONE	G1				
W2	A700158P10	WIRE AWG 22 BK	G1				
W3	A700158P2	WIRE AWG 22 RD	G1				
1	J708296P5	SLV INS ELEC D-1.5/0.15	G1				
2	J709798P1R1	COVER	1				
3	M906230P1	HOUSING FRONT	1				
4	M906231P1	HOUSING REAR	1				
5	A700136P4	SLV INS EL D-3.2X 0.51	G1				
6	J709794P1	MOUNT GOOSENECK	1				
7	M906232P1	FOOT	G1				
7	M906232P2	FOOT	G2				
8	J706152P5	STRAP RET W-BDL D-19	1				
9	J709799P1R2	FILTER	1				
10	J707200P3	PACKING D-5.3X2.4	1				
11	J706212P104	SCR PAN HD \-2.0X 9.5	1				
12	K806150G1	CABLE ASM MIKE	G2				
		NON REFERENCED ITEMS:					
	A700136P2	SLV INS EL D-1.6X 0.43					

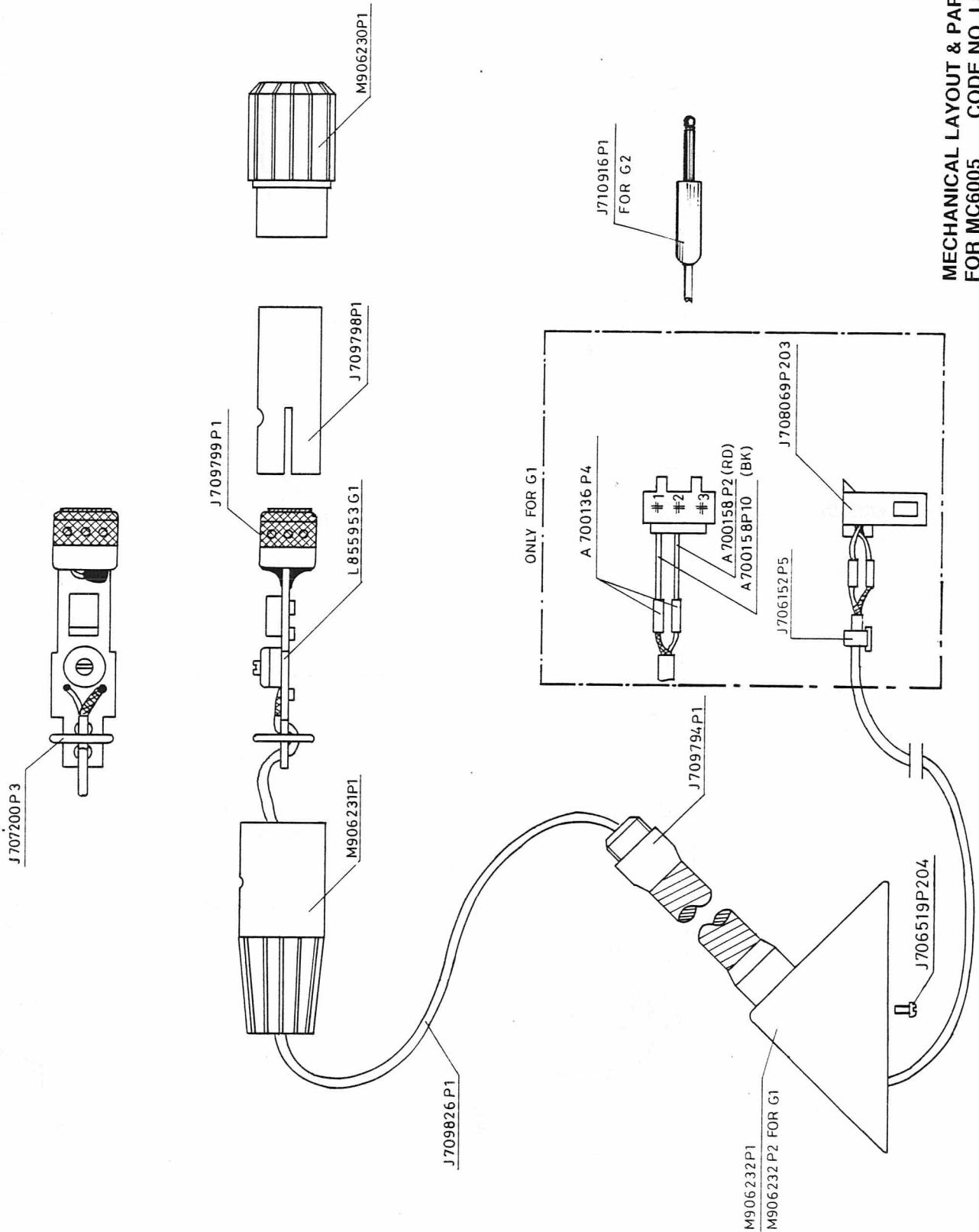


MECHANICAL LAYOUT & PART NUMBERS
FOR MC6005 CODE NO. L855959 G1/G2

M405.3206

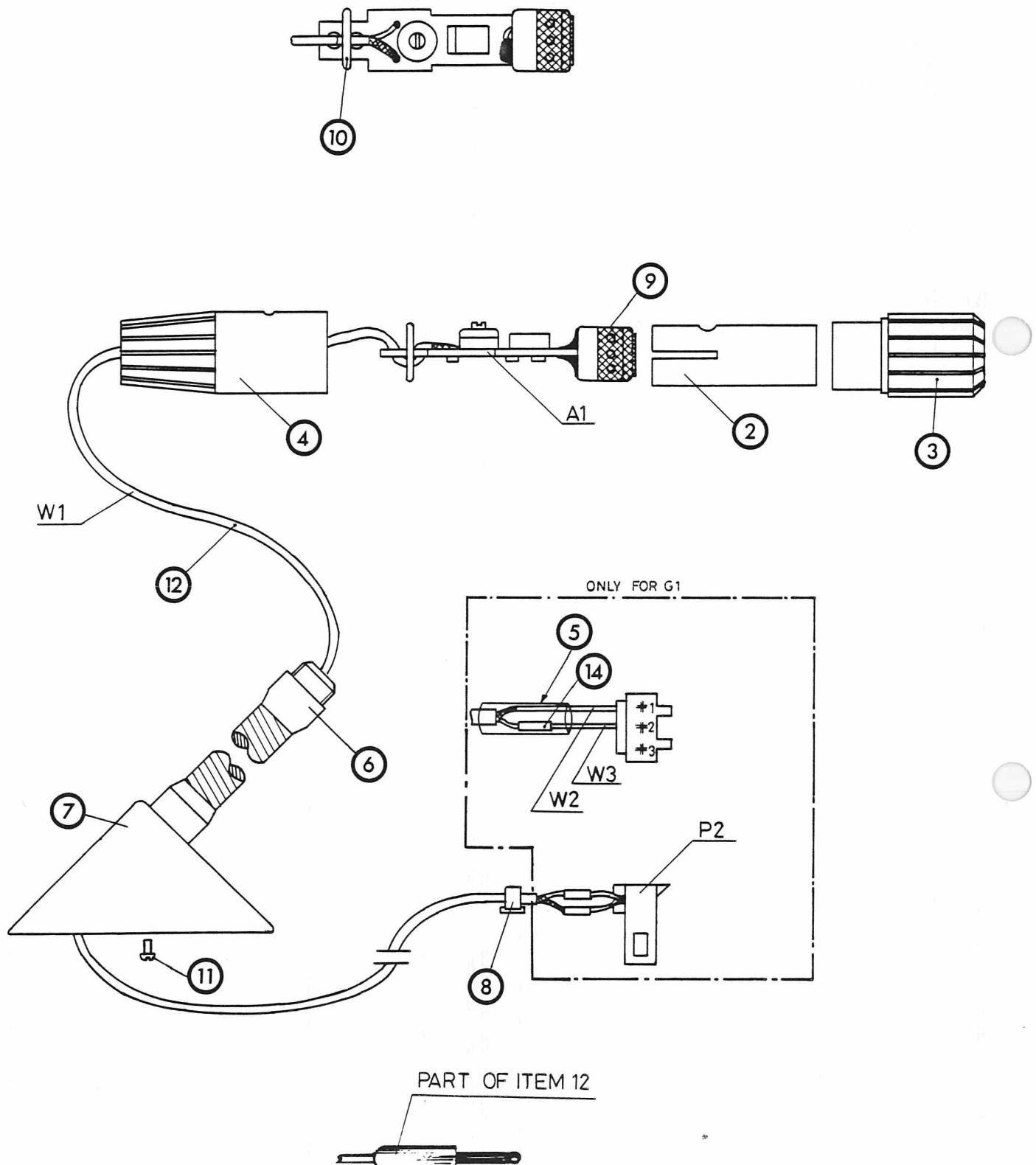
MECHANICAL LAYOUT & PART NUMBERS
FOR MC6005 CODE NO. L855959G1/G2

M405.3



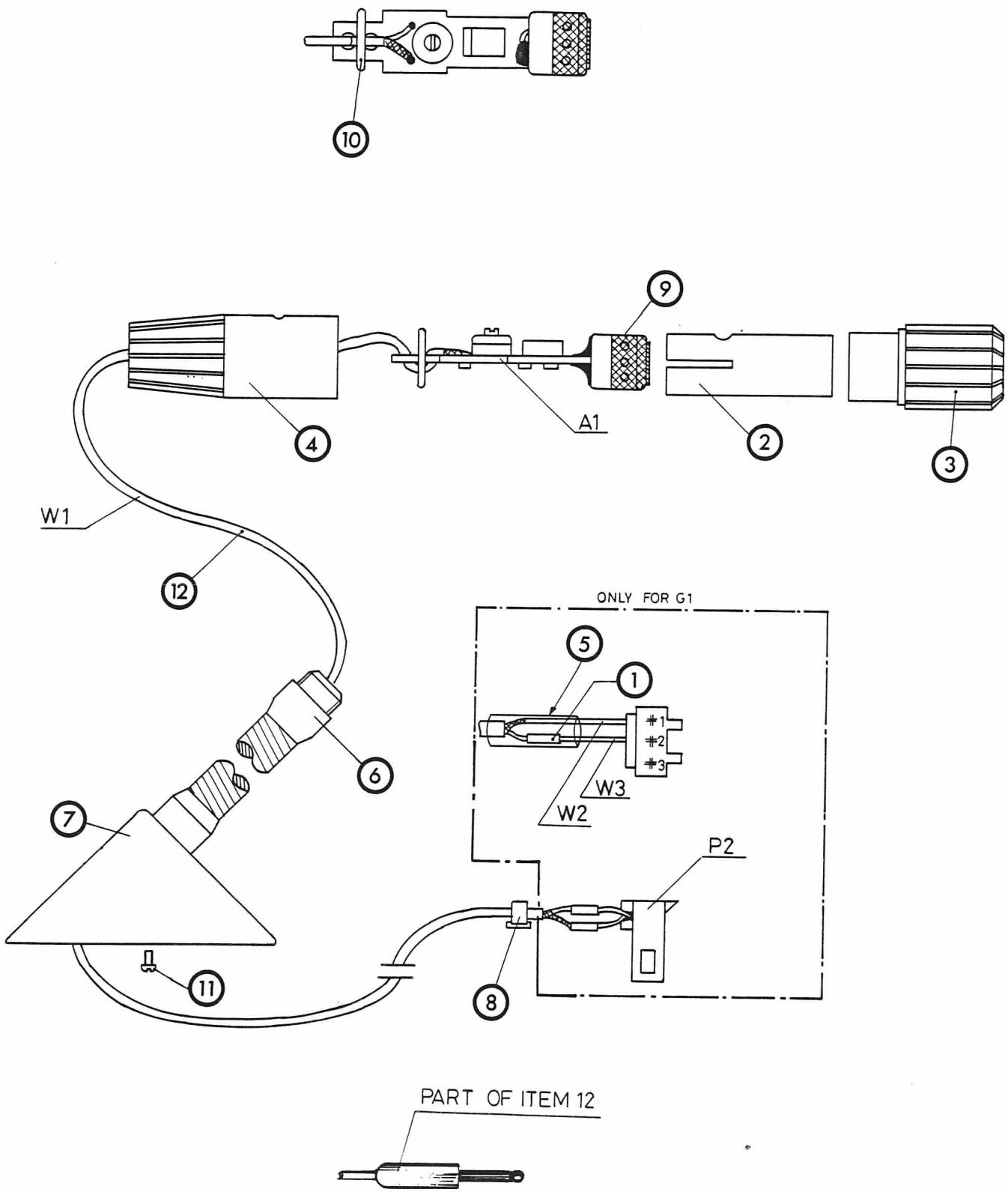
MECHANICAL PARTS LIST FOR MICROPHONE MC6005 : L855959G1/G2

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
A001	L855953G1	COMPONENT BD PW	1				
P002	J708069P203	CONN PWB FEM 03-CKT	G1				
W001	J709826P1	CABLE AF SHLD MICROPHONE	G1				
W002	A700158P10	WIRE AWG 22 BK	G1				
W003	A700158P2	WIRE AWG 22 RD	G1				
0002	J709798P1R1	COVER	1				
0003	M906230P1	HOUSING FRONT	1				
0004	M906231P1	HOUSING REAR	1				
0005	A700136P4	SLV INS EL D-3.2X 0.51	G1				
0006	J709794P1	MOUNT GOOSENECK	1				
0007	M906232P1	FOOT	G1				
0007	M906232P2	FOOT	G2				
0008	J706152P5	STRAP RET W-BDL D-19	1				
0009	J709799P1	FILTER	1				
0010	J707200P3	PACKING D-5.3X2.4	1				
0011	J706212P104	SCR PAN HD \-2.0X 9.5	1				
0012	K806150G1	CABLE ASM MIKE	G2				
0013	A700136P2	SLV INS EL D-1.6X 0.43					
0014	J708296P5	SLV INS ELEC D-1.5/0.15	G1				

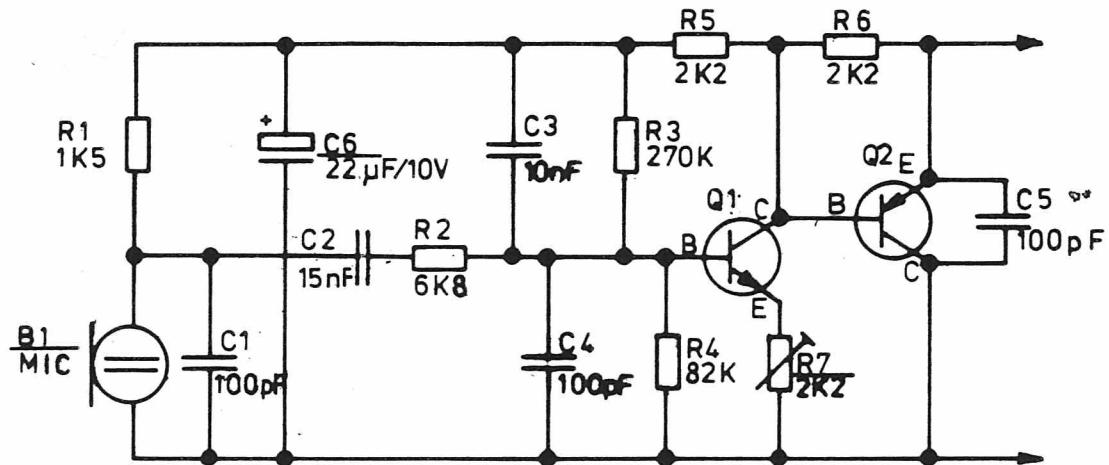


MECHANICAL LAYOUT &
PART NUMBERS FOR MC6005

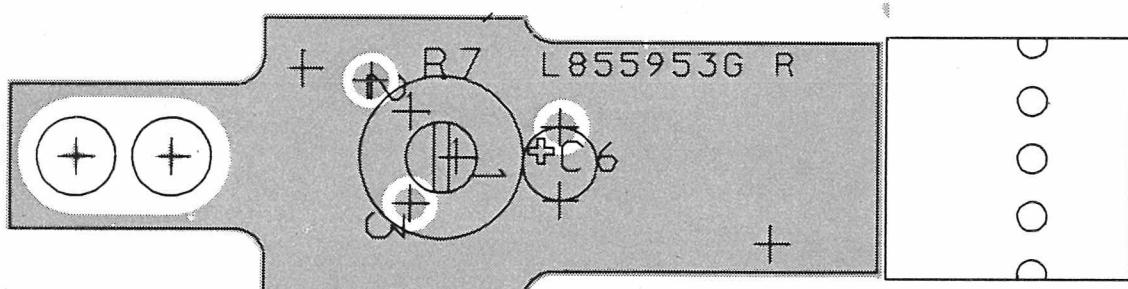
CODE NO. L855959G1/G2 M405.320/7



MECHANICAL LAYOUT &
PART NUMBERS FOR MC6005
CODE NO. L855959G1/G2 M405.320/8

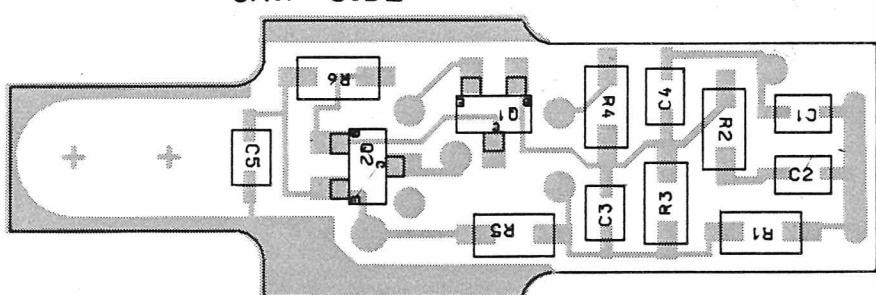


COMPONENT SIDE



MOUNTED BOARD CODE NO. L855953G1 REV. 0

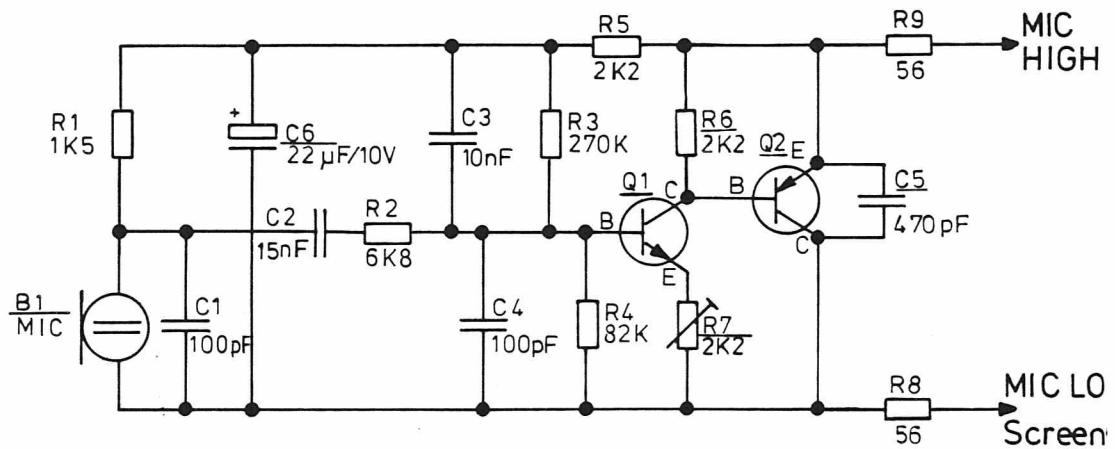
CHIP SIDE



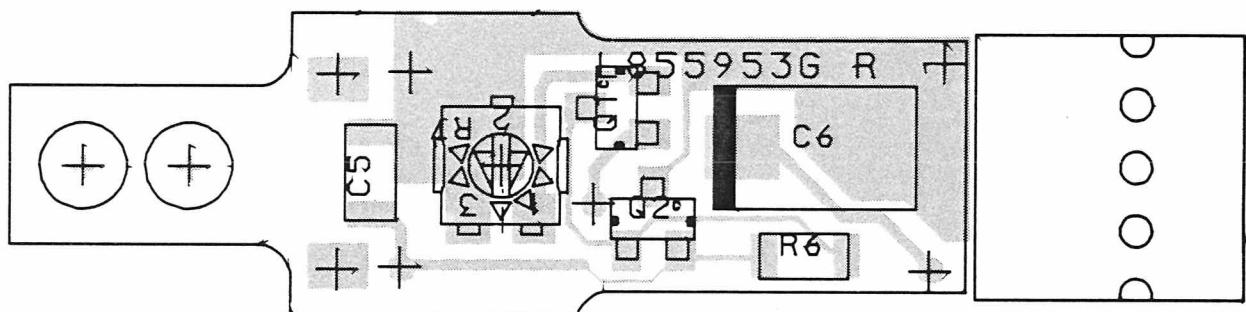
NOTE:

COMPONENTS MARKED XXXX ARE
MOUNTED ON COMPONENT SIDE.

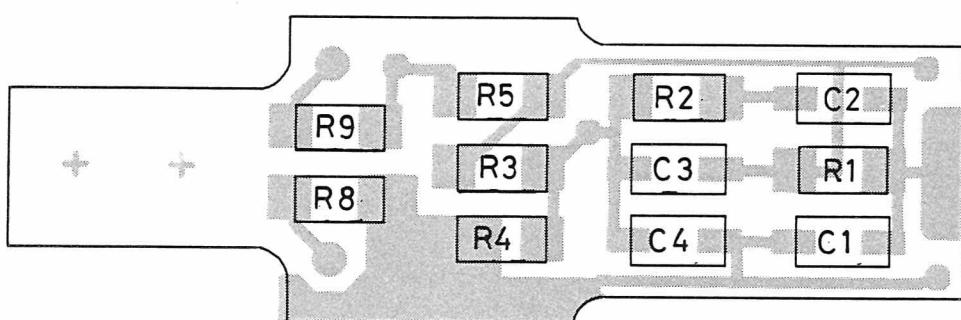
MICROPHONE MC6005
CODE NO L855959G1 D404.500/2



COMPONENT SIDE

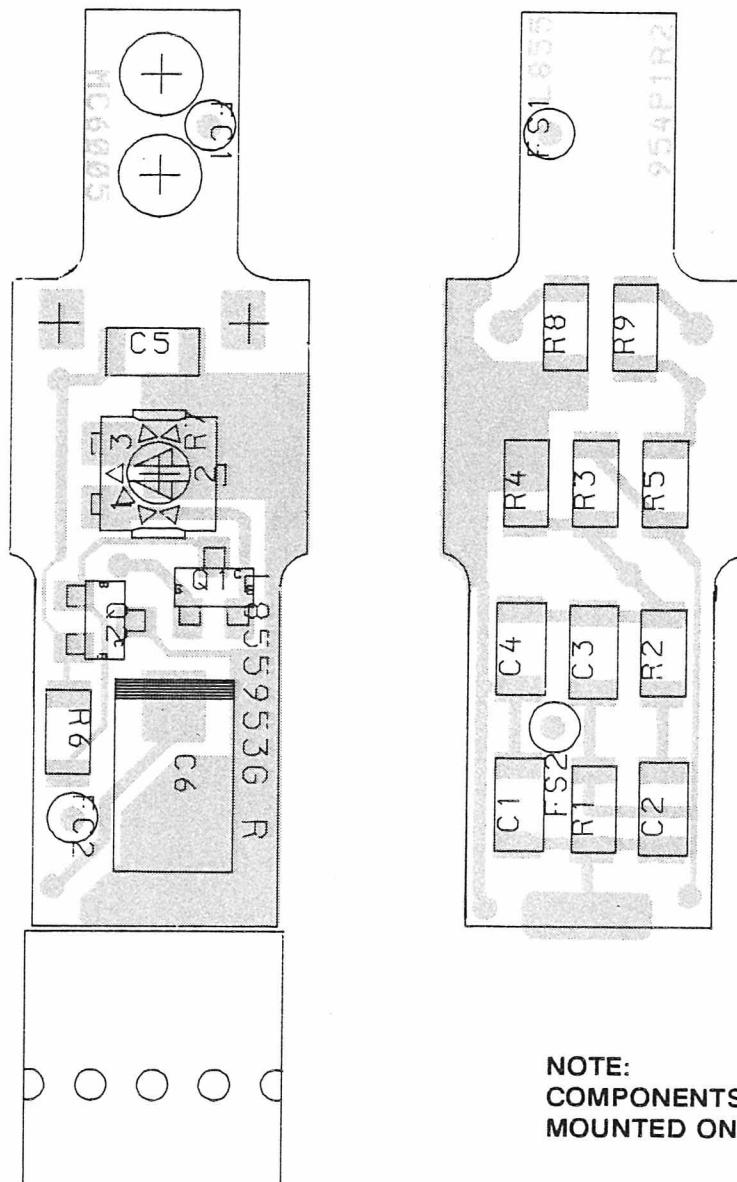
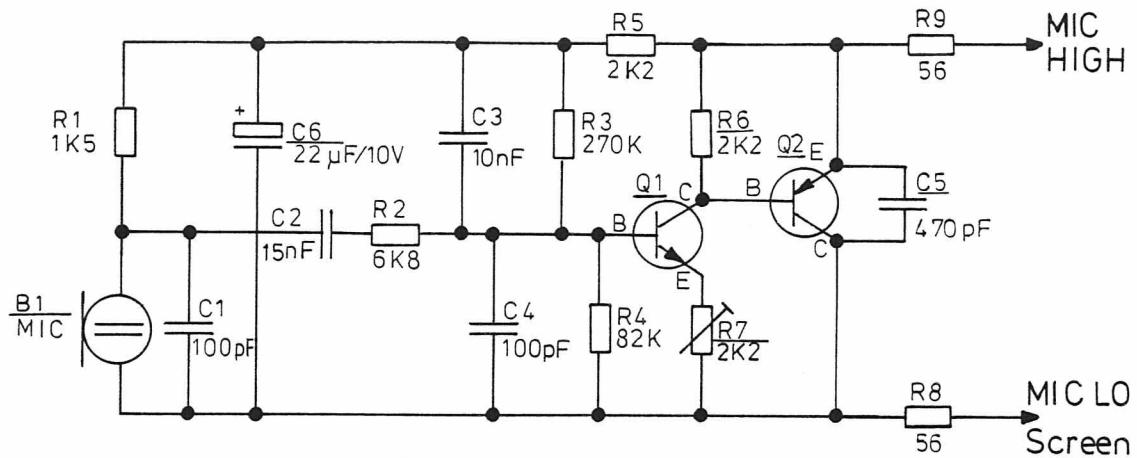


CHIP SIDE



NOTE:
COMPONENTS MARKED RXXX ARE
MOUNTED ON COMPONENT SIDE.

MICROPHONE BOARD MC6005
CODE NO.L855953G1 REV.1/A D404.500/3



NOTE:
COMPONENTS MARKED XXXX ARE
MOUNTED ON COMPONENT SIDE.

MICROPHONE BOARD MC6005

CODE NO. L855953G1 REV. 2/A

D404.500/4

MICROPHONE BOARD MC6005 : L855953G1

Pos	Code No.	Description			Qt	Pos	Code No.	Description			Qt
B001	J709772P1	MICROPHONE	INSERT	1K	1						
C001	J710678P25	CAP CER NPO	100P	2%	1						
C002	J710695P16	CAP CER CL2	15N	10%	1						
C003	J710695P14	CAP CER CL2	10N	10%	1						
C004	J710678P25	CAP CER NPO	100P	2%	1						
C005	J710659P77	CAP CER NPO	470P	5%	1						
C006	J709426P16	CAP TA SOL	22U	16V	1						
Q001	J709857P1	TSTR NPN SI	MMBT A13		1						
Q002	J707387P1	TSTR PNP SI	BCW 30		1						
R001	J707385P152	RES MFLM 1/8W	1K5	5%	1						
R002	J707385P682	RES MFLM 1/8W	6K8	5%	1						
R003	J707385P274	RES MFLM 1/8W	270K	5%	1						
R004	J707385P823	RES MFLM 1/8W	82K	5%	1						
R005	J707385P222	RES MFLM 1/8W	2K2	5%	1						
R006	J707385P222	RES MFLM 1/8W	2K2	5%	1						
R007	J710708P5	RES VAR CERM	2K	20%	1						
R008	J707385P560	RES MFLM 1/8W	56R	5%	1						
R009	J707385P560	RES MFLM 1/8W	56R	5%	1						
	L855954P1R1	BOARD PW			1						

PARTS LIST FOR MICROPHONE BOARD MC6005 : L855953G1

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENTS REVISED SINCE LAST EDITION ARE MARKED *					
B001	J709772P1	MICROPHONE INSERT, 1K	1				
C001	J710678P25	CAP,CER,NPO 100P , 2%	1				
C002	2113741N49	CAP,CER,CL2 15N , 10%	1				
C003	2113741N45	CAP,CER,CL2 10N , 10%	1				
C004	J710678P25	CAP,CER,NPO 100P , 2%	1				
C005	2113740B65	CAP,CER,NPO 470P , 5%	1				
C006	2311049A21	CAP,TA,SOL 22U , 20V	1				
Q001	J709857P1	TSTR,NPM,SI MMBT A13	1				
Q002	J707387P1	TSTR,PNP,SI BCW 30	1				
R001	J707385P152	RES,MFLM,1/8W 1K5 , 5%	1				
R002	J707385P682	RES,MFLM,1/8W 6K8 , 5%	1				
R003	J707385P274	RES,MFLM,1/8W 270K , 5%	1				
R004	J707385P823	RES,MFLM,1/8W 82K , 5%	1				
R005	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1				
R006	J707385P222	RES,MFLM,1/8W 2K2 , 5%	1				
R007	J710708P5	RES,VAR,CERM 2K , 20%	1				
R008	J707385P560	RES,MFLM,1/8W 56R , 5%	1				
R009	J707385P560	RES,MFLM,1/8W 56R , 5%	1				
	L855954P1R2	BOARD PW	*				

CHAPTER 6

MOUNTING DEVICES

MOUNTING DEVICES MN60XX :

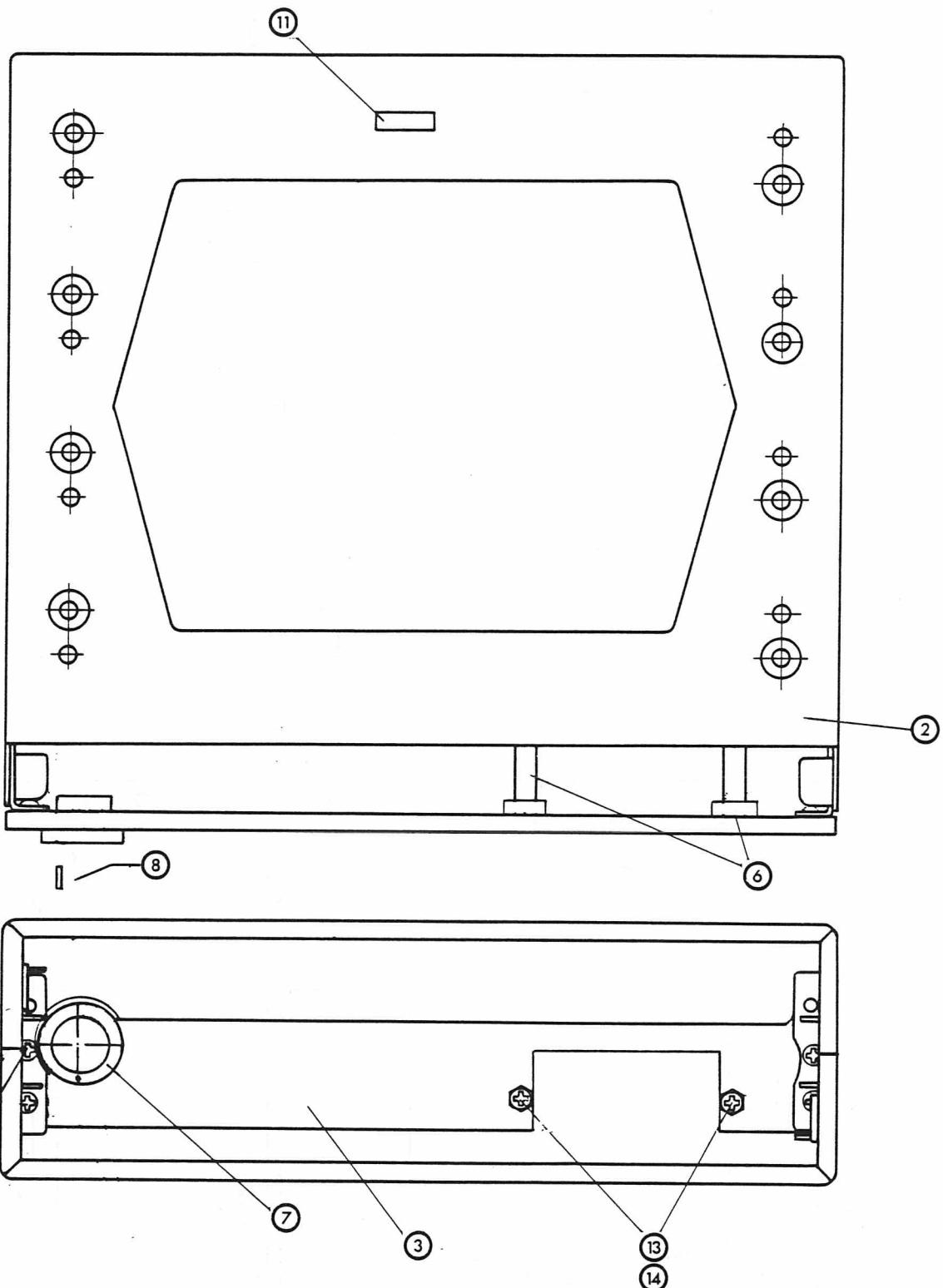
- MN6002
- MN6004
- MN6006
- MN6008
- MN6009
- MN6013

MECHANICAL PARTS LIST FOR MN6002 : L855703G2

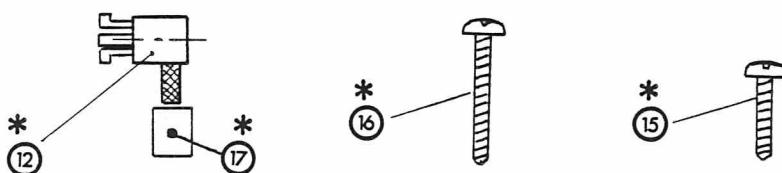
Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
2	L855704G1	CASSETTE PAINTED	1				
3	K805590G2	GUIDE PAINTED	1				
4	A700031P408	SCR PAN HD M-3.0X 8.0	4				
5	J706076P5	WASH SPG 3.2X 6.4	4				
6	J709722P1	SPACER	2				
7	J709631G2	BUSH CONN COATED	1				
8	J709416P16	PIN ROLL 1.5X 4.0MM	1				
10	A700031P405	SCR PAN HD M-3.0X 5.0	2				
11	J706307P59	NAME PLATE MN6002	1				
12	J708306P5	CONNECTOR BNC MOD	1				
13	A700031P308	SCR PAN HD M-2.5X 8.0	2				
14	J706076P4	WASH SPG 2.7X 4.9	2				
15	A701507P810	SCR PAN HD SZ4.2X15.9	4				
16	A701507P816	SCR PAN HD SZ4.2X25.4	4				
17	J706519P105	SCR HDLS M-2.0X 5.0	1				

MECHANICAL PARTS LIST FOR MN6002 : L855703G2

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
2	L855704G1	CASSETTE PAINTED	1				
3	K805590G2	GUIDE PAINTED	1				
4	A700031P408	SCR PAN HD M-3.0X 8.0	4				
5	J706076P5	WASH SPG 3.2X 6.4	4				
6	J709721P1R2	SPACER	2				
7	J709631G2	BUSH CONN COATED	1				
8	J709416P16	PIN ROLL 1.5X 4.0MM	1				
10	A700031P405	SCR PAN HD M-3.0X 5.0	2				
11	J706307P59	NAME PLATE MN6002	1				
12	J708306P5	CONNECTOR BNC MOD	1				
13	A700031P308	SCR PAN HD M-2.5X 8.0	2				
14	J706076P4	WASH SPG 2.7X 4.9	2				
15	A701507P810	SCR PAN HD SZ4.2X15.9	4				
16	A701507P816	SCR PAN HD SZ4.2X25.4	4				
17	J706519P105	SCR HDLS M-2.0X 5.0	1				



* TO BE PACKED SEPARATELY
IN A PLASTICBAG

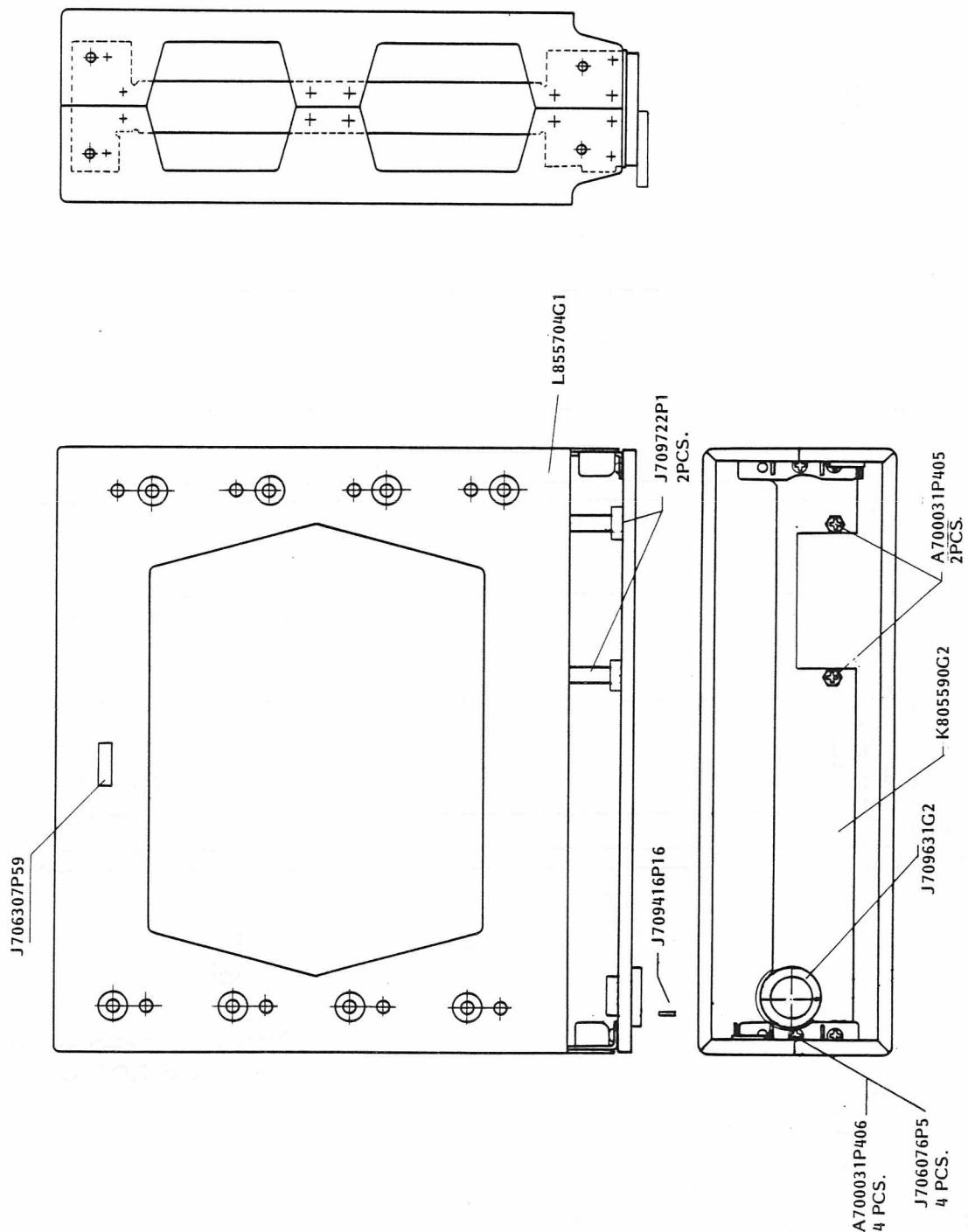


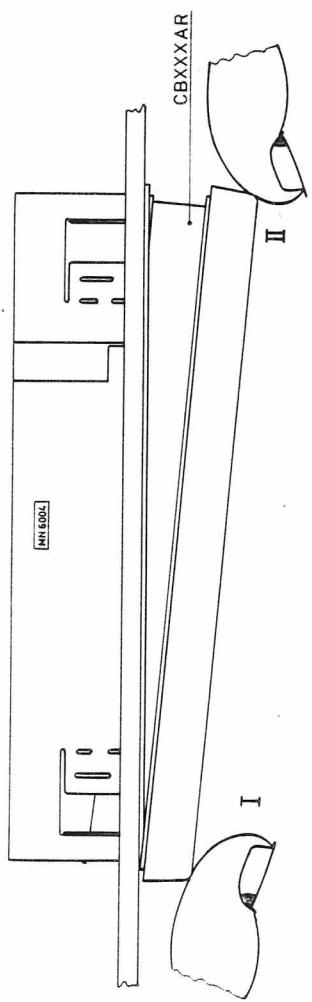
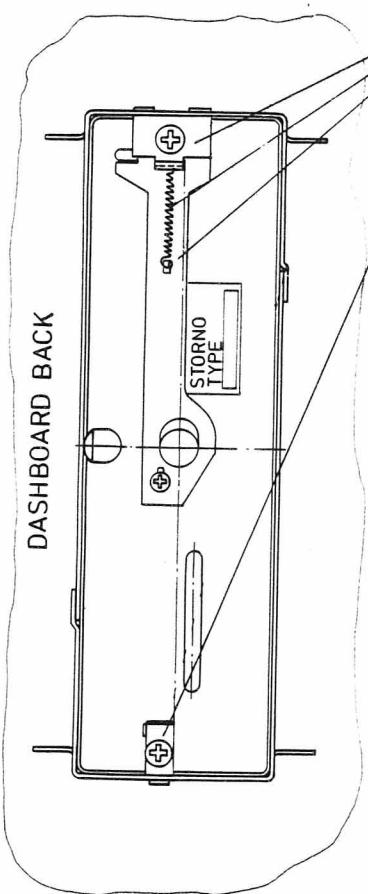
MECHANICAL LAYOUT & PART NUMBERS
FOR MN6002 CODE NO. L855703G2

M405.256/3

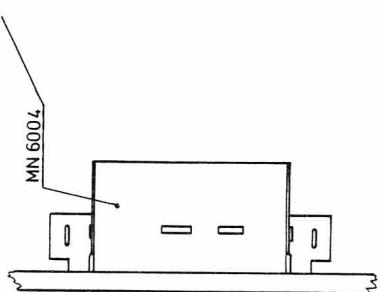
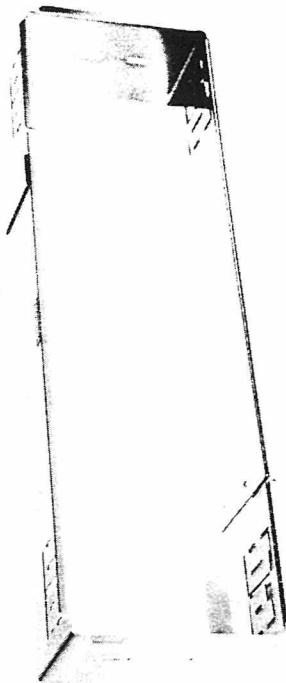
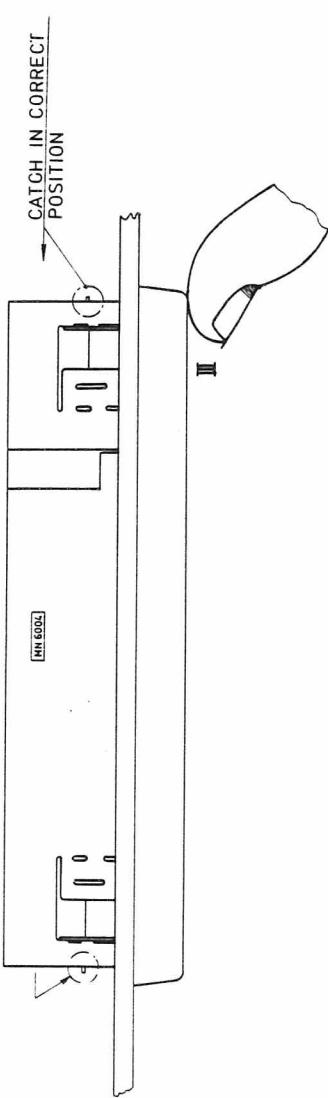
MECHANICAL LAYOUT & PART NUMBERS
FOR MIN6002 CODE NO. L855703G2

M405. 2nd S/2





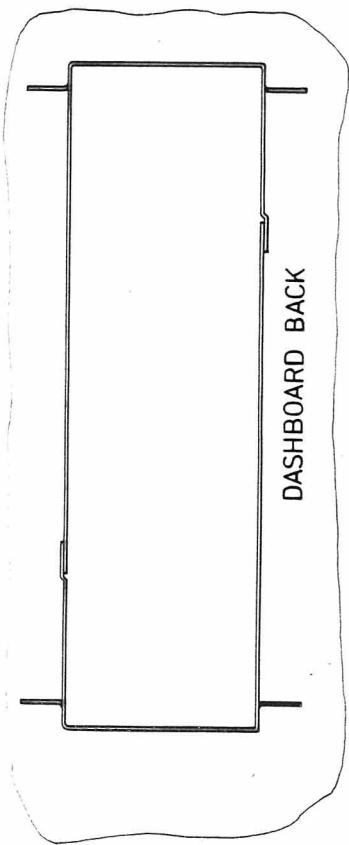
NOTE:
MOUNTING MN 6004 INTO A DASHBOARD.
AFTER THE MN 6004 HAS BEEN PUSHED INTO THE OPENING IN
THE DASHBOARD, TURN FOUR OF THE EARS (WHICH OF THESE -
DEPENDS ON THE THICKNESS OF THE DASH BOARD).
BE SURE THAT ALL THE FOUR EARS AND THE FRAME ARE PRESSING
AGAINST THE PANEL, DURING AND AFTER THE MOUNTING.



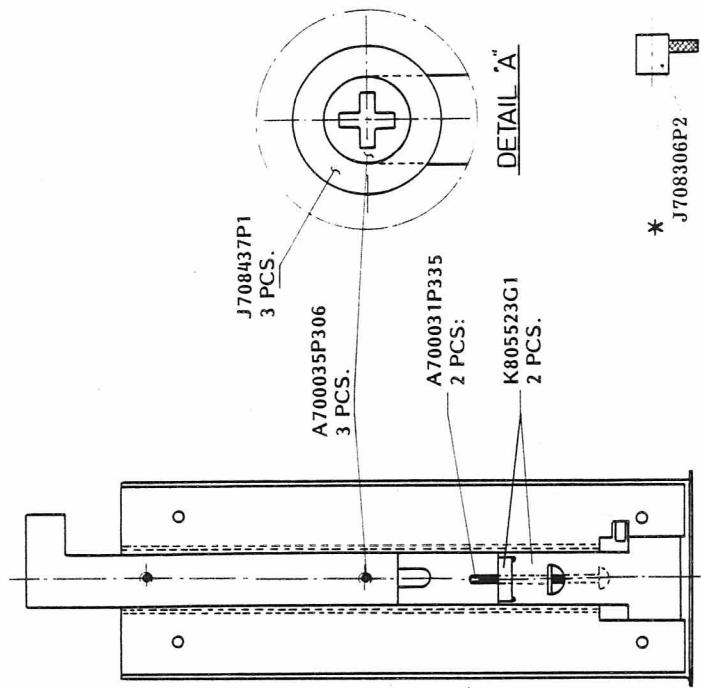
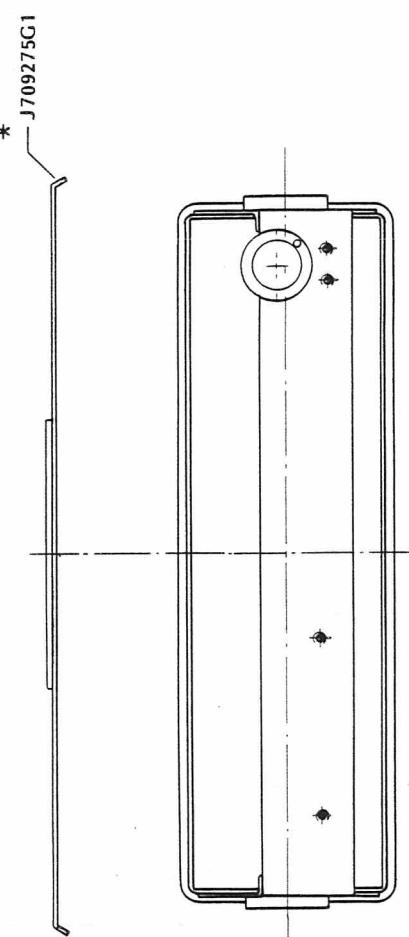
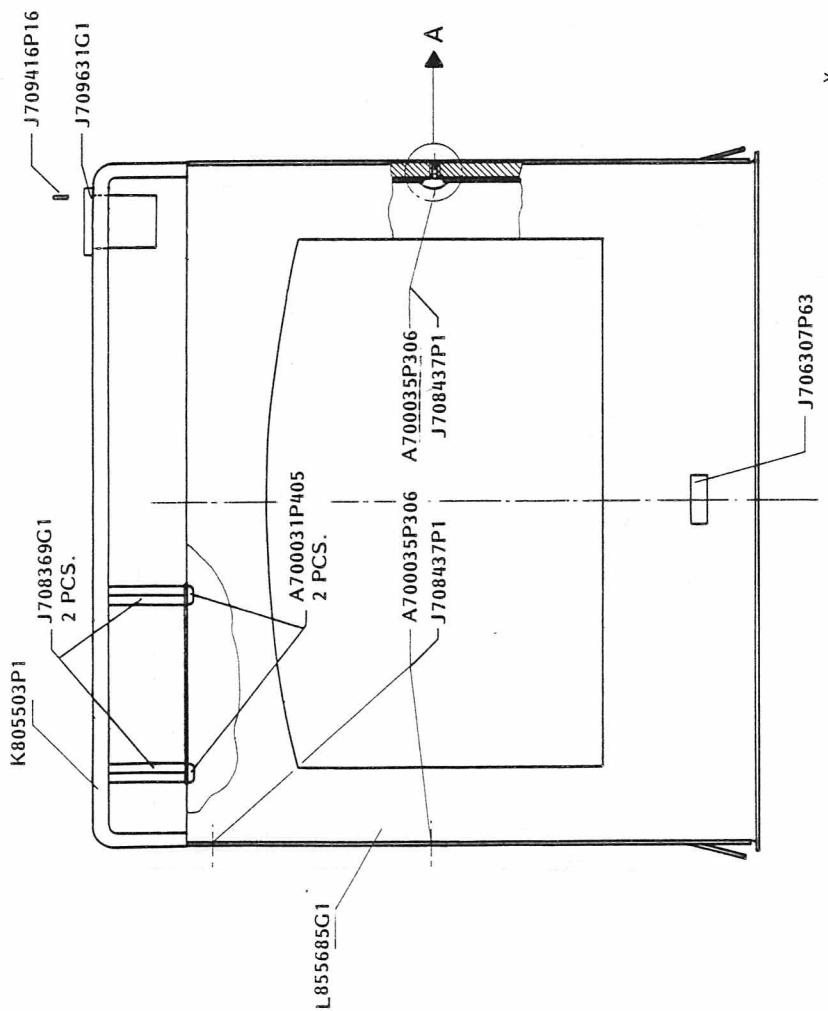
SEE ALSO DRAWING NO. M405. 203

MOUNTING INSTRUCTION
FOR MN6004 CODE NO. K805674G1

M405. 257/2



Storno



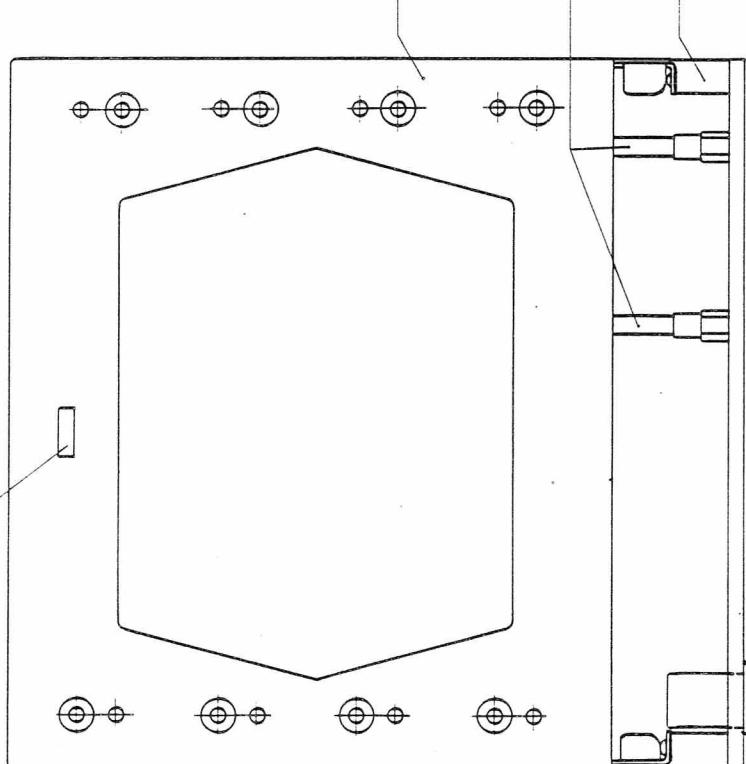
* ITEM TO BE PACKED SEPARATELY
IN A PLASTICBAG

MECHANICAL LAYOUT & PART NUMBERS
FOR MN6006 CODE NO. L855586G1

M405. 258

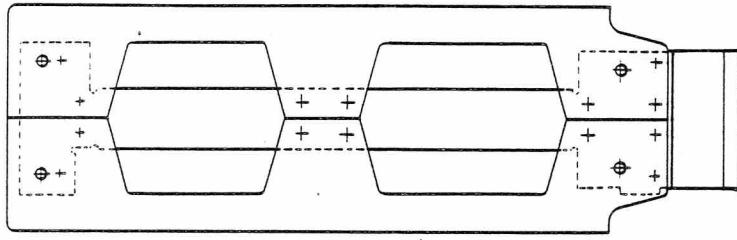
Storno

J706307P67



J709131G1
2 PCS.

J709132G1
2 PCS.

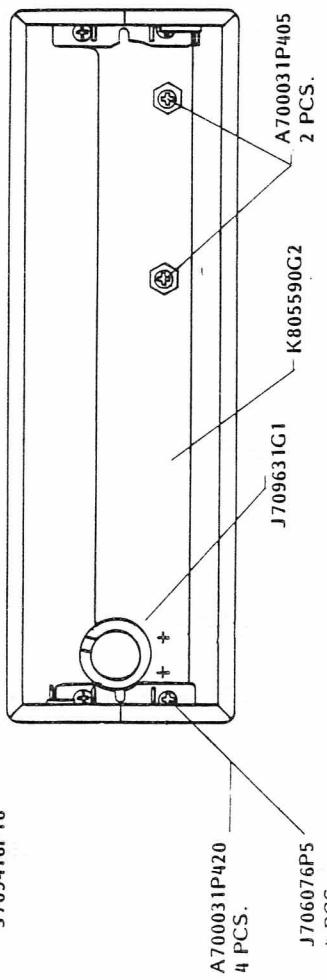


* J708306P2

* A701507P810
4 PCS.

* A701507P816
4 PCS.

* TO BE PACKED SEPARATELY
IN A PLASTICBAG



A700031P405
2 PCS.

A700031P420
4 PCS.

J708076P5
4 PCS.

K8055590G2

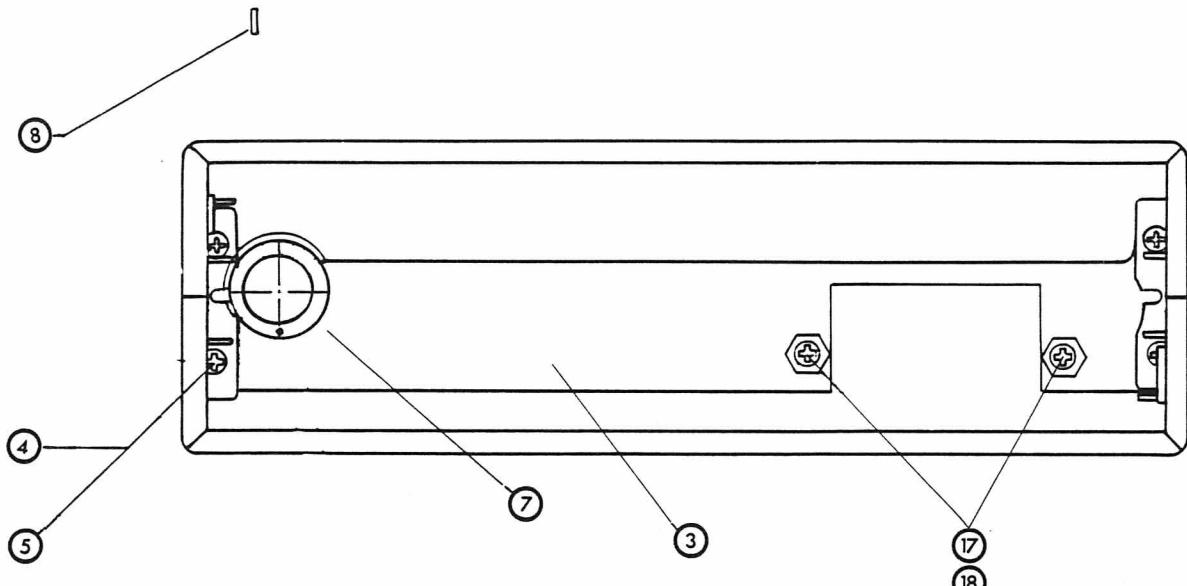
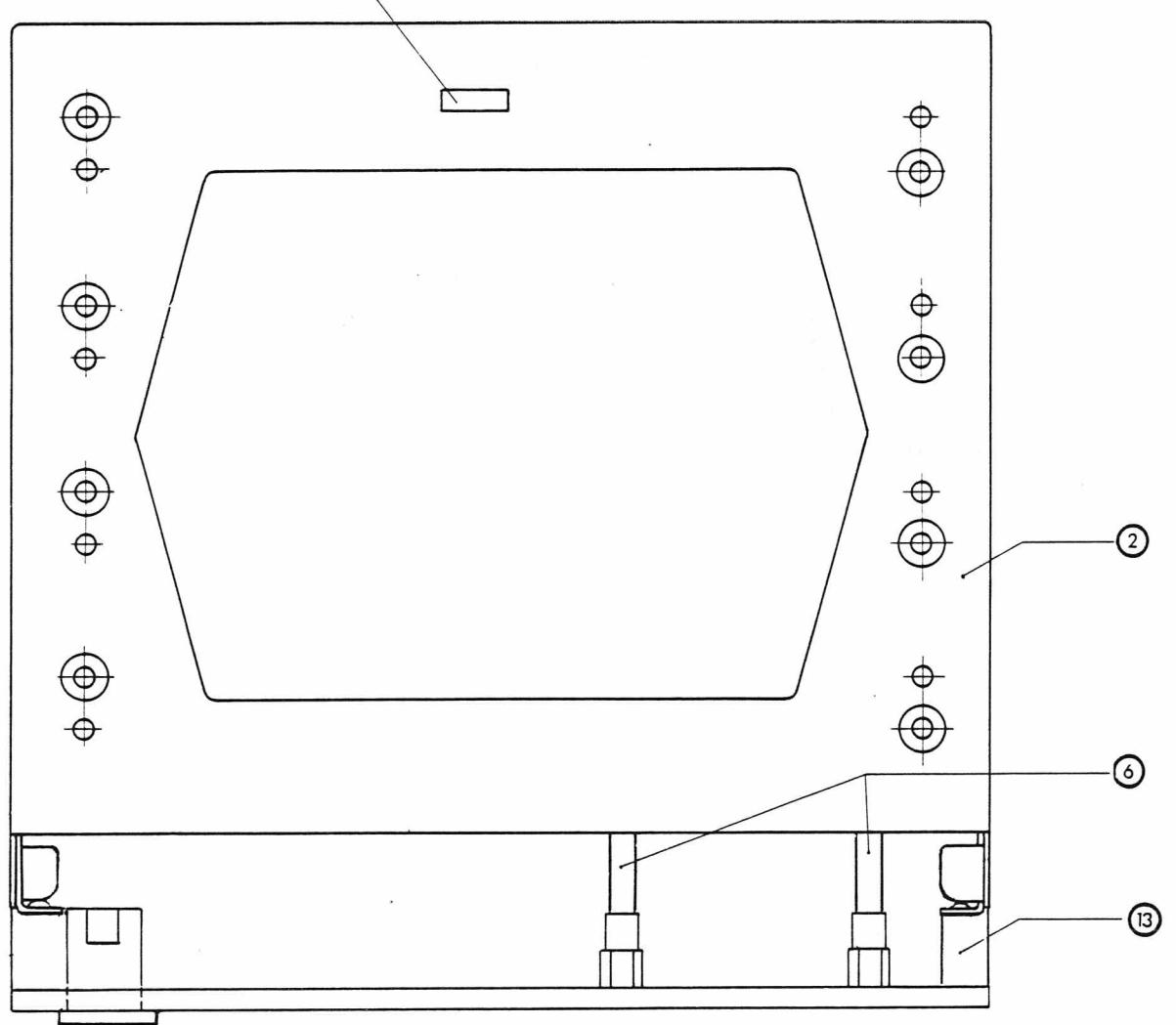
J709631G1

MECHANICAL LAYOUT & PART NUMBERS
FOR MN6008 CODE NO. L855703G3

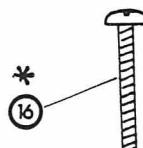
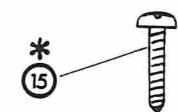
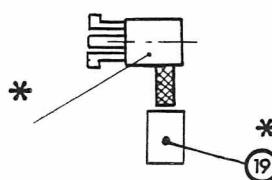
M405. 259

MECHANICAL PARTS LIST FOR MN6008 : L855703G3

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
1	L855704G1	CASSETTE PAINTED	1				
2	K805590G2	GUIDE PAINTED	1				
3	A700031P420	SCR PAN HD M-3.0X20.0	4				
4	J706076P5	WASH SPG 3.2X 6.4	4				
5	J709131G1	SUPPORT PAINTED	2				
6	J709631G1	BUSH CONN COATED	1				
7	J709416P16	PIN ROLL 1.5X 4.0MM	1				
8	J706307P67	NAME PLATE MN6008	1				
9	J708306P5	CONNECTOR BNC MOD	*				
10	J709132G1	SUPPORT COATED	2				
11	A701507P810	SCR PAN HD SZ4.2X15.9	*				
12	A701507P816	SCR PAN HD SZ4.2X25.4	*				
13	A700031P308	SCR PAN HD M-2.5X 8.0	2				
14	J706076P4	WASH SPG 2.7X 4.9	2				
15	J706519P105	SCR HDLS M-2.0X 5.0	*				
		NON REFERENCED ITEMS:					
	J709721P1	SPACER	*				
	A700031P405	SCR PAN HD M-3.0X 5.0	*				
		ALL ITEMS MARKED * TO BE PACKED SEPARATELY IN A PLASTIC BAG					



* TO BE PACKED SEPARATELY
IN A PLASTICBAG



MECHANICAL LAYOUT &
PART NUMBERS
FOR MN6008

CODE NO. L855703G3

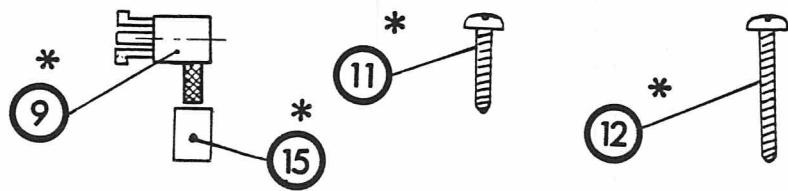
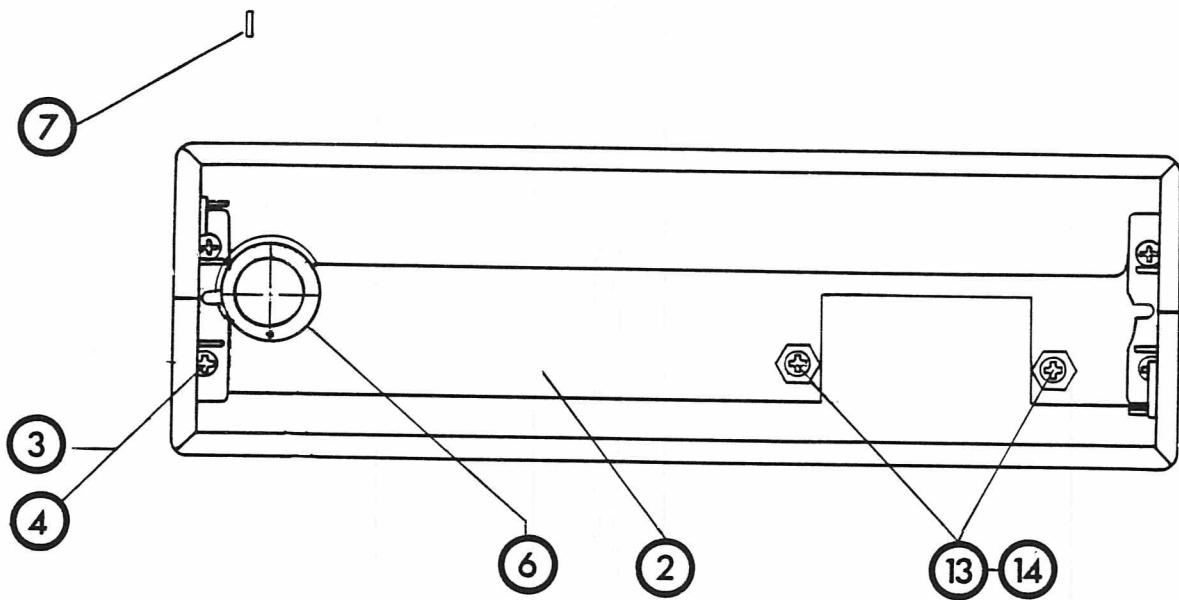
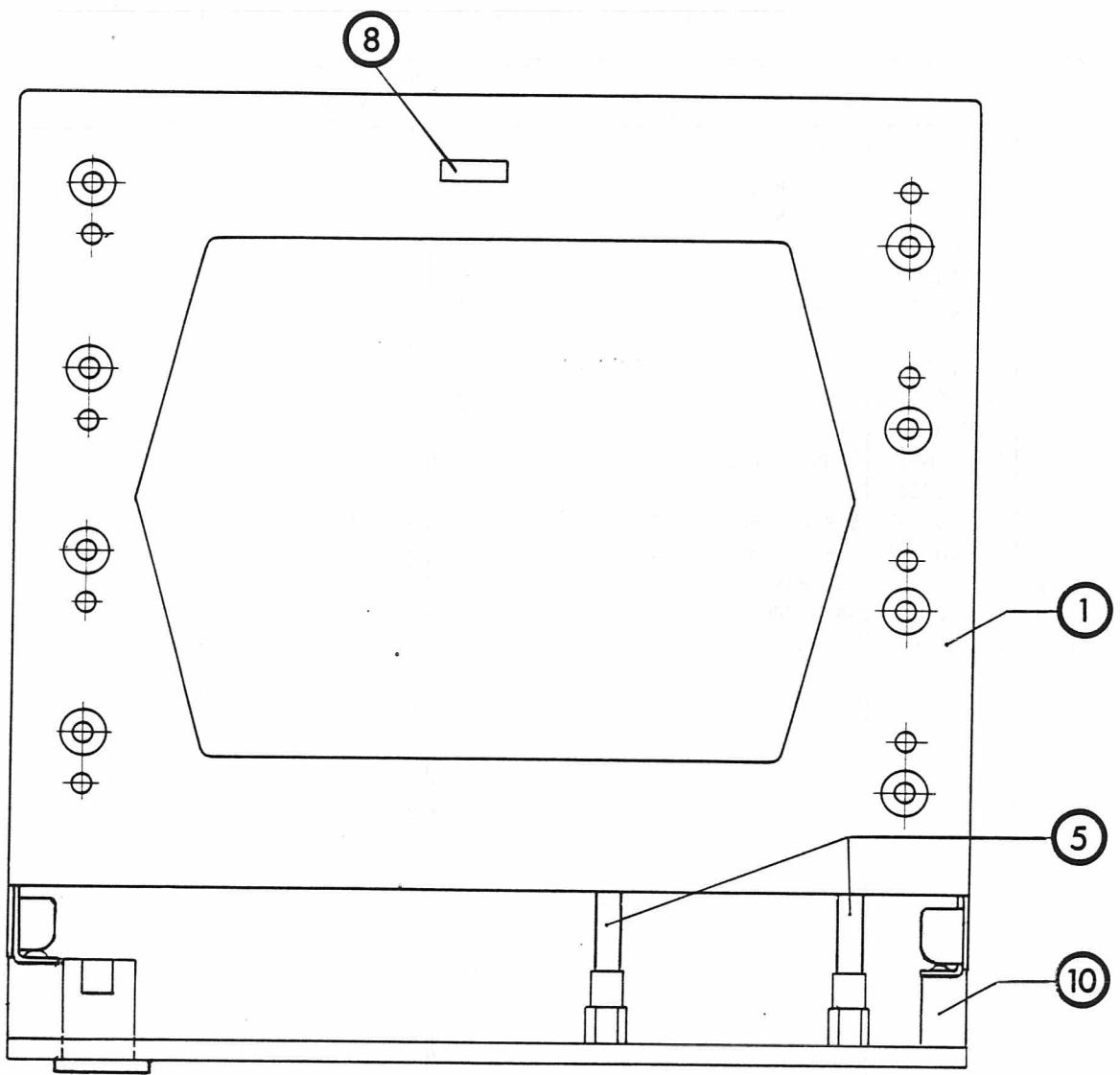
M405.259/3

DATE: 1/17/1989

Pos	Code No	Description	Qt	Pos	Code No	Description	Qt
1	L855703P3	MN 6008 ASM					
2	L855704G1	CASSETTE PAINTED	1				
3	K805590G2	GUIDE PAINTED	1				
4	A700031P420	SCR PAN HD M-3.0X20.0	4				
5	J706076P5	WASH SPG 3.2X 6.4	4				
6	J709131G1	SUPPORT PAINTED	2				
7	J709631G1	BUSH CONN COATED	1				
8	J709416P16	PIN ROLL 1.5X 4.0MM	1				
9	J709721P1	SPACER	2				
10	A700031P405	SCR PAN HD M-3.0X 5.0	2				
11	J706307P67	NAME PLATE MN6008	1				
12	J708306P5	CONNECTOR BNC MOD	1				
13	J709132G1	SUPPORT COATED	2				
15	A701507P810	SCR PAN HD SZ4.2X15.9	4				
16	A701507P816	SCR PAN HD SZ4.2X25.4	4				
17	A700031P308	SCR PAN HD M-2.5X 8.0	2				
17	J706519P105	SCR HDLS M-2.0X 5.0	1				
18	J706076P4	WASH SPG 2.7X 4.9	2				

MECHANICAL PARTS LIST FOR MN6008 : L855703G3

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
1	L855704G1	CASSETTE PAINTED	1				
2	K805590G2	GUIDE PAINTED	1				
3	A700031P425	SCR PAN HD M-3.0X25.0	4				
4	J706076P5	WASH SPG 3.2X 6.4	4				
5	J709131G1	SUPPORT PAINTED	2				
6	J709631G1	BUSH CONN COATED	1				
7	J709416P16	PIN ROLL 1.5X 4.0MM	1				
8	J706307P67	NAME PLATE MN6008	1				
9	J708306P5	CONNECTOR BNC MOD	*				
10	J709132G1	SUPPORT COATED	2				
11	A701507P810	SCR PAN HD SZ4.2X15.9	*				
12	A701507P816	SCR PAN HD SZ4.2X25.4	*				
13	A700031P308	SCR PAN HD M-2.5X 8.0	2				
14	J706076P4	WASH SPG 2.7X 4.9	2				
15	J706519P105	SCR HDLS M-2.0X 5.0	*				
		NON REFERENCED ITEMS:					
	J709721P1R2	SPACER	*				
	A700031P405	SCR PAN HD M-3.0X 5.0	*				
		ALL ITEMS MARKED * TO BE PACKED SEPARATELY IN A PLASTIC BAG					



FOR ITEMS MARKED *
SEE MPL405.259

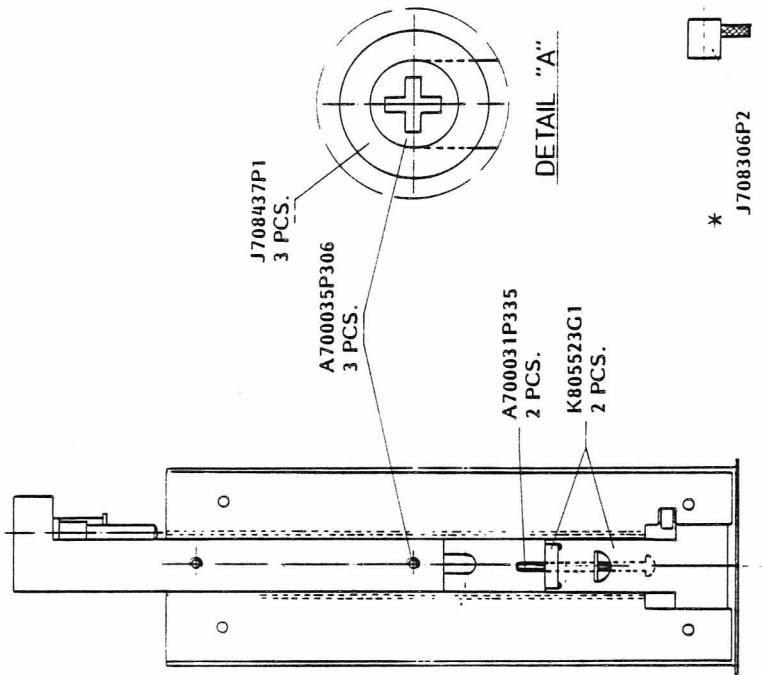
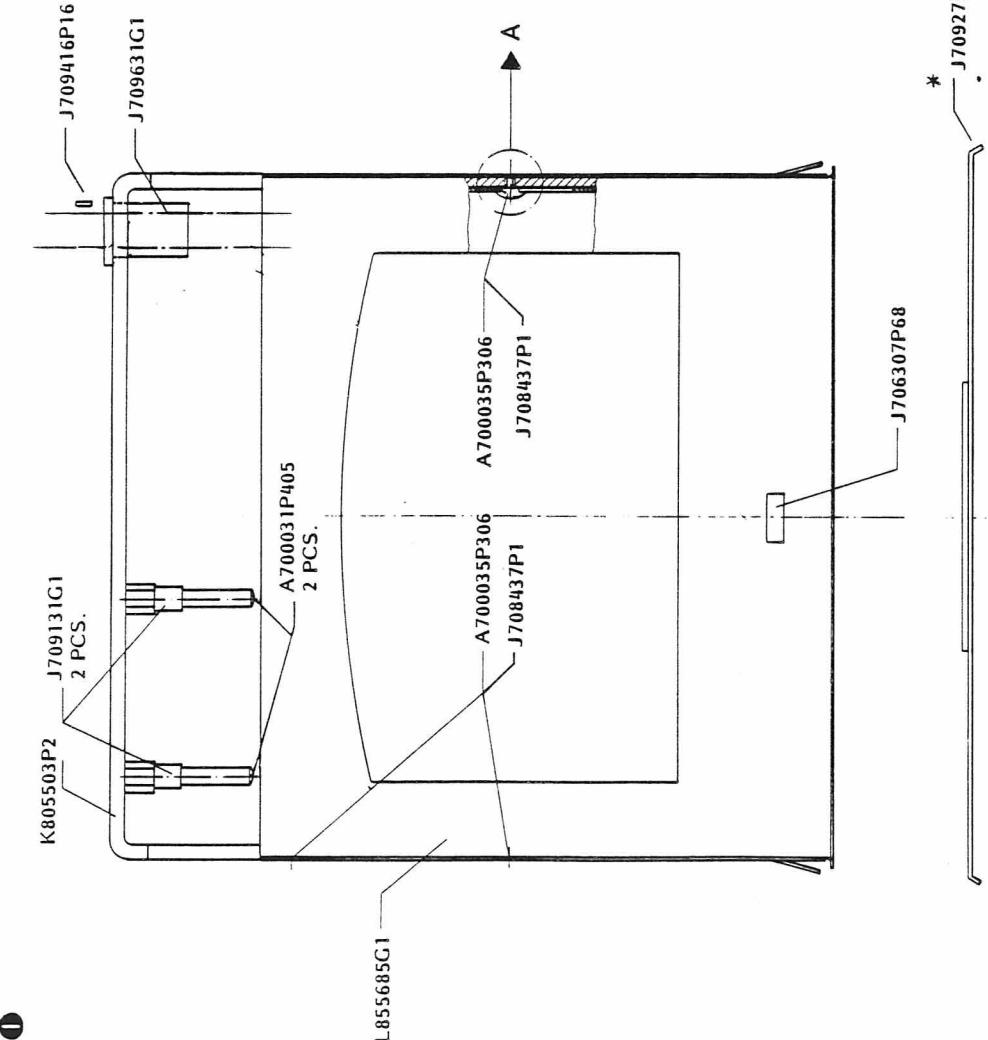
MECHANICAL LAYOUT &
PART NUMBERS FOR MN6008

CODE NO. L855703G3 M405.259/4

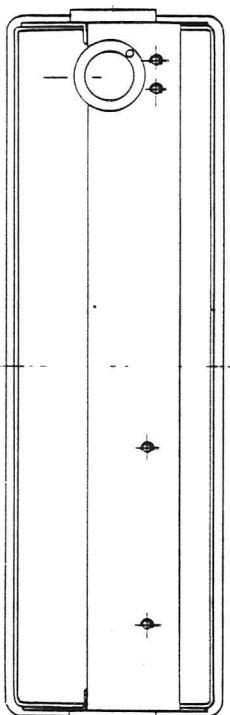
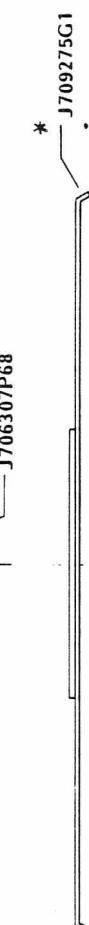
MECHANICAL PARTS LIST FOR MN6002 : L855703G2

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
2	L855704G1	CASSETTE PAINTED	1				
3	K805590G2	GUIDE PAINTED	1				
4	A700031P420	SCR PAN HD M-3.0X20.0	4				
5	J706076P5	WASH SPG 3.2X 6.4	4				
6	J709131G1	SUPPORT PAINTED	2				
7	J709631G1	BUSH CONN COATED	1				
8	J709416P16	PIN ROLL 1.5X 4.0MM	1				
9	J709721P1	SPACER	2				
10	A700031P405	SCR PAN HD M-3.0X 5.0	2				
11	J706307P67	NAME PLATE MN6008	1				
12	J708306P5	CONNECTOR BNC MOD	1				
13	J709132G1	SUPPORT COATED	2				
15	A701507P810	SCR PAN HD SZ4.2X15.9	4				
16	A701507P816	SCR PAN HD SZ4.2X25.4	4				
17	A700031P308	SCR PAN HD M-2.5X 8.0	2				
18	J706076P4	WASH SPG 2.7X 4.9	2				
19	J706519P105	SCR HDLS M-2.0X 5.0	1				

Storno

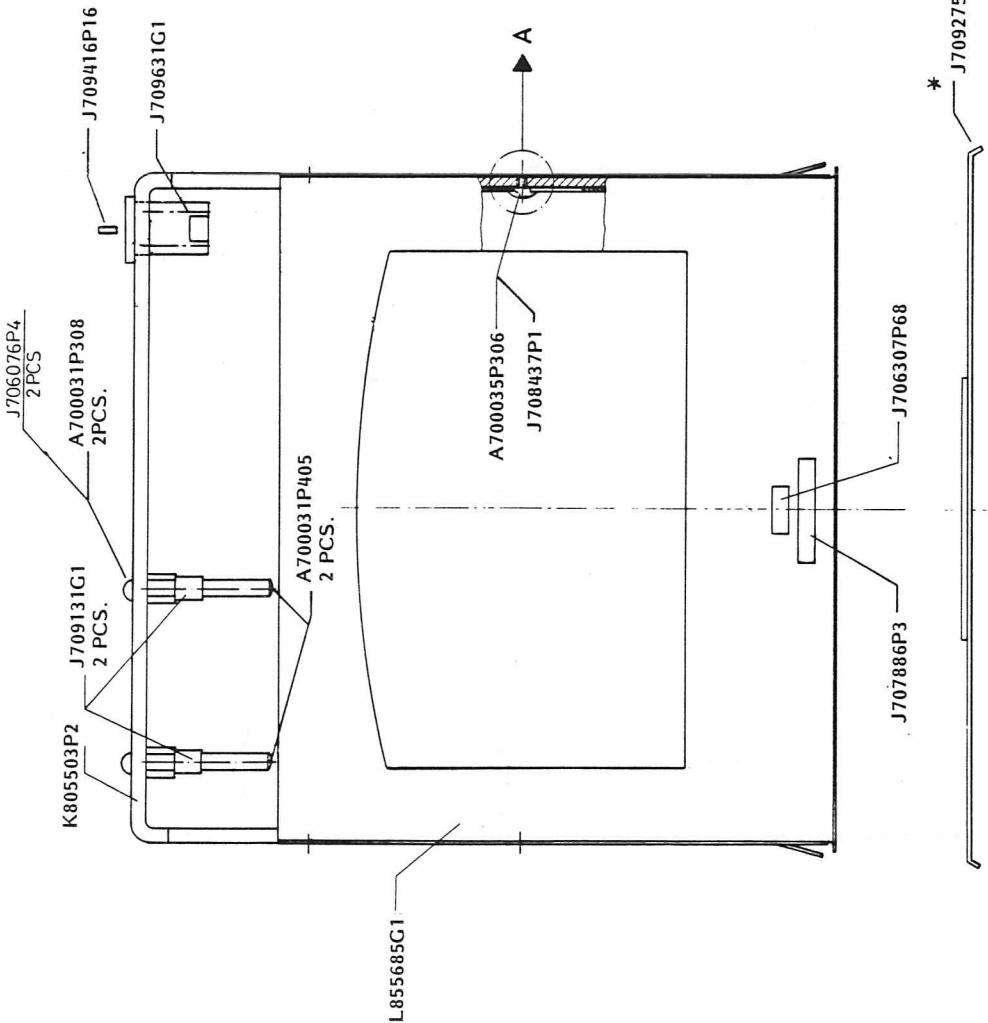


* ITEM TO BE PACKED SEPARATELY
IN A PLASTICBAG:

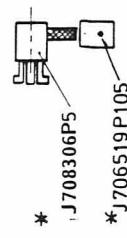
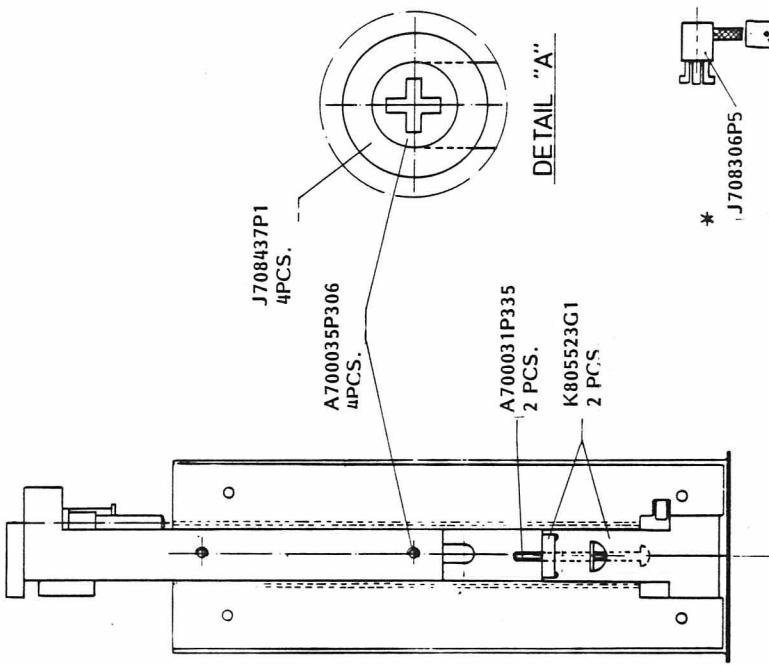
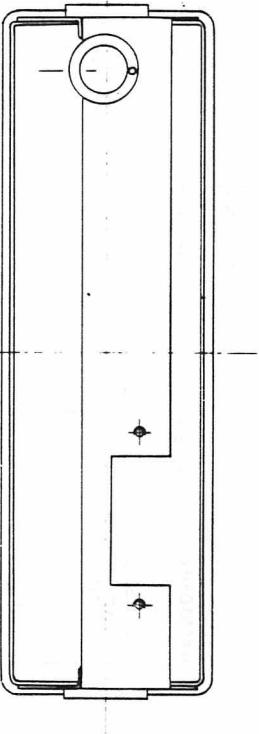


MECHANICAL LAYOUT & PART NUMBERS
FOR MN6009 CODE NO. L85586G3

M405. 260



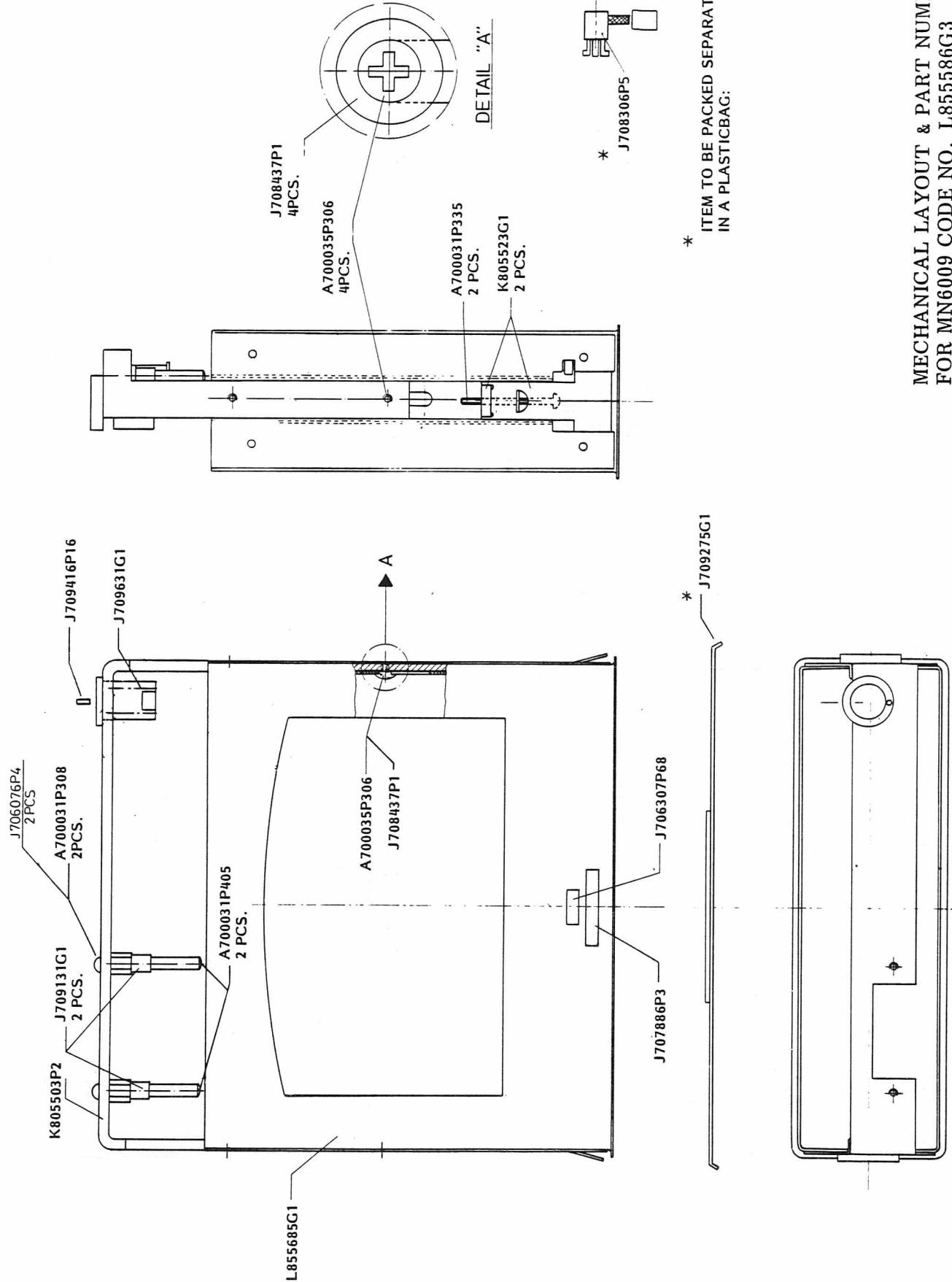
* ITEM TO BE PACKED SEPARATELY
IN A PLASTICBAG:



DETAIL "A"

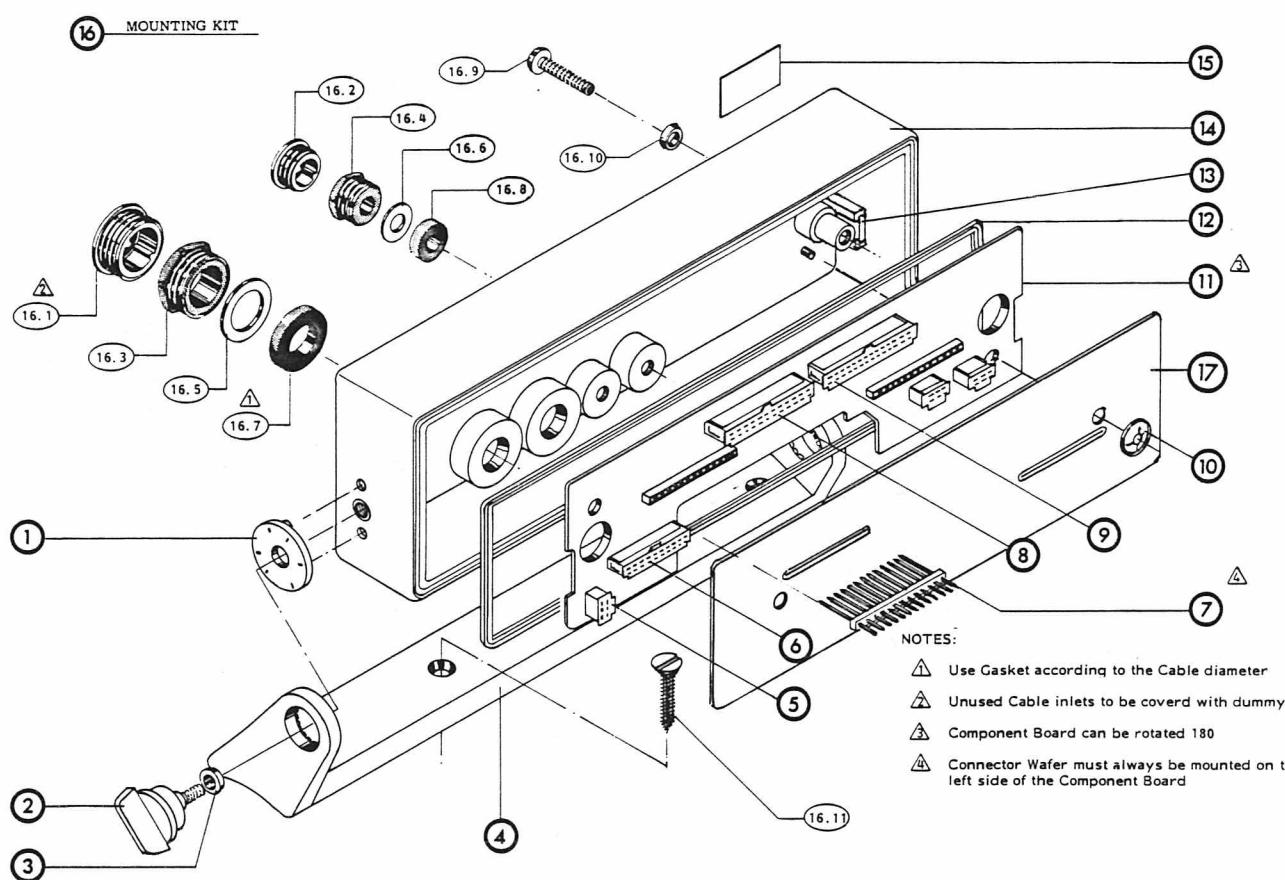
MECHANICAL LAYOUT & PART NUMBERS
FOR MN6009 CODE NO. L855586G3

M405.260/4



MECHANICAL LAYOUT & PART NUMBERS
FOR MN6009 CODE NO. L855586G3

M405. 260/3



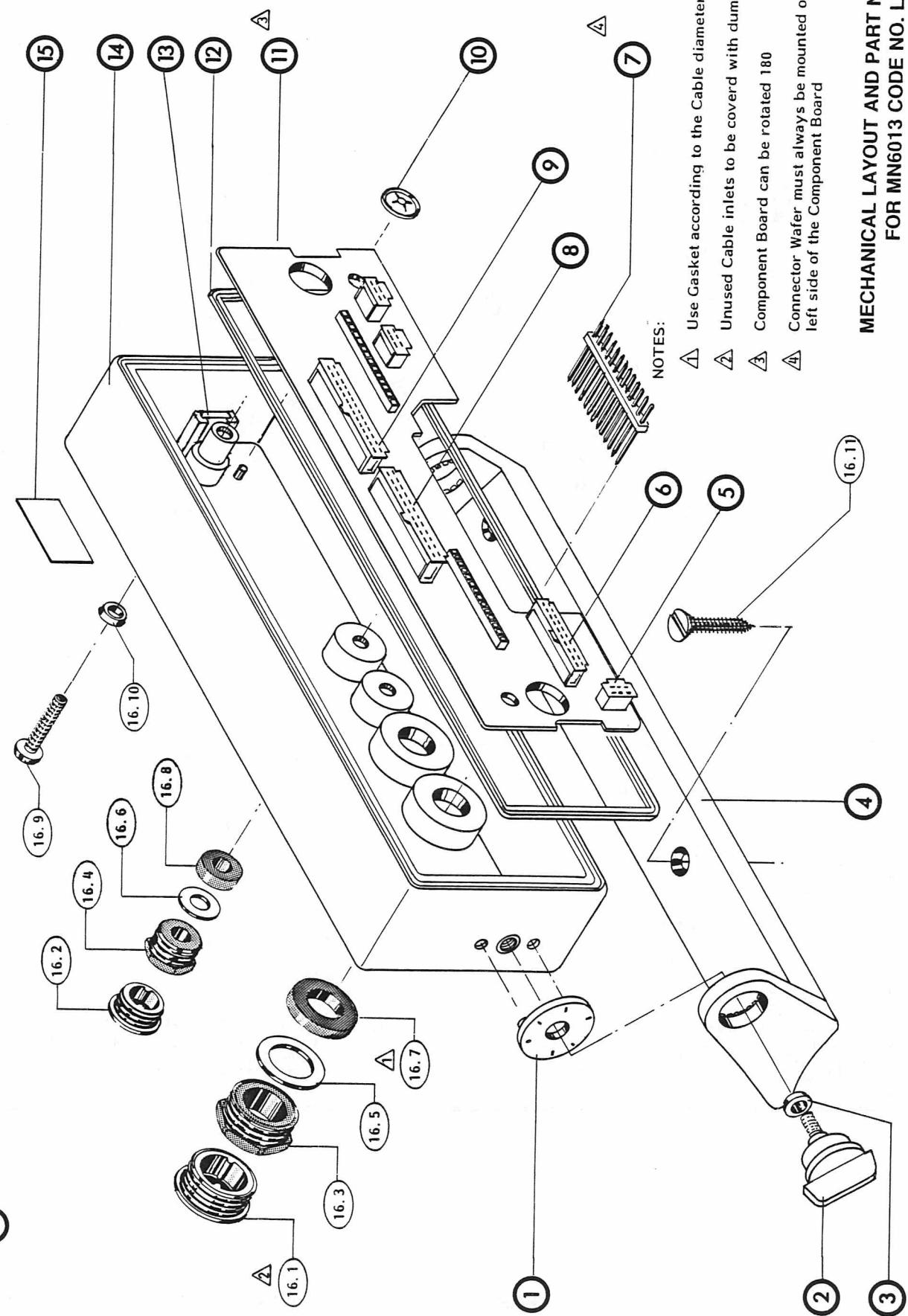
Pos	Code No	Description	Qt
	L856090G1	MN6013 ASSEMBLED	
1	K805970P1	BRACKET	2
2	K805971P1	SCREW THUMB	2
3	J706880P4	WASH SEAL 4.0X 6.86	3
4	K805064G6	SUPPORT ASM	1
5	J708069P203	CONN PWB FEM 03-CKT	3
6	J7U08069P210	CONN PWB FEM 10-CKT	1
7	J710159P3	CONNECTOR WAFER	1
8	J708069P212	CONN PWB FEM 12-CKT	1
9	J708069P214	CONN PWB FEM 14-CKT	1
10	J710081P1	NUT PUSH-ON	2
11	M906413G1	COMPONENT BD JUNCTION	1
12	L856047P1	GASKET	1
13	J710621P1	NUT SQ M-4X8X2.7	2
14	M906432P1	HOUSING	1
15	J706307P81	NAME PLATE MN 6013	1

Pos	Code No	Description	Qt
16	J710606G1	MN 6013 MOUNTING KIT	1
16.1	K805214P1	DUMMY PLUG	1
16.2	K805215P1	DUMMY PLUG	3
16.3	K805208P1	BUSHING	2
16.4	J706897P1	BUSHING	3
16.5	J706845P2	WASHER	2
16.6	J706845P1	WASHER	3
16.7	J706846P1	GASKET	1
	J706846P2	GASKET	2
	J706846P3	GASKET	1
	J706846P4	GASKET	1
	J706846P6	GASKET	1
16.8	J706846P5	GASKET	2
	J706846P7	GASKET	1
16.9	J707099P420	SCR SOC HD M-4.0X20	2
16.10	J706880P4	WASH SEAL 4.0X 6.86	2
16.11	J710450P509	SCR FLAT HD D-4.2X22.0	4
17	K806118P1	PLATE DAMPER	1

MECHANICAL PART NUMBERS AND MOUNTING INSTR. J711246P1
FOR MN6013

M405.393/4

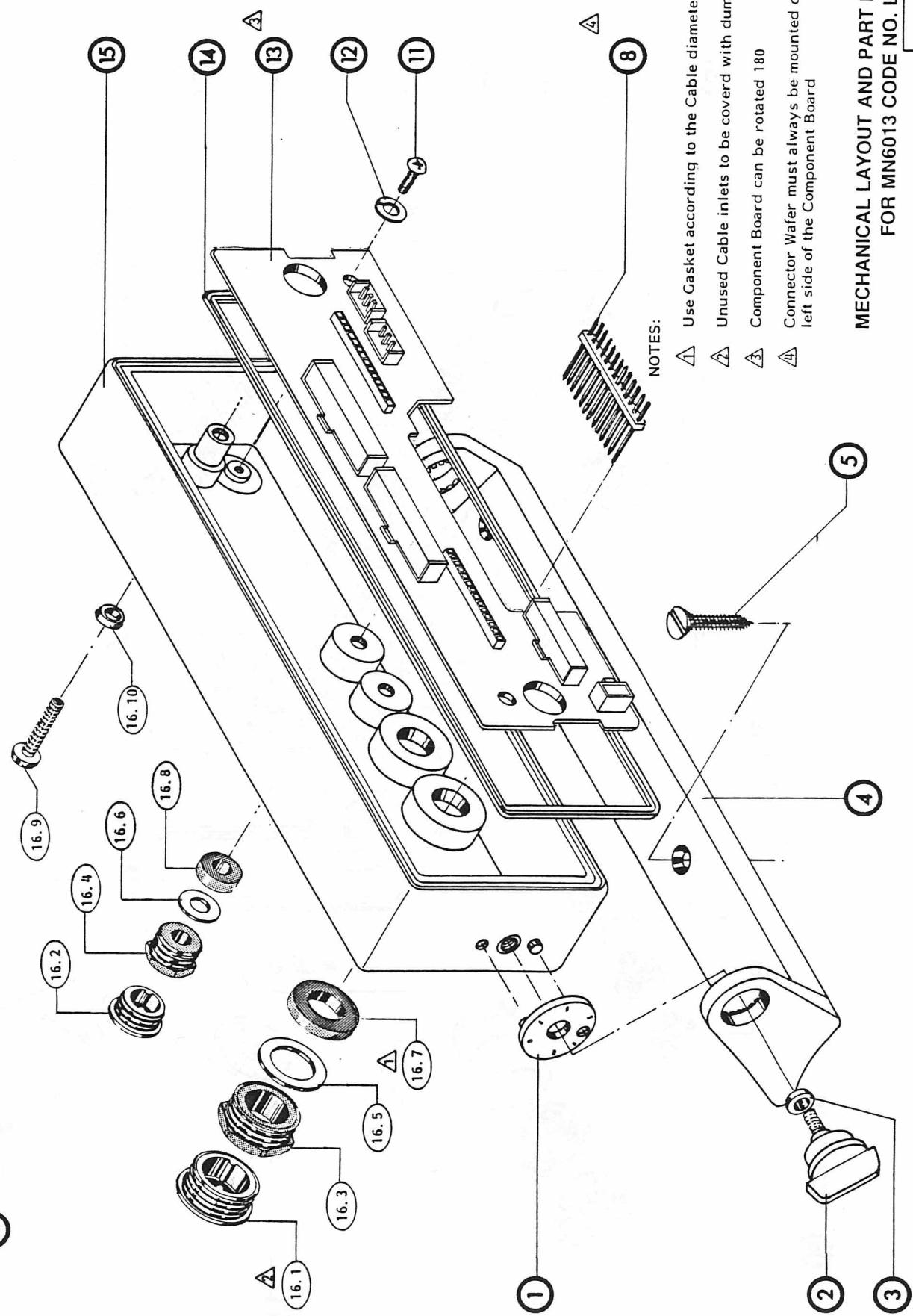
MOUNTING KIT



**MECHANICAL LAYOUT AND PART NUMBERS
FOR MN6013 CODE NO. L856090G1**

M405 /3

MOUNTING KIT



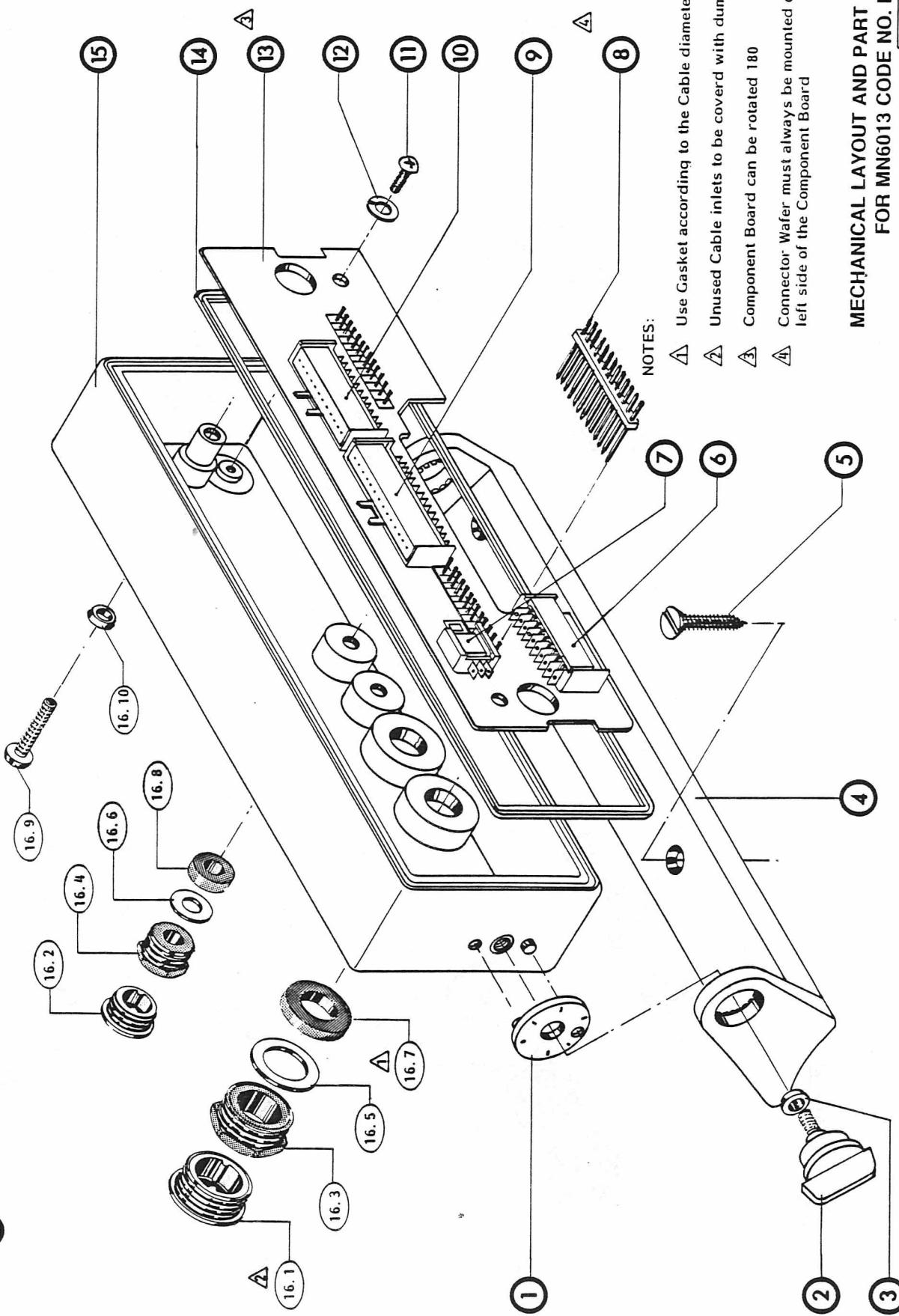
NOTES:

- 1 Use Gasket according to the Cable diameter
- 2 Unused Cable inlets to be cover with dummy Plugs
- 3 Component Board can be rotated 180
- 4 Connector Wafer must always be mounted on the left side of the Component Board

MECHANICAL LAYOUT AND PART NUMBERS
FOR MN6013 CODE NO. L856090G1

M405.393/2

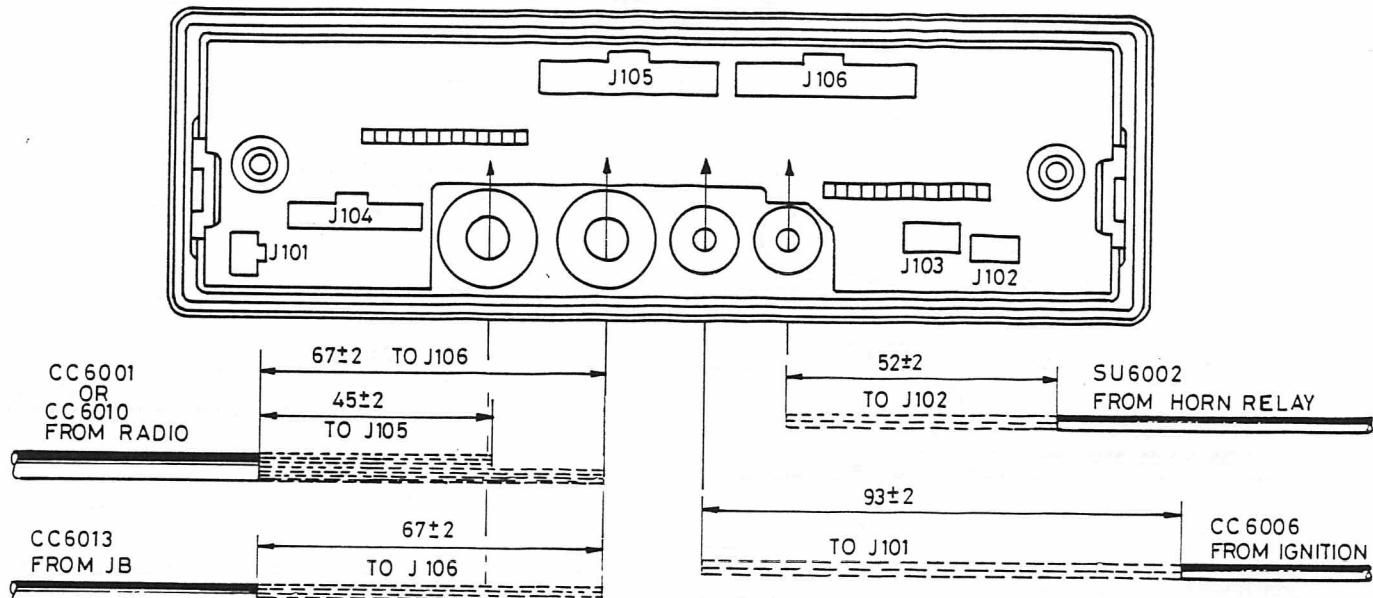
16 MOUNTING KIT



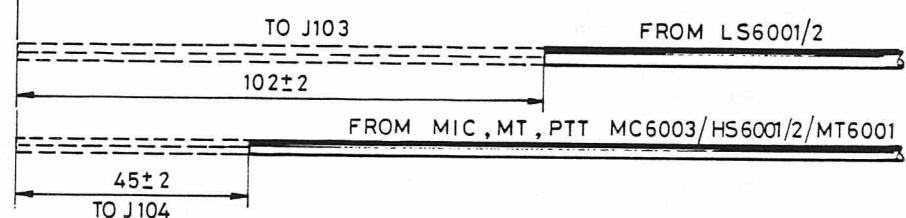
**MECHANICAL LAYOUT AND PART NUMBERS
FOR MN6013 CODE NO. L85609G1**

M40F

3


Colour abbreviations:

WH	WHITE
BN	BROWN
RD	RED
YW	YELLOW
VT	VIOLET
BL	BLUE
GY	GREY
GN	GREEN
OR	ORANGE
BK	BLACK


CC6001/6010

J106			J105		
Pin	Function	Colour	Pin	Function	Colour
14	NC		12	IGNITION SWITCH	BN/BK
13	SIGNAL GND	WH/RD	11	CAR RADIO MUTE (NC)	WH/BK
12	PTT	WH/YW	10	HORN RELAY	WH
11	LS-	VT	9	TONE/EMERGENCY /5V	BN/GN
10	LS +	BL	8	HOOK SWITCH	BN/BL
9	MIC HI	WH/BN	7	TX LINE (NC)	BN/OR
8	PROCESSED RX	GY	6	RX LINE (NC)	BN/RD
7	ON/OFF RESET	WH/GY	5	SPARE (NC)	
6	BUS REQ	BN/YW	4	BATT + (NC)	
5	BUS DATA	WH/VT	3	NC	
4	BUS DIR	WH/BL	2	BATT GND	GN
3	+ SV REF	WH/GN	1	NC	
2	BATT - (GND)	OR			
1	BATT + (13 V)	BN			

CC6013

J106		
Pin	Function	Colour
14	NC	
13	SIGNAL GND	RD
12	PTT	WH/YW
11	LS -	VT
10	LS +	BL
9	MIC HI	WH/BN
8	PROCESSED RX	GY
7	ON/OFF RESET	WH/GY
6	BUS REQ	YW
5	BUS DATA	WH
4	BUS DIR	OR
3	+ 5 V REF	WH/GN
2	BATT - (GND)	GN
1	BATT + (13 V)	BK

J101 IGNITION SWITCH		
PIN	Function	Colour
1	IGN	Don't care
2	IGN	Don't care
3	IGN	Don't care

J102		
PIN	Function	Colour
1	HORN RELAY	RED
2	BATT +	BROWN
3	NC	

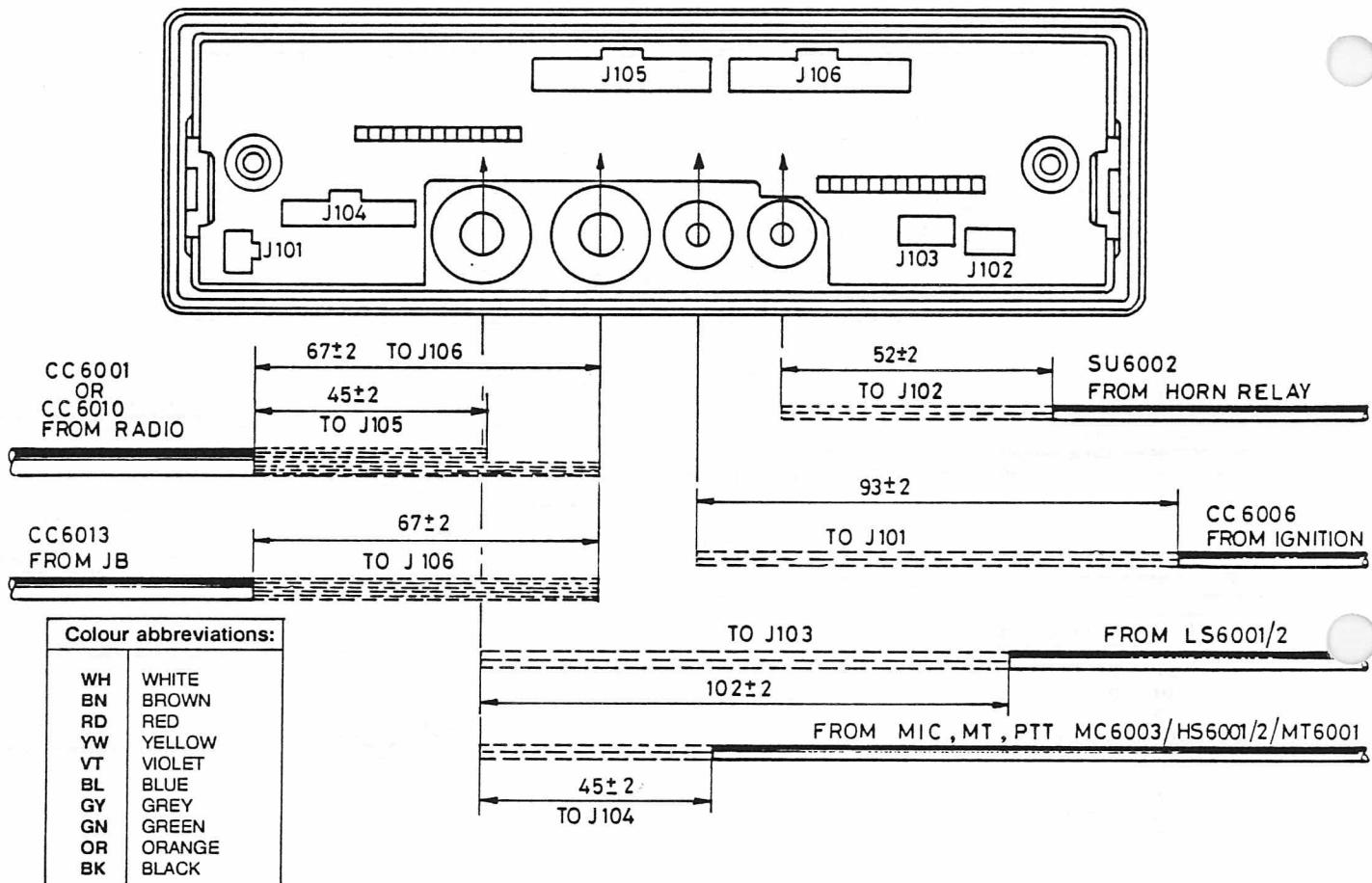
J103		
PIN	Function	Colour
1	NC	
2	LS -	Don't care
3	LS +	Don't care

J104		
PIN	Function	
1*	+5 V/TONE EMERGENCY	
2	PTT	RD
3	SIGN GND	YW
4	LS -	BN
5	LS +	
6	HOOK SWITCH	OR
7	BATT GND	BL
8	MIC LOW	WH
9	MIC HIGH	GN
10	PROC. RX	BL BN

* Can be selected
on PWB with a strap

WIRE STRIPPING INSTRUCTION
J710851P1 FOR MN6013

M405.431/3



CC6001/6010					
J106			J105		
Pin	Function	Colour	Pin	Function	Colour
14	NC		12	IGNITION SWITCH	BN/BK
13	SIGNAL GND	WH/RD	11	CAR RADIO MUTE (NC)	WH/BK
12	PTT	WH/YW	10	HORN RELAY	WH
11	LS-	VT	9	TONE/EMERGENCY	BN/GN
10	LS +	BL	8	HOOK SWITCH	BN/BL
9	MIC HI	WH/BN	7	TX LINE (NC)	BN/OR
8	PROCESSED RX	GY	6	RX LINE (NC)	BN/RD
7	ON/OFF RESET	WH/GY	5	SPARE (NC)	
6	BUS REQ	BN/YW	4	BATT + (NC)	
5	BUS DATA	WH/VT	3	NC	
4	BUS DIR	WH/BL	2	BATT GND	GN
3	+ SV REF	WH/GN	1	NC	
2	BATT - (GND)	OR			
1	BATT + (13 V)	BN			

CC6013		
J106		
Pin	Function	Colour
14	NC	RD
13	SIGNAL GND	WH/YW
12	PTT	VT
11	LS -	BL
10	LS +	WH/BN
9	MIC HI	GY
8	PROCESSED RX	WH/GY
7	ON/OFF RESET	YW
6	BUS REQ	WH
5	BUS DATA	WH
4	BUS DIR	OR
3	+ 5 V REF	WH/GN
2	BATT - (GND)	GN
1	BATT + (13 V)	BK

J101 IGNITION SWITCH		
PIN	Function	Colour
1	IGN	Don't care
2	IGN	Don't care
3	IGN	Don't care

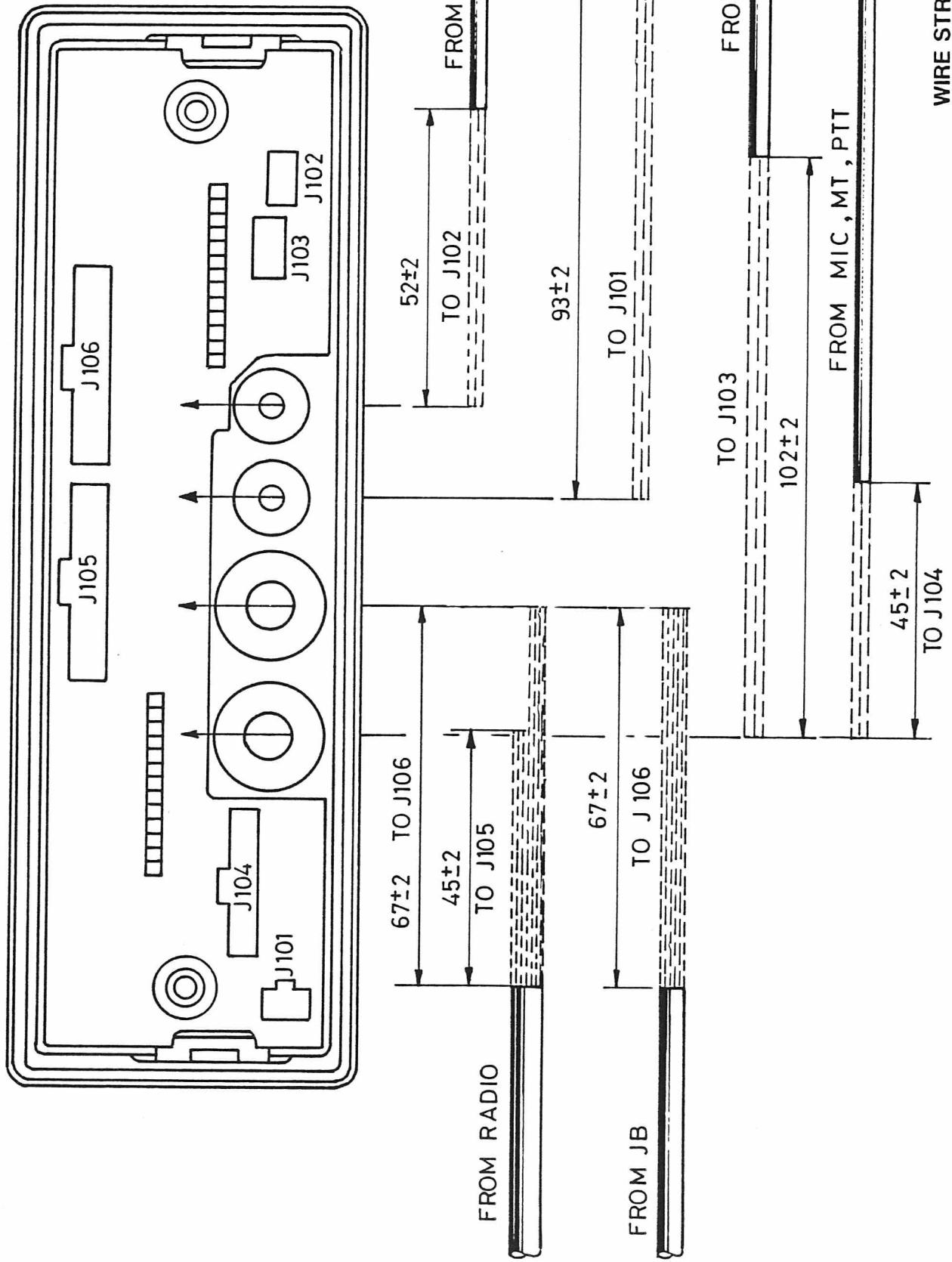
J102		
PIN	Function	Colour
1	HORN RELAY	RED
2	BATT +	BROWN
3	NC	

J103		
PIN	Function	Colour
1	NC	
2	LS -	Don't care
3	LS +	Don't care

J104		MC6003	HS6001/2	MT6001
PIN	Function			
1	+5 V/TONE EMERGENCY			
2	PTT	RD	YW	
3	SIGN GND	BK	BN	RD
4	LS -			YW
5	LS +			RD
6	HOOK SWITCH			BL
7	BATT GND			OR
8	MIC LOW			BL
9	MIC HIGH			BN
10	PROC. RX			

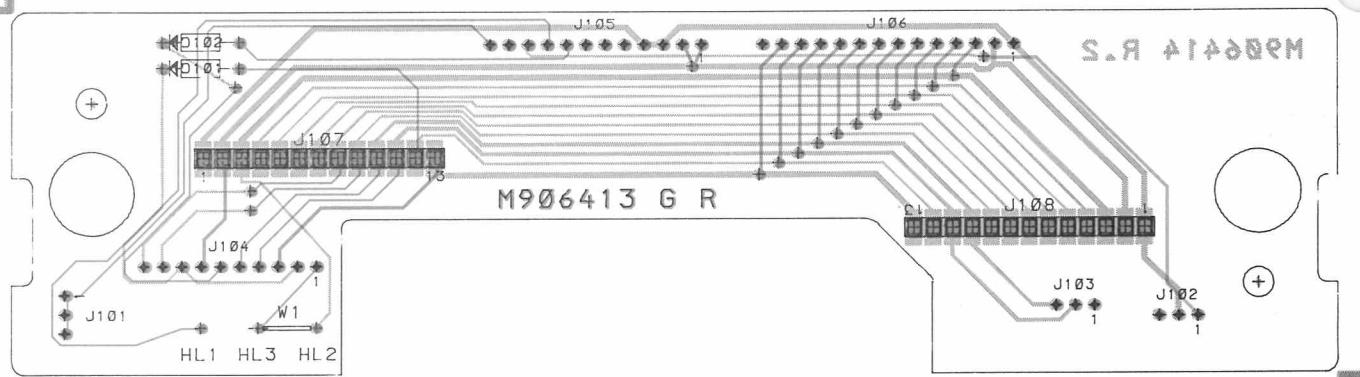
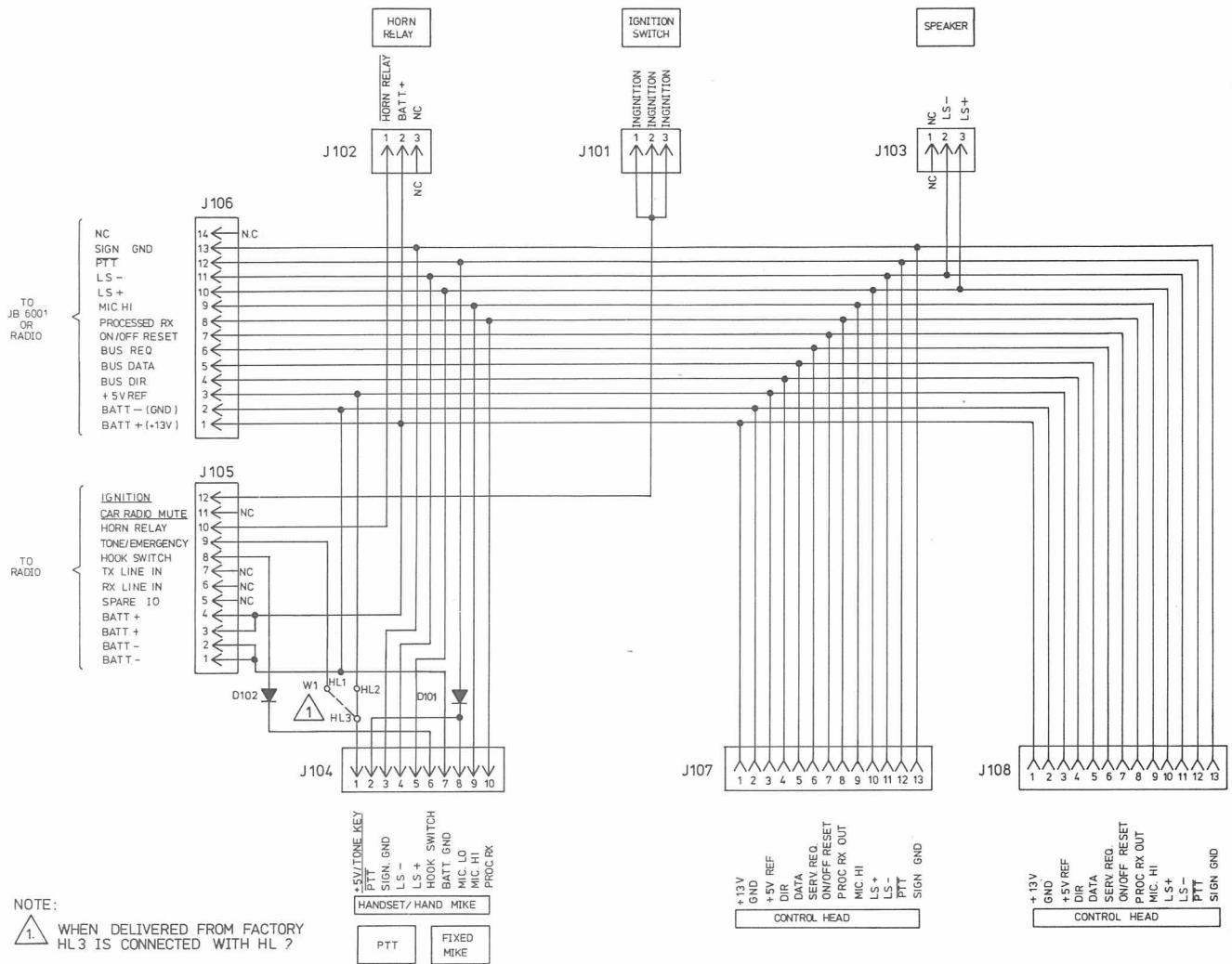
WIRE STRIPPING INSTRUCTIONS
J710851P1 FOR MN6013

M405.431/2



WIRE STRIPPING INSTRUCTION
J710851P1 FOR MN6013

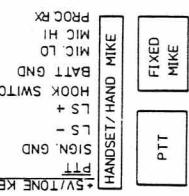
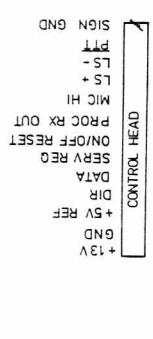
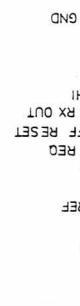
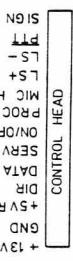
M405.431



JUNCTION BOARD FOR MN601
CODE NO. M906413G1 REV. 2/A **D404.801/3**

JUNCTION BOARD FOR MN6013
CODE NO. M906413G1

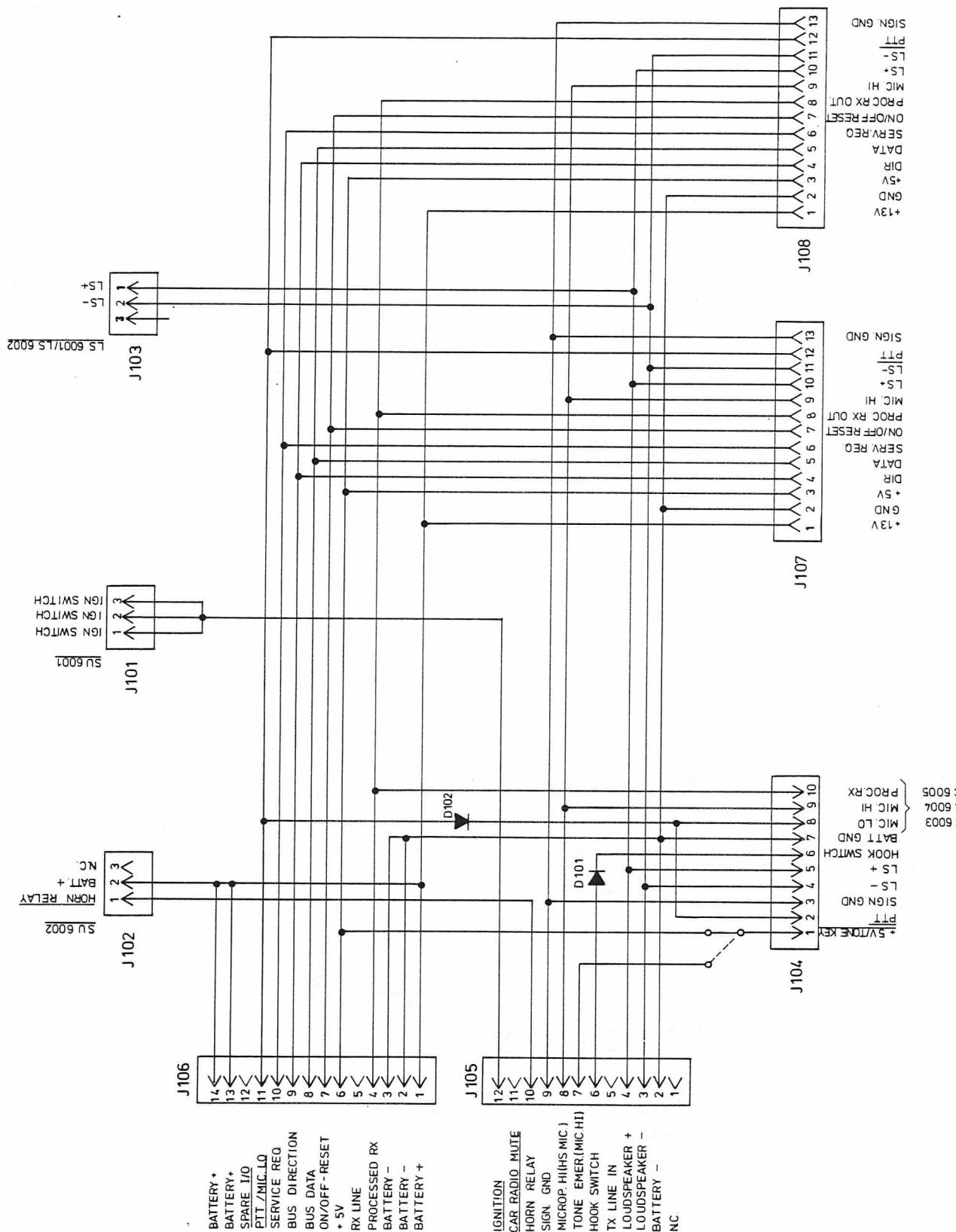
D404.801/2

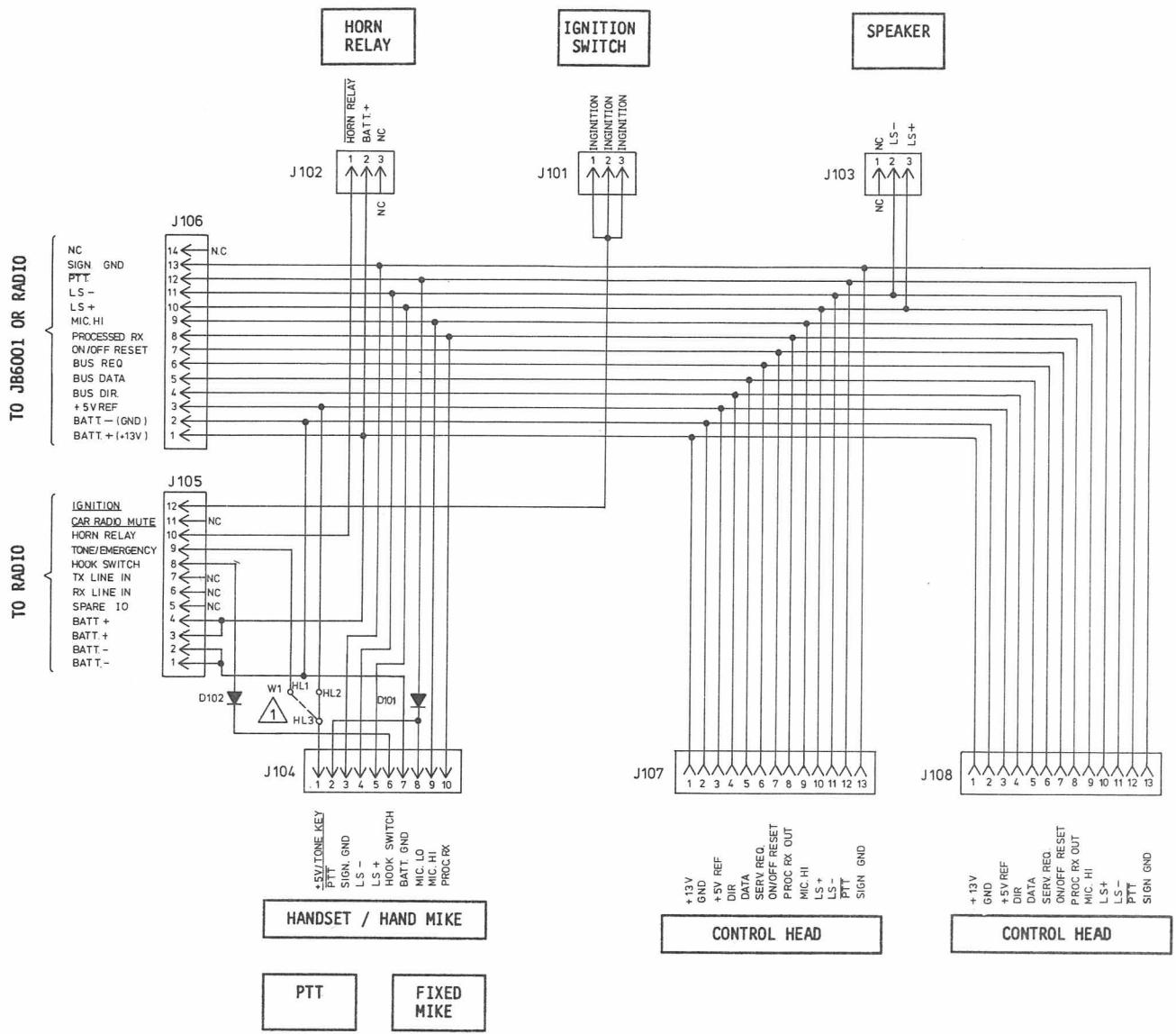


NOTE:
△ WHEN DELIVERED FROM FACTORY
HL3 IS CONNECTED WITH HL2

JUNCTION BOARD FOR MN6013

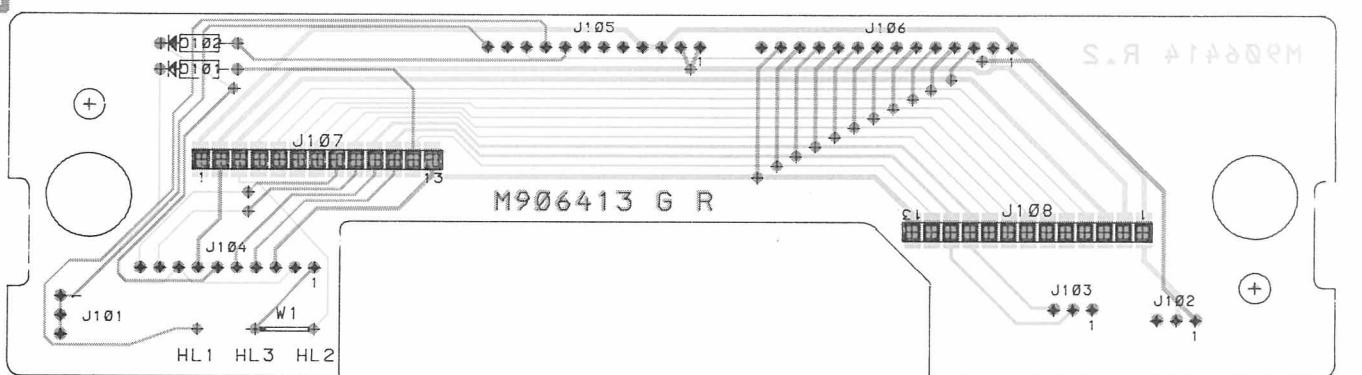
D4 301





NOTE:

1. WHEN DELIVERED FROM FACTORY
HL3 IS CONNECTED WITH HL2



JUNCTION BOARD FOR MN6013
CODE NO. M906413G1 REV. 2/A **D404.801/4**

PARTS LIST FOR JUNCTION BOARD FOR MN6013 : M906413G1 BD REV.2/A

Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
D101	A700028P1	DIO SI SIG 1N4148	1				
D102	A700028P1	DIO SI SIG 1N4148	1				
J101	J708925P1	CONN PT 3 PINS L-9.70MM	1				
J102	J708925P1	CONN PT 3 PINS L-9.70MM	1				
J103	J708925P1	CONN PT 3 PINS L-9.70MM	1				
J104	J708925P1	CONN PT 10 PINS L-9.70MM	1				
J105	J708925P1	CONN PT 12 PINS L-9.70MM	1				
J106	J708925P1	CONN PT 14 PINS L-9.70MM	1				
J107	J710418P63	CONN PWB FEM RECP 13-CKT	1				
J108	J710418P63	CONN PWB FEM RECP 13-CKT	1				
W001	A700133P17	WIRE 0.500 DIA					
0002	M906414P1R2	BOARD PW	1				

DATE: 9/23/1987

Pos	Code No	Description	Qt
D101	A7000028P1	DIO SI SIG 1N4148	1
D102	A7000028P1	DIO SI SIG 1N4148	1
J101	J708068P103	CONN PWB MALE RECP 03-CKT	1
J102	J708068P103	CONN PWB MALE RECP 03-CKT	1
J103	J708068P103	CONN PWB MALE RECP 03-CKT	1
J104	J708068P110	CONN PWB MALE RECP 10-CKT	1
J105	J708068P112	CONN 12PIN MALE SNAP/LOCK	1
J106	J708068P114	CONN PWB MALE RECP 14-CKT	1
J107	J706434P1	CONN PWB FEM RECP	13
J108	J706434P1	CONN PWB FEM RECP	13
	M906414P1R0	BD PW	1

Pos	Code No	Description	Qt
D101	A7000028P1	DIO SI SIG 1N4148	1
D102	A7000028P1	DIO SI SIG 1N4148	1
J101	J708068P103	CONN PWB MALE RECP 03-CKT	1
J102	J708068P103	CONN PWB MALE RECP 03-CKT	1
J103	J708068P103	CONN PWB MALE RECP 03-CKT	1
J104	J708068P110	CONN PWB MALE RECP 10-CKT	1
J105	J708068P112	CONN 12PIN MALE SNAP/LOCK	1
J106	J708068P114	CONN PWB MALE RECP 14-CKT	1
J107	J706434P1	CONN PWB FEM RECP	13
J108	J706434P1	CONN PWB FEM RECP	13
	M906414P1R0	BD PW	1

Pos	Code No	Description	Qt
D101	A7000028P1	DIO SI SIG 1N4148	1
D102	A7000028P1	DIO SI SIG 1N4148	1
J101	J708068P103	CONN PWB MALE RECP 03-CKT	1
J102	J708068P103	CONN PWB MALE RECP 03-CKT	1
J103	J708068P103	CONN PWB MALE RECP 03-CKT	1
J104	J708068P110	CONN PWB MALE RECP 10-CKT	1
J105	J708068P112	CONN 12PIN MALE SNAP/LOCK	1
J106	J708068P114	CONN PWB MALE RECP 14-CKT	1
J107	J706434P1	CONN PWB FEM RECP	13
J108	J706434P1	CONN PWB FEM RECP	13
	M906414P1R0	BD PW	1

DATE: 4/26/1988

Pos	Code No	Description	Qt
D101	A700028P1	DIO SI SIG	1N4148
D102	A700028P1	DIO SI SIG	1N4148
J101	J708925P1	CONN PT 3 PINS	L-9.70MM
J102	J708925P1	CONN PT 3 PINS	L-9.70MM
J103	J708925P1	CONN PT 3 PINS	L-9.70MM
J104	J708925P1	CONN PT 10 PINS	L-9.70MM
J105	J708925P1	CONN PT 12 PINS	L-9.70MM
J106	J708925P1	CONN PT 14 PINS	L-9.70MM
J107	J710418P63	CONN PWB FEM	RECP 13-CKT
J108	J710418P63	CONN PWB FEM	RECP 13-CKT
W001	A700133P17	WIRE	0.500 DIA
	M906414P1R1	BD PW	1

Pos	Code No	Description	Qt
D101	A700028P1	DIO SI SIG	1N4148
D102	A700028P1	DIO SI SIG	1N4148
J101	J708925P1	CONN PT 3 PINS	L-9.70MM
J102	J708925P1	CONN PT 3 PINS	L-9.70MM
J103	J708925P1	CONN PT 3 PINS	L-9.70MM
J104	J708925P1	CONN PT 10 PINS	L-9.70MM
J105	J708925P1	CONN PT 12 PINS	L-9.70MM
J106	J708925P1	CONN PT 14 PINS	L-9.70MM
J107	J710418P63	CONN PWB FEM	RECP 13-CKT
J108	J710418P63	CONN PWB FEM	RECP 13-CKT
W001	A700133P17	WIRE	0.500 DIA
	M906414P1R1	BD PW	1

CHAPTER 7

MICROTELEPHONES

MICROTELEPHONES MT600X :

- MT6001
- MT6002/MT6003
- MT6004/MT6007
- MT6005/MT6006

RECEIVED BY MONSIEUR TOUSSAINT

1867

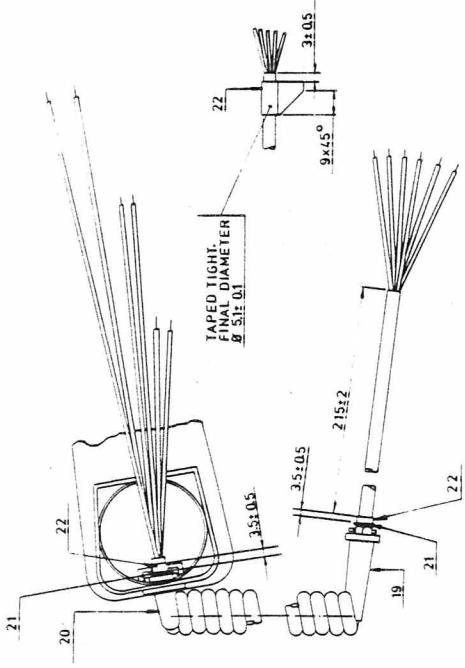
COPIED 2000 LM

2000-03-07

2000-03-07

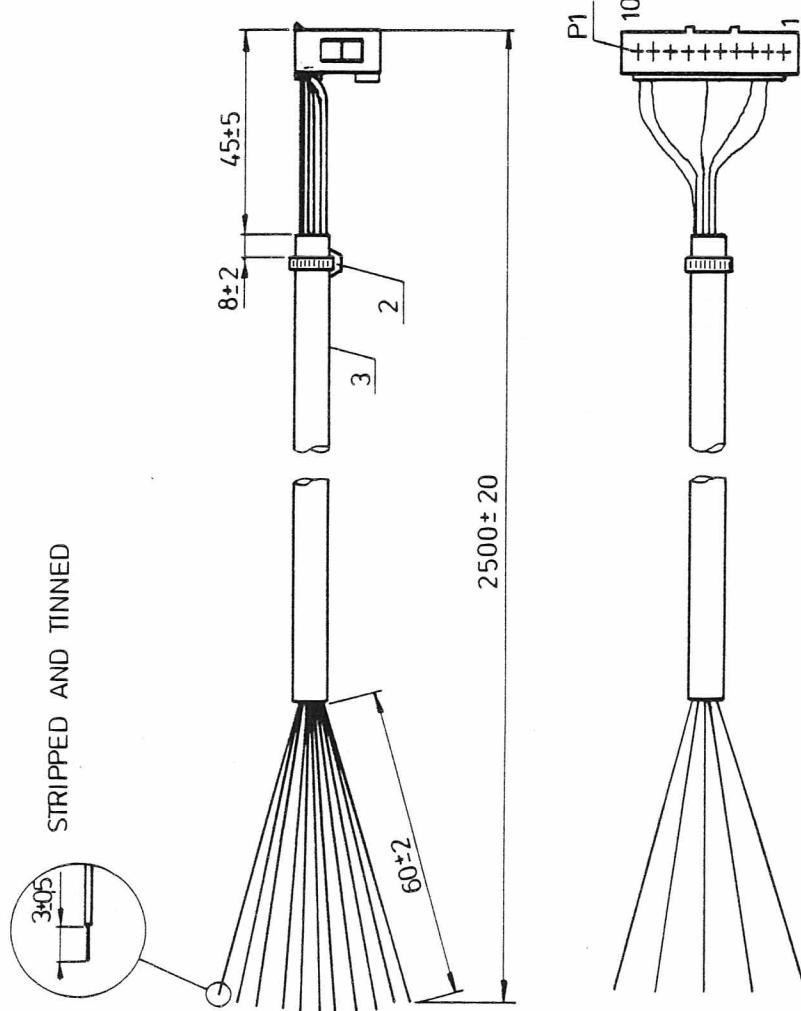
Storno

FIG. W1.



IEC 304 COLOR CODE	IN CONN. GATE NO.
4	2
2	3
3	6
5	CUT

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

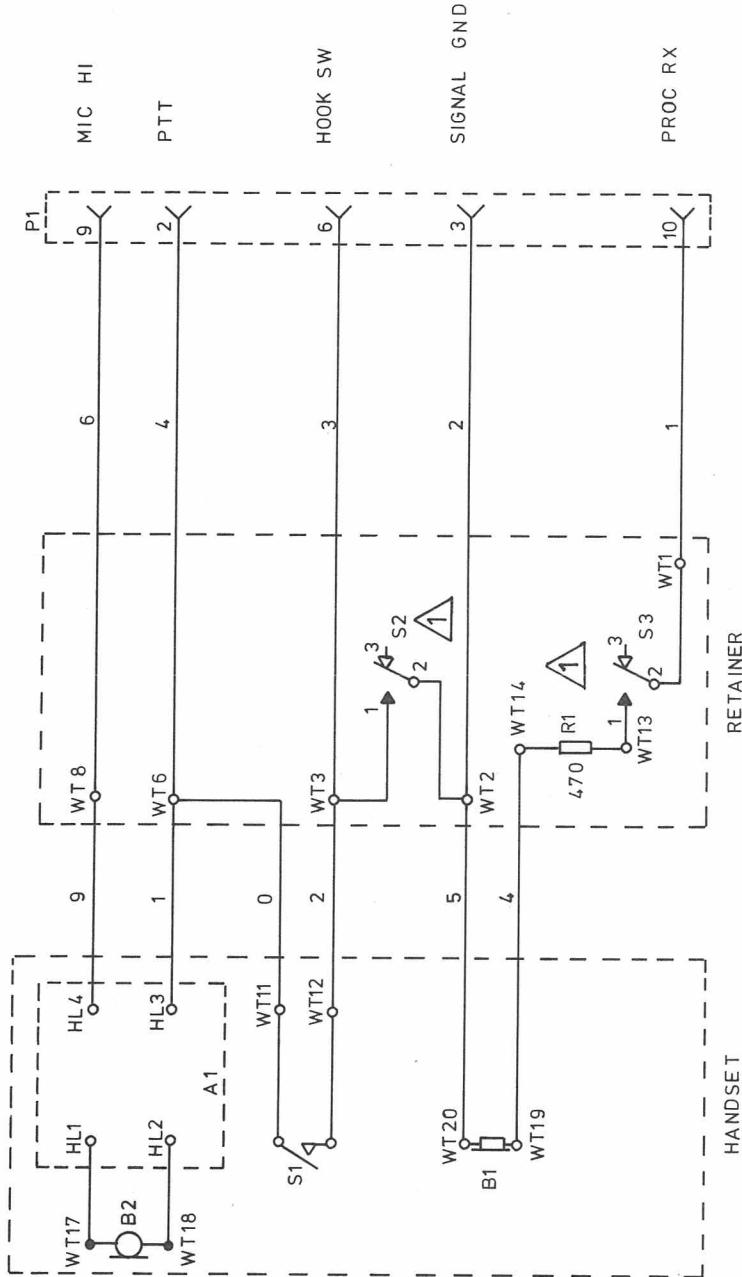


SEE PART LIST X404.309

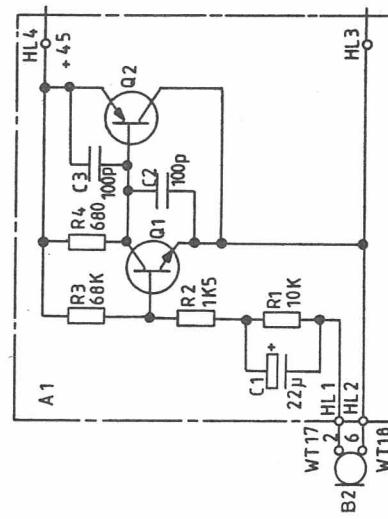
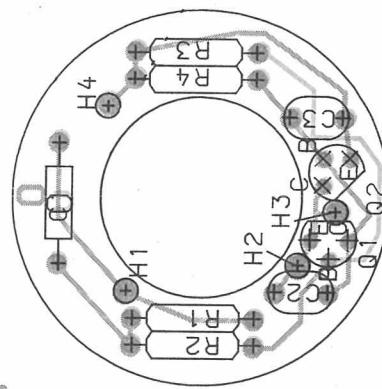
CABLE ASSEMBLY FOR MT6001
CODE NO. K805030G2

M405.268

Storno



COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



HANDSET MT600
AND RETAINER CONNECTIONS

D404.217

NOTE :
△ S2 AND S3 SHOWN WITH HANDSET
IN RETAINER.
IEC 304 COLOR CODES ON WIRES.

ITEM NUMBER	DESCRIPTION
M905140G2	MT 6001 , MICRO TELEPHONE HANDSET
K805070G1	SUB ASM.: ASM BD PW F. MT 600X / C9MT0X
J706182P1	SUB ASM.: SPIRAL CABLE ASM. 06 COND.
K805030G2	SUB ASM.: CABLE ASM F. MT 6001

PARTS LIST :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	K805070G1	ASM BD PW., F. MT600X / C9MT0X 1	(SEE BELOW)
B001	J706194P1	MICROPHONE INS 400R	1
B002	J706194P1	MICROPHONE INS 400R	1
R001	A700019P33	RES DEPC 470R 5% 1/4W	1
W001	J706182P1	SPIRAL CABLE ASM., 06 COND.	1
W002	K805030G2	CABLE ASM., F. MT 6001	1 SEE: PAGE 2
0002	J706073P1	NETTING	2
0003	L855026P1	HOLDER	2
0004	J706074P1	PLATE	1
0005	J706195P1	CASE, HANDSET- 'BLACK'	1
0006	A701268P6	WIRE, 'BLUE'	0,025 M
0007	A701268P2	WIRE, 'RED'	0,025 M
0008	J706195P2	STOWACE FOR 2 SWITCHES	1
0009	J706202P5	NAME PLATE: -MT 6001'	1
0010	A701507P108	SCREW PAN HD SZ4.8X12.7AB	4
0013	A701268P8	WIRE, 'GREY'	0,12 M
0014	A701268P4	WIRE, 'YELLOW'	0,08 M
0016	A701268P2	WIRE, 'RED'	0,15 M
0017	A701268P5	WIRE, 'GREEN'	0,14 M
0019	J706075P1	GROMMET	1
0020	K805023P1	GROMMET	1
0021	J706313P1	RIVET TUBR D=6.0MM, L=9.0MM	2
0022	J706433P1	TAPE ACET WDH=12.7MM	0,10 M
0023	J707335P3	CLAMP LOOP 8 MM	1

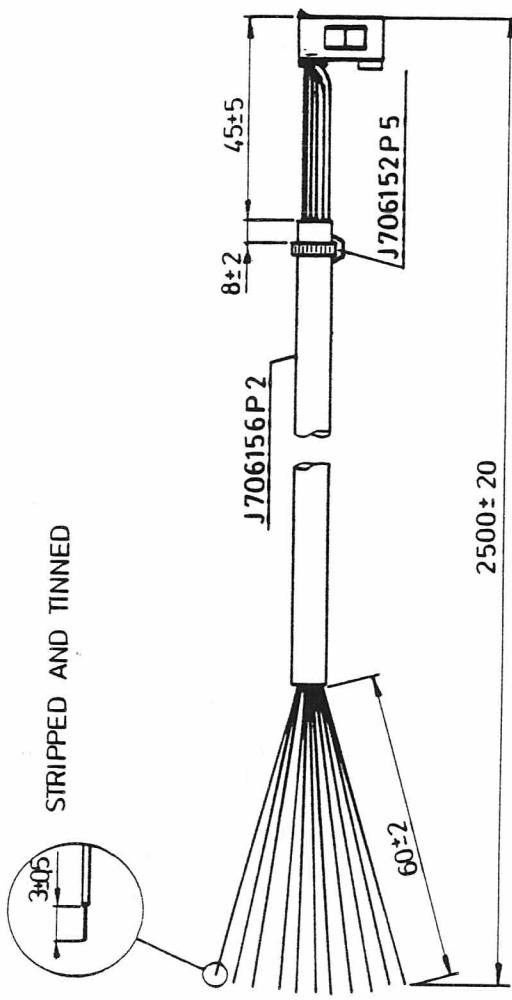
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A001 :	K805070G1 :	ASM BD PW. F. MT 600X / C9MT0X :
C001	B800650P21	CAP TA SOL 2U2 20% 15V
C002	A700233P1	CAP CER CL2 100P 20% 50V
C003	A700233P1	CAP CER CL2 100P 20% 50V
Q001	A700017P1	TSTR NPN SI BC 548A/B
Q002	A700020P1	TSTR PNP SI BC558A/B

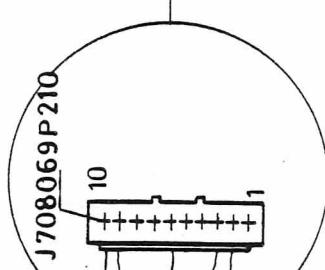
CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
R001	A700019P49	RES DEPC 10K 5% 1/4W	1
R003	A700019P57	RES DEPC 47K 5% 1/4W	1
R004	A700019P35	RES DEPC 680R 5% 1/4W	1
W001	A700184P1	RES WIRE JMPR	1
0002	L855097P1R0	BD PW., REVISION NO.: 0	1
<hr/>			
W002 :	K805030G2 :	CABLE ASM F. MT 6001 :	
P001	J708069P210	CONNECTOR, FEMALE-	1
0002	J706152P5	STRAP RET W BDL D19 NYL	1
0003	J706156P2	CABLE	2,5 M

Storno

Storno



10	+	BN
9	+	BL
8	+	
7	+	
6	+	OR
5	+	
4	+	
3	+	RD
2	+	
1	+	YW



CABLE ASSEMBLY FOR MT6001
CODE NO. K805030G2

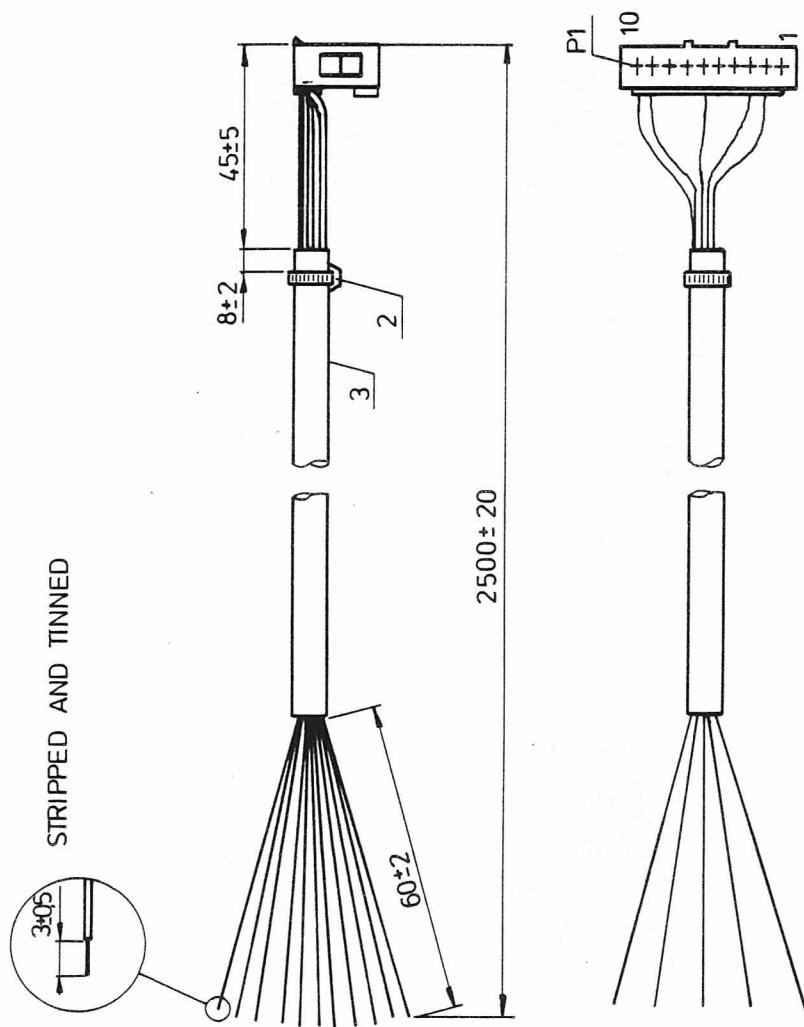
M405. 268/2

Storno

Storno

IEC 304 COLOR CODE	IN CONN GATE NO.
4	2
2	3
3	6
6	9
1	10
5	CUT

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



SEE PART LIST X404.309

CABLE ASSEMBLY FOR MT6001
CODE NO. K805030G2

M 405.268

Storno

Storno

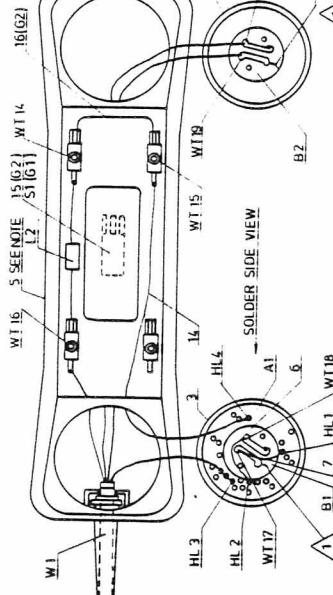
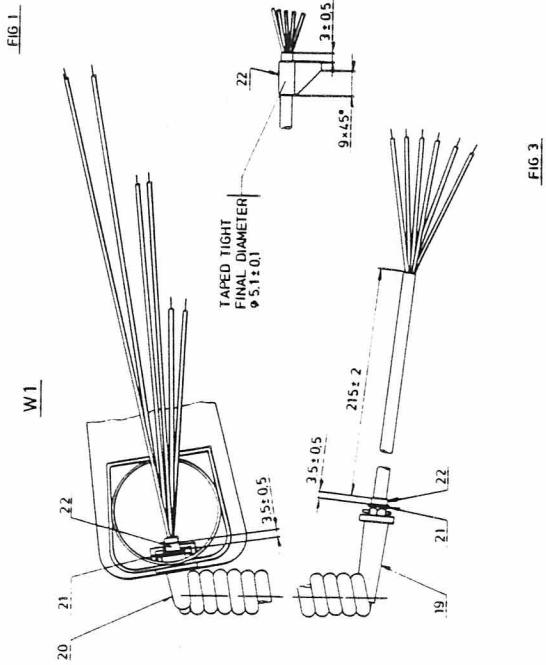
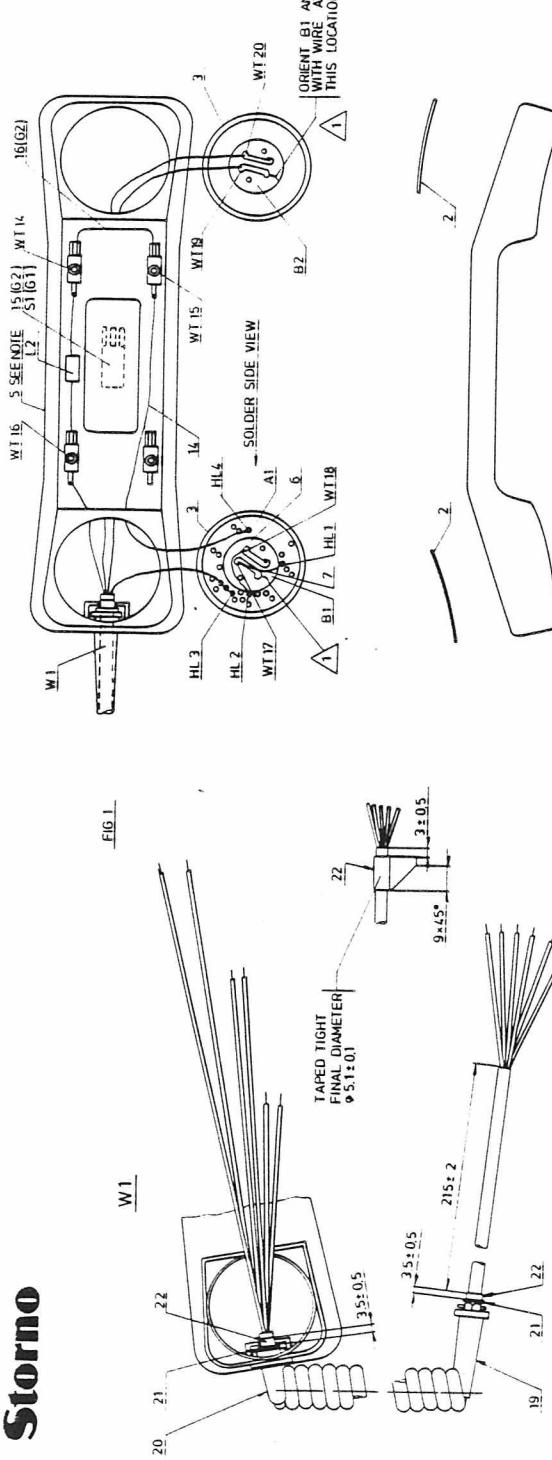


FIG. 4

ASSEMBLY PROCEDURE G.1

- ITEM 5
1 REMOVE TWO SCREWS
- 2 REMOVE SILICONE RUBBER AND FOAM RUBBER
- 3 MOUNT COILED (FIG. 1) ITEM W1 AND REPLACE SILICONE RUBBER AND FOAM RUBBER
- 4 REMOVE GASKETS AND GRIPS
- 5 MOUNT TELEPHONE ITEM B2 AND MICROPHONE ITEM B1 AND PWB ITEM A1 AND TWO HOLDERS ITEM 3, 16 IN W1
- 6 SOLDER WIRES CUT AWAY RED AND WHITE WIRES NOT USED IN W1
- 7 ASSEMBLE THE HOUSING USING 2 SCREWS

ITEM 6

- ITEM 6
1 REMOVE TWO SCREWS
- 2 MOUNT CABLES ITEM W1 AND W2 AND SOLDER
- CUT AWAY WIRES NOT USED IN W2 BROWN, YELLOW, ORANGE
- 3 MOUNT BOTTOM PLATE USING 4 SCREWS
- 4 PUT NAMEPLATE ITEM 9 INTO GROOVE AS SHOWN (FIG. 6)
- 7 ASSEMBLE THE HOUSING USING 2 SCREWS

ASSEMBLY PROCEDURE G.2

- ASSEMBLED AS G.1 EXCEPT THAT S1 IS REPLACED BY A DUMMY ITEM 15 AND ITEM 16 ARE MOUNTED
- ITEM 24 TO BE PACKED SEPARATELY

SEE M405.270 FOR CABLE ASSEMBLY

SEE PART LIST X404.096

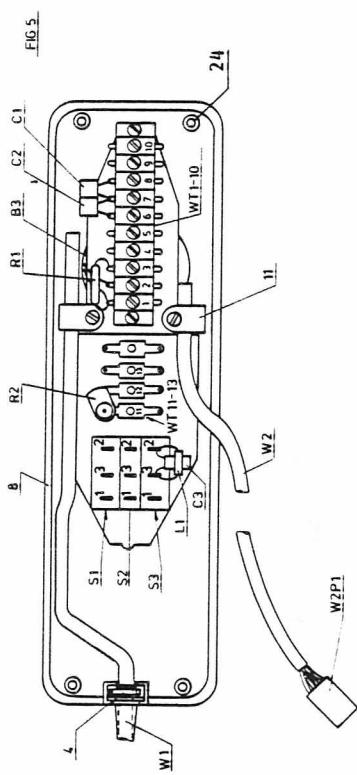
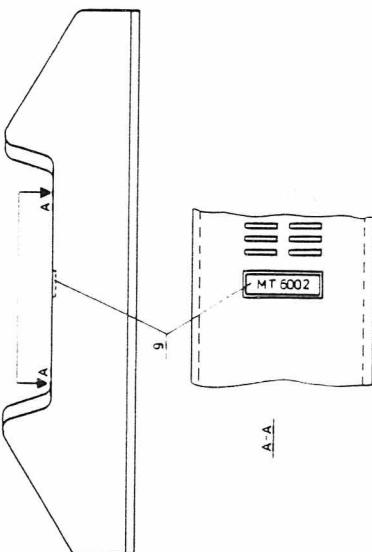


FIG. 5

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

WIRE	FROM	TO	COLOR IEC 304	REMARKS
W1	A1 H1.3	WT7	1	
	W16	WT13	0	
	S3.3	4		
	WT20	W18	5	
	P1.3	WT7	2	
	P1.4	WT2	7	
	P1.5	WT3	6	
	P1.6	S2.2	0	
	P1.7	S2.1	5	
	P1.9	S1.1	9	
	P1.10	WT12	8	
6	A1 H1.2	WT18	6	
7	A1 H1.1	WT17	2	
14	A1 H1.4	WT15	2	
23	S3.1	WT11	8	
12	S1.2	WT13	0	
17	WT13	WT6	0	
B3		W1	6	
		W12	6	

FIG. 6



A-A

MECHANICAL LAYOUT & PART NUMBER
FOR MT6002/3 CODE NO: M906110G1/G2

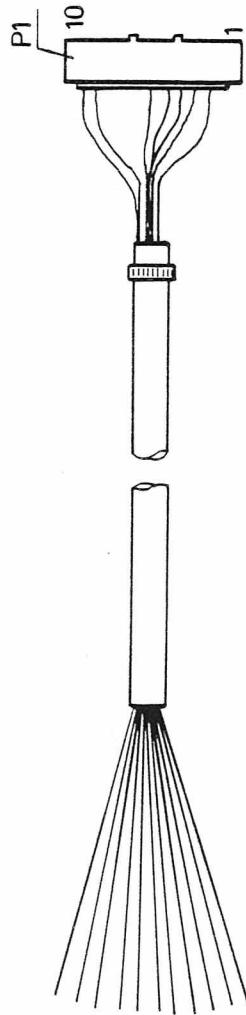
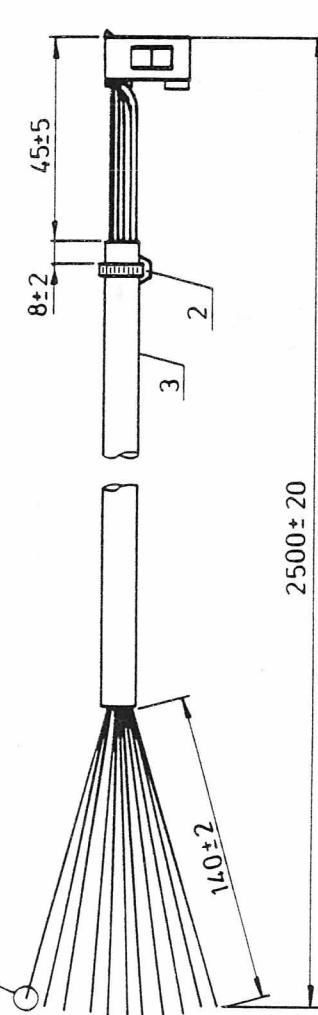
M405. 269

Storno

Storno



STRIPPED AND TINNED



SEE PART LIST X404. 096

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

IEC 304 COLOR CODE	IN CONN. GATE NO.
1	CUT
4	CUT
2	3
7	4
6	5
0	6
5	7
3	CUT
9	9
8	10
91	CUT

CABLE ASSEMBLY FOR MT6002/3
CODE NO. K805030G3

M405. 270

ITEM NUMBER	DESCRIPTION
M906110G1/G2	MT 6002/3 MICR.TELPH. W.KEY

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	K805070G1	ASM BD PW C9MT01 / MT 600X	1 (SEE BELOW)
B001	J706194P1	MICROPHONE INS 400R	1
B002	J706194P1	MICROPHONE INS 400R	1
C001	J707412P12	CAP PYES 330N 10% 63V	1
C002	J707412P12	CAP PYES 330N 10% 63V	1
C003	A700005P8	CAP PYES 15N 10% 50V	1
L001	J707174P1	COIL RF FIX 4700UH 10%	1
L002	J707174P1	COIL RF FIX 4700UH 10%	1
R001	J708851P2	RES W W 10R 10% 2W	1
R002	J706008P1	RES VAR CERM 1K 20% 1/2W	1
W001	J706182P1	CABLE ASSY HANDSET 6COND	1
W002	K805030G3	CABLE ASM MT 6002/6003	1 (SEE BELOW)
0002	J706073P1	NETTING	2
0003	L855026P1	HOLDER	2
0004	J706074P1	PLATE	1
0005	J706195P1	HANDSET CASE BARE BLACK	1
0006	A701268P6	WIRE BLUE	0.025 M
0007	A701268P2	WIRE RED	0.025 M
0008	J706195P3	STOWACE FOR HANDSET	1
0009	J706202P9/P10	NAME PLATE MT 6002/6003	1
0011	J707335P3	CLAMP LOOP 8 MM	1
0012	A701268P10	WIRE BLACK	0.070 M
0014	A701268P2	WIRE RED	0.20 M
0015	J707206P1	COV. BLIND FOR MT6003	1
0016	A701268P10	WIRE BLACK FOR MT6003	0.10 M
0017	A701268P10	WIRE BLACK	0.10 M
0019	J706075P1	GROMMET	1
0020	K805023P1	GROMMET	1
0021	J706313P1	RIVET TUBR D=6.0 ,L=9.0	1
0022	J706433P1	TAPE ACET WDH=12.7MM	0.10 M
0023	A701268P8	WIRE GRAY	0.070 M
0024	A701507P108	SCREW PAN HD SZ4.8X12.7AB	4

A001 :	K805070G1 :	ASM BD PW C9MT01 / MT 600X :
--------	-------------	------------------------------

C001	B800650P21	CAP TA SOL 2U2 20% 15V	1
C002	A700233P1	CAP CER CL2 100P 20% 50V	1
C003	A700233P1	CAP CER CL2 100P 20% 50V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
Q001	A700017P1	TSTR NPN SI BC 548A/B	1
Q002	A700020P1	TSTR PNP SI BC558A/B	1
R001	A700019P49	RES DEPC 10K 5% 1/4W	1
R003	A700019P57	RES DEPC 47K 5% 1/4W	1
R004	A700019P35	RES DEPC 680R 5% 1/4W	1
W001	A700184P1	RES WIRE JMPR	1
0002	L855097P1R0	BD PW., REVISION NO.: 0	1
<hr/>			
W002 :	K805030G3 :	CABLE ASM MT 6002 :	
<hr/>			
P001	J708069P210	CONNECTOR FEMALE	1
0002	J706152P5	STRAP RET., W. BDL D19 NYL.	1
0003	L706156P3	CABLE	2.50 M

ITEM NUMBER	DESCRIPTION
M906110G1	MT 6002, MICR.TELPH. W.KEY

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	K805070G1	ASM BD PW C9MT01 / MT 600X	1 (SEE BELOW)
B001	J706194P1	MICROPHONE INS 400R	1
B002	J706194P1	MICROPHONE INS 400R	1
C001	J707412P12	CAP PYES 330N 10% 63V	1
C002	J707412P12	CAP PYES 330N 10% 63V	1
C003	A700005P8	CAP PYES 15N 10% 50V	1
L001	J707174P1	COIL RF FIX 4700UH 10%	1
L002	J707174P1	COIL RF FIX 4700UH 10%	1
R001	J708851P2	RES W W 10R 10% 2W	1
R002	J706008P1	RES VAR CERM 1K 20% 1/2W	1
W001	J706182P1	CABLE ASSY HANDSET 6COND	1
W002	K805030G3	CABLE ASM MT 6002	1 (SEE BELOW)
0002	J706073P1	NETTING	2
0003	L855026P1	HOLDER	2
0004	J706074P1	PLATE	1
0005	J706195P1	HANDSET CASE BARE BLACK	1
0006	A701268P6	WIRE BLUE	0.025 M
0007	A701268P2	WIRE RED	0.025 M
0008	J706195P3	STOWACE FOR HANDSET	1
0009	J706202P9	NAME PLATE MT 6002	1
0011	J707335P3	CLAMP LOOP 8 MM	1
0012	A701268P10	WIRE BLACK	0.070 M
0014	A701268P2	WIRE RED	0.20 M
0017	A701268P10	WIRE BLACK	0.10 M
0019	J706075P1 09024/12No{	GROMMET	1
0020	K805023P1	GROMMET	1
0021	J706313P1-	RIVET TUBR D=6.0, L=9.0	1
0022	J706433P1-	TAPE ACET WDH=12.7MM	0.10 M
0023	A701268P8	WIRE GRAY	0.070 M
0024	A701507P108	SCREW PAN HD SZ4.8X12.7AB	4

A001 : K805070G1 : ASM BD PW C9MT01 / MT 600X :

C001	B800650P21	CAP TA SOL 2U2 20% 15V	1
C002	A700233P1	CAP CER CL2 100P 20% 50V	1
C003	A700233P1	CAP CER CL2 100P 20% 50V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
------------------	-----------------------	-----------------------	----------

Q001	A700017P1	TSTR NPN SI BC 548A/B	1
Q002	A700020P1	TSTR PNP SI BC558A/B	1

R001	A700019P49	RES DEPC 10K 5% 1/4W	1
R003	A700019P57	RES DEPC 47K 5% 1/4W	1
R004	A700019P35	RES DEPC 680R 5% 1/4W	1

W001	A700184P1	RES WIRE JMPR	1
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0002	L855097P1R0	BD PW., REVISION NO.: 0	1
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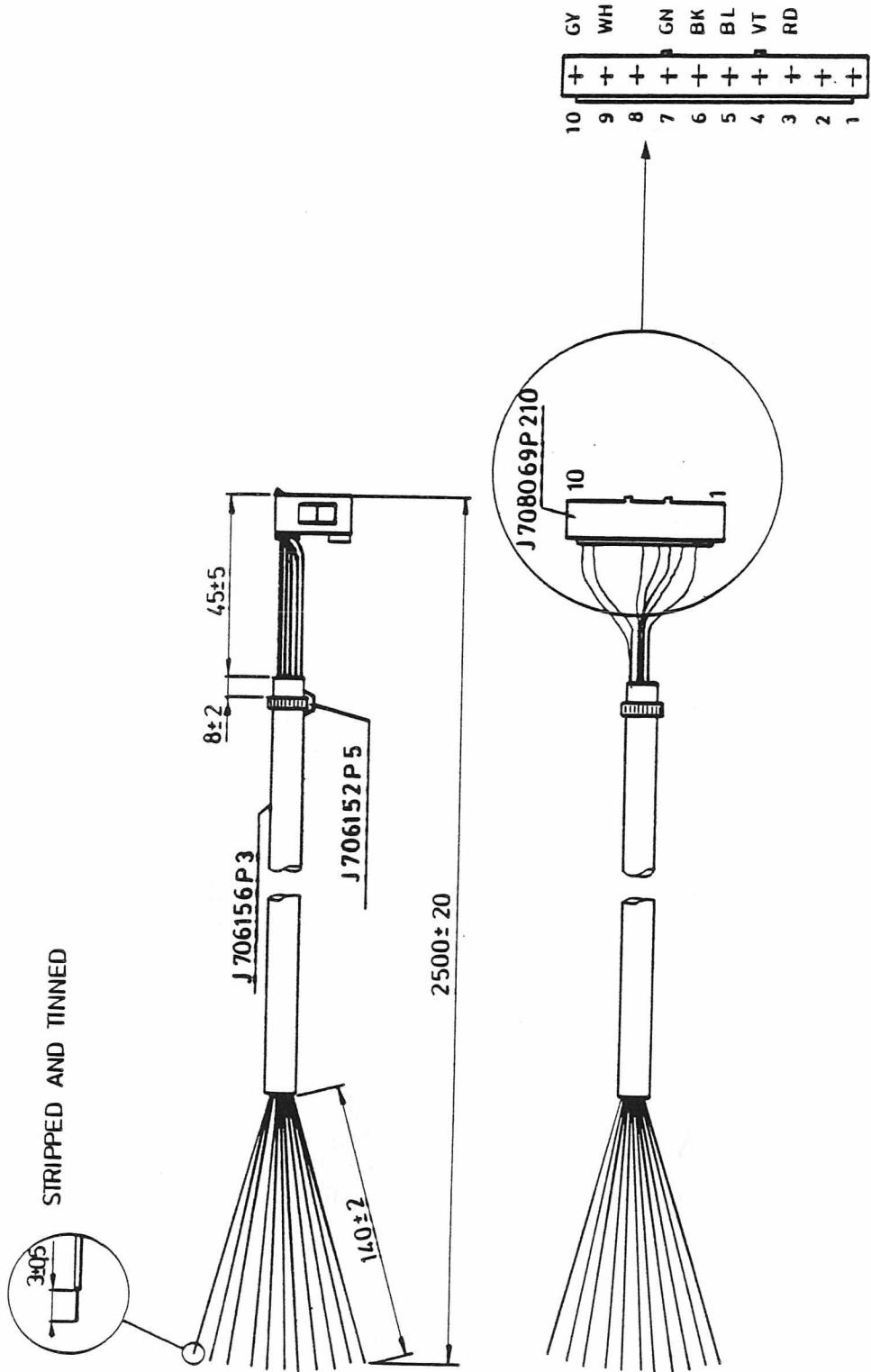
W002 :	K805030G3 :	CABLE ASM MT 6002 :
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P001	J708069P210	CONNECTOR FEMALE	1
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0002	J706152P5	STRAP RET., W. BDL D19 NYL.	1
0003	L706156P3	CABLE	2.50 M

CABLE ASSEMBLY FOR MT6002/3
CODE NO. K805030G3

M405. 270/2

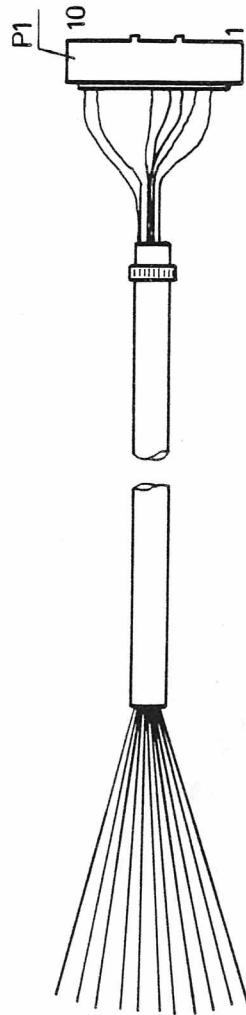
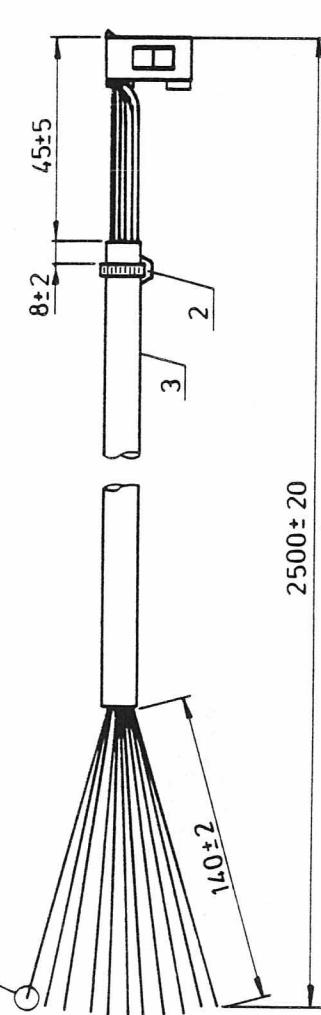


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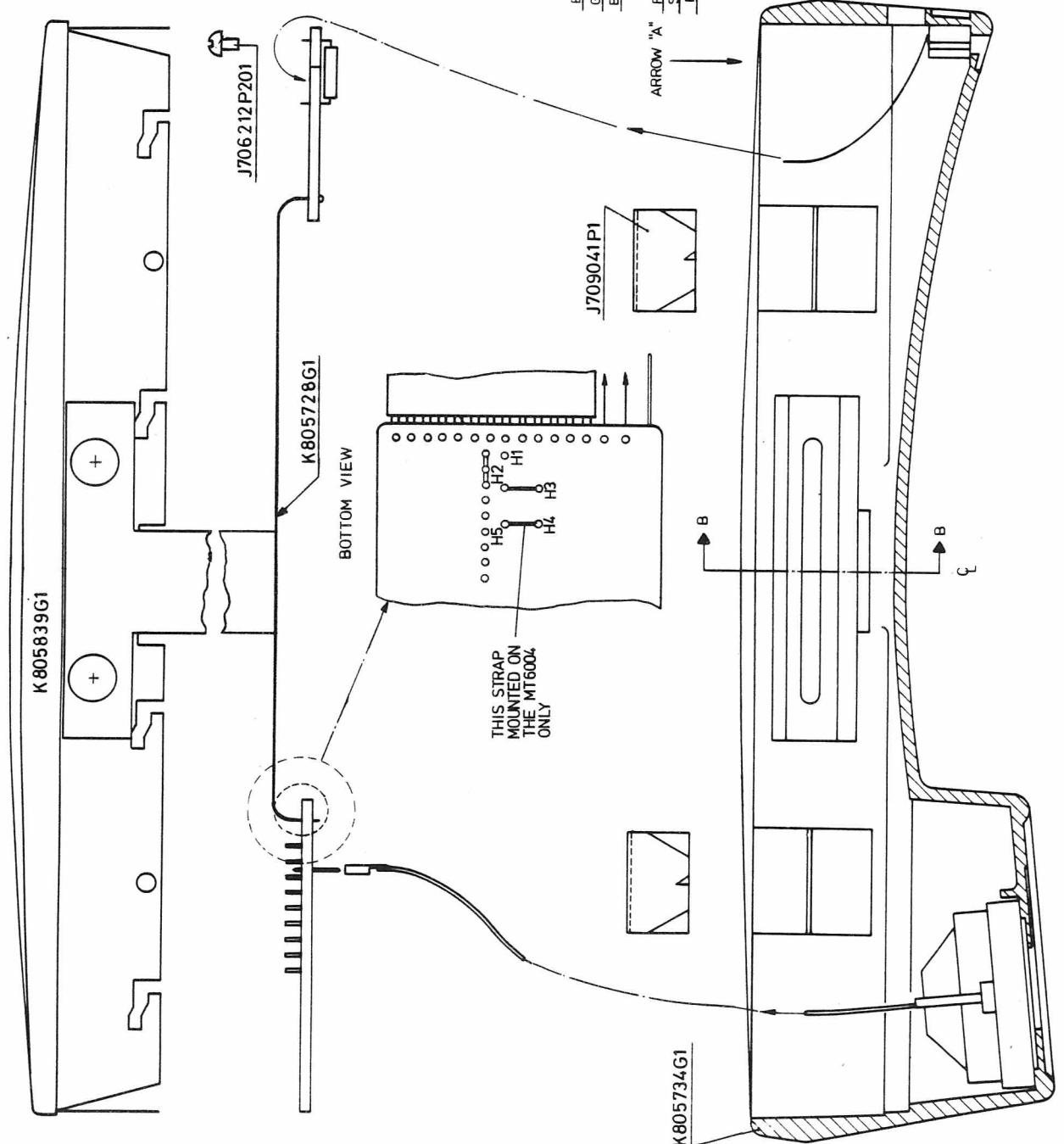
SEE PART LIST X404. 096

IEC 304 COLOR CODE	IN CONN GATE NO
1	CUT
4	CUT
2	3
7	4
6	5
0	6
5	7
3	CUT
9	9
8	10
91	CUT

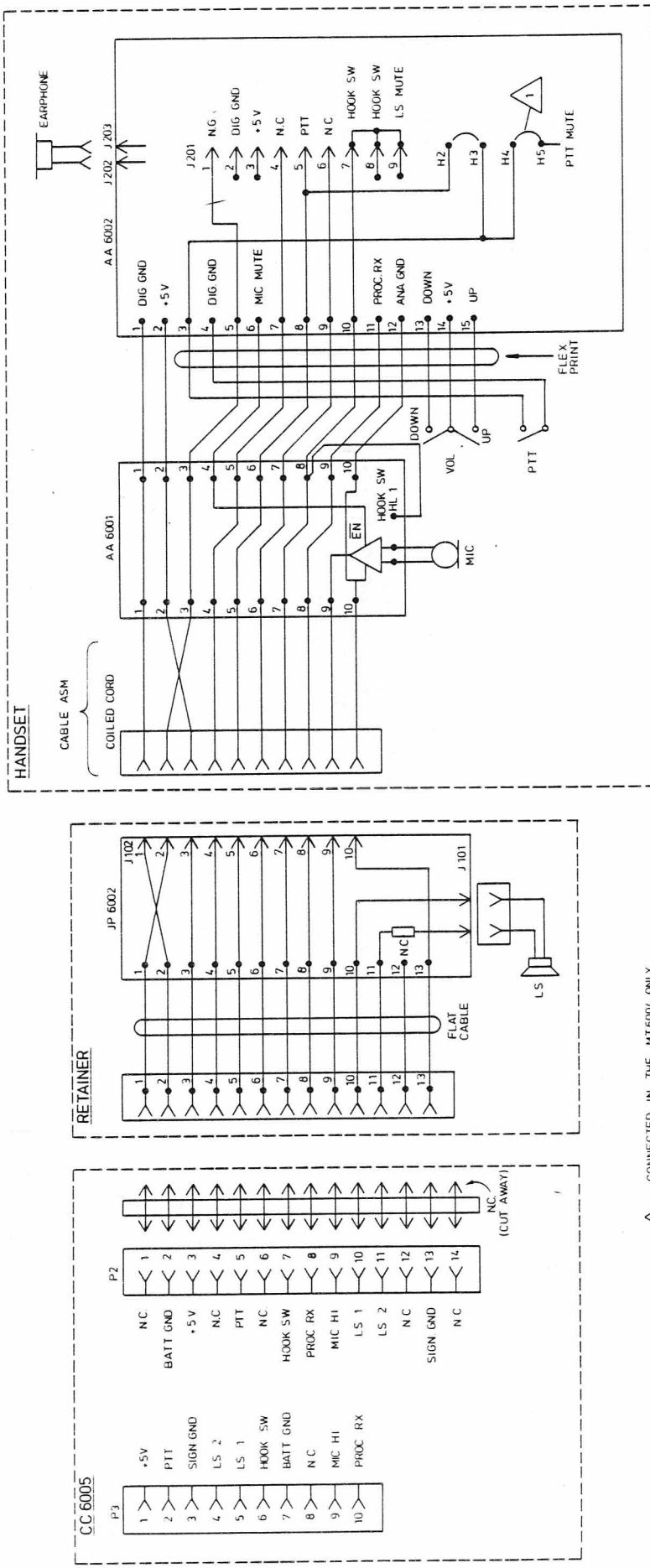
COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

CABLE ASSEMBLY FOR MT6002/3
CODE NO. K805030G3

M407 270



CODE NO. M906205G1 MT6004
 CODE NO. M906205G2 MT6007
 HANDSET ASSEMBLY FOR MT6004/7
 M405. 290/4



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INTERCONNECTION DIAGRAM FOR MT6004/6007

D404.459

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FIG. 1

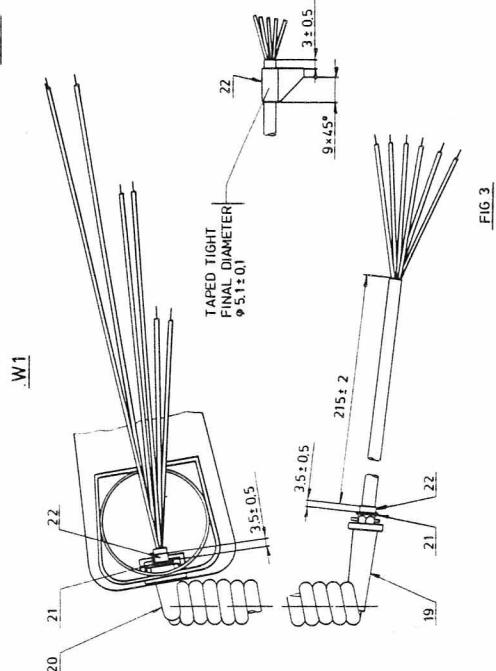
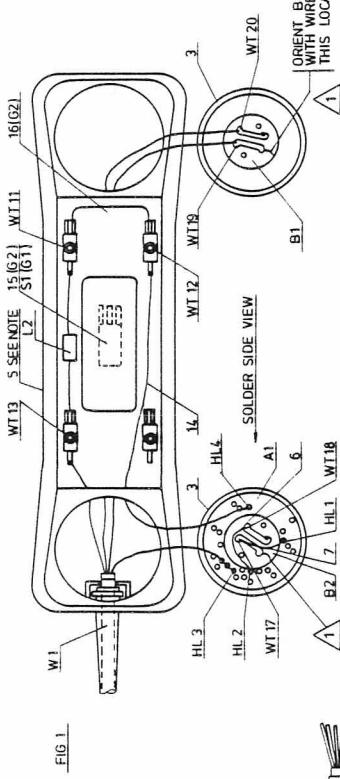


FIG. 1

ASSEMBLY PROCEDURE G1

1. REMOVE TWO SCREWS.
2. REMOVE SILICONE RUBBER AND FOAM RUBBER.
3. MOUNT CORD IF G11 ITEM W1 AND REPLACE SILICONE RUBBER AND FOAM RUBBER.
4. REMOVE GASKETS AND GRILLS AND MOUNT NETS (IF G4) ITEM 2.
5. MOUNT TELEPHONE ITEM B1 AND ITEM 4 MICROPHONE ITEM B2.
6. SOLDER WIRES A1 AND TWO HOLDERS ITEM 3.
7. INSIDE WIRES CUT AWAY RED AND WHITE WIRES NOT USED.
8. ASSEMBLE THE HOUSING USING 2 SCREWS.

ITEM 5

1. REMOVE FOUR SCREWS AND BOTTOM PLATE.
2. MOUNT CABLES ITEM W1 AND W2 AND SOLDER.
3. MOUNT CABLES ITEM W1 AND W2 AND SOLDER.
4. REPLACE DASHES A DURMI ITEM 15 AND ITEM 16 ARE MOUNTED.
5. PUT NAMEPLATE ITEM 9 INTO GROOVE AS SHOWN (FIG. 6).

- ASSEMBLY PROCEDURE G2.
1. REMOVE 4 SCREWS AND BOTTOM PLATE.
 2. MOUNT CABLES ITEM W1 AND W2 AND SOLDER.
 3. MOUNT BOTTOM PLATE USING 4 SCREWS.

- NOTE:
1. ITEM 20 TO BE PACKED SEPARATELY.

FIG. 5

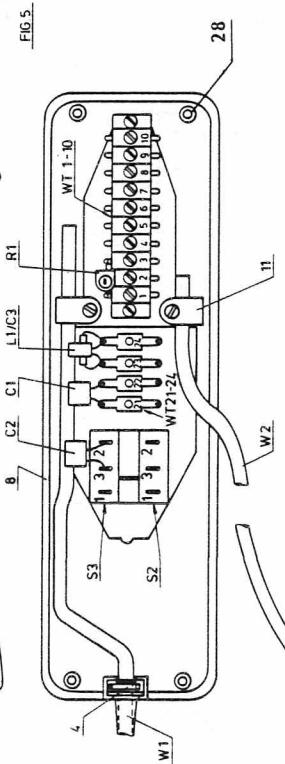


FIG. 6

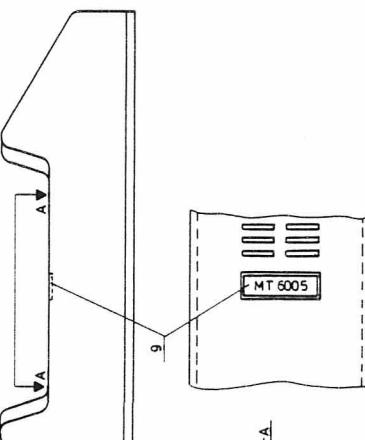


FIG. 6

SEE M405.272 FOR CABLE ASSEMBLY

SEE PART LIST X404.097

COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

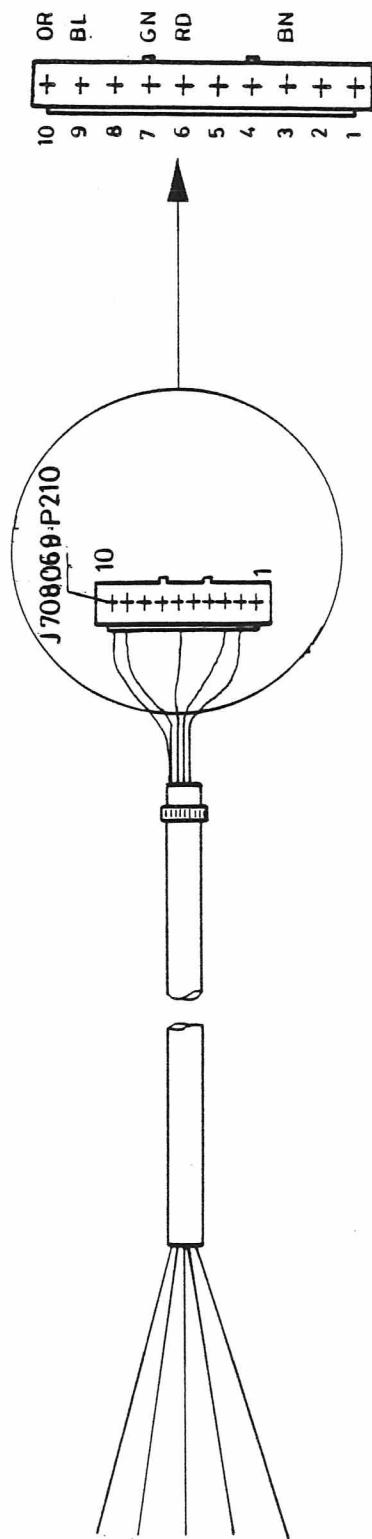
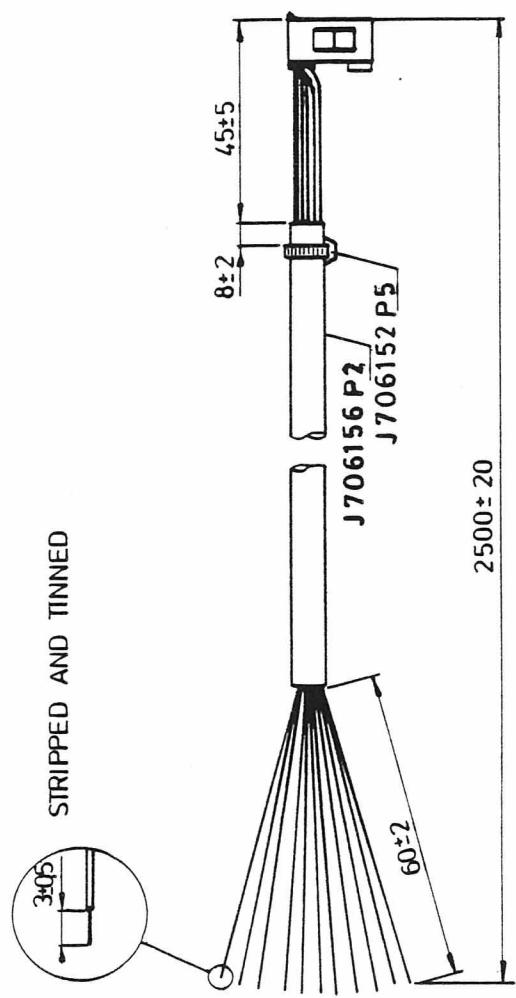
WIRE	FROM	TO	COLOR IEC 304	REMARKS
W1	A1 HL 3	WT4	1	
	WT 13	WT7	0	
	WT 19	WT23	4	
	WT 20	WT22	5	
P1	3	WT 4	1	
P1	6	WT5	2	
P1	7	WT6	5	
P1	9	WT8	6	
P1	10	WT3	3	
12	S2 2	WT 5	2	
14	A1 HL4	WT12	2	
17	S2 1	WT 6	5	
23	WT 24	WT 1	4	
24	WT 21	WT 4	1	
25	S3 2	WT 7	0	
26	S3 1	WT 6	6	
27	S3 3	WT21	1	

MECHANICAL LAYOUT & PARTS NUMBER
FOR MT6005/6 CODE NO. M906134G1/G2

M405.271

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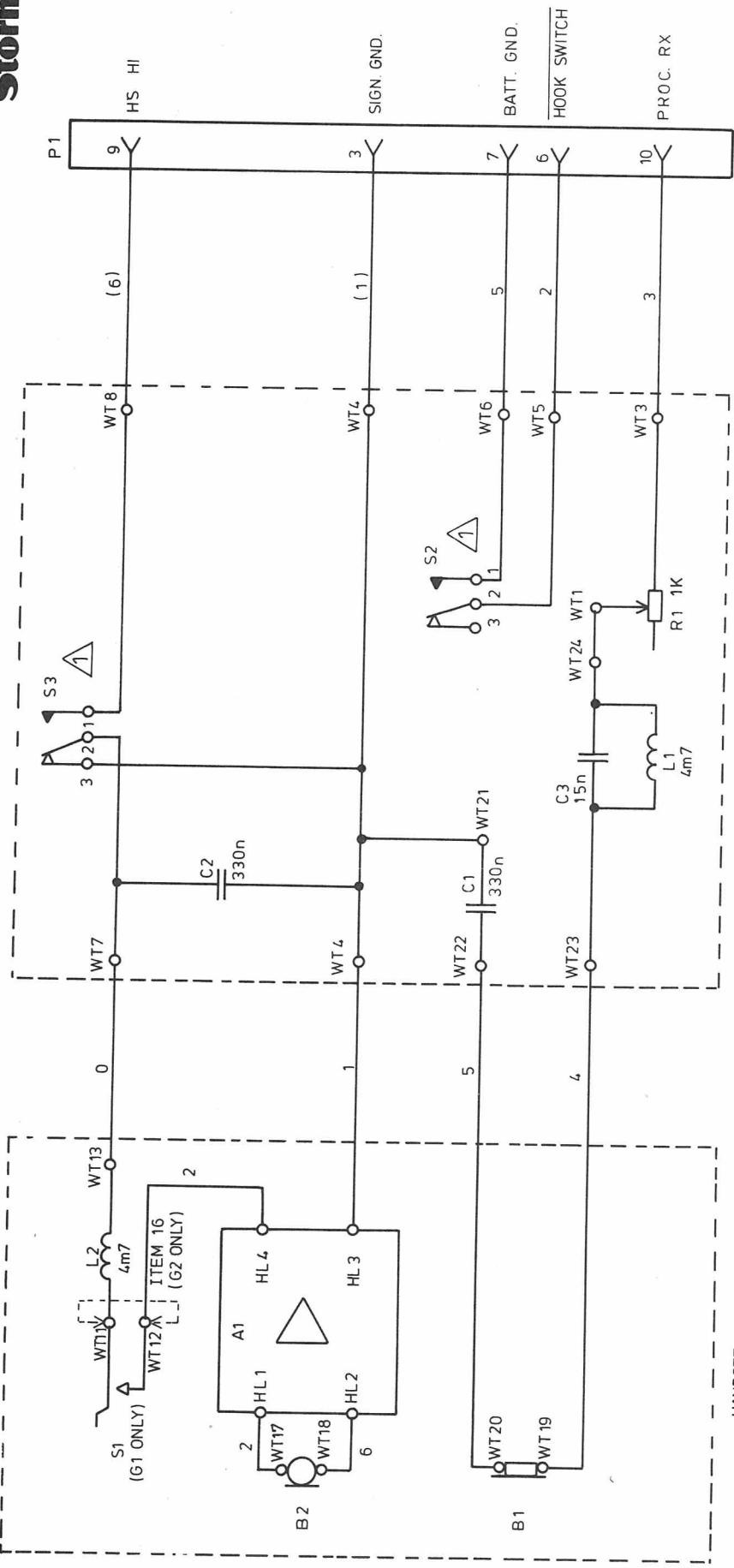


CABLE ASSEMBLY FOR MT6005/
CODE NO. K805030G4

M405. 272/2

Sterne

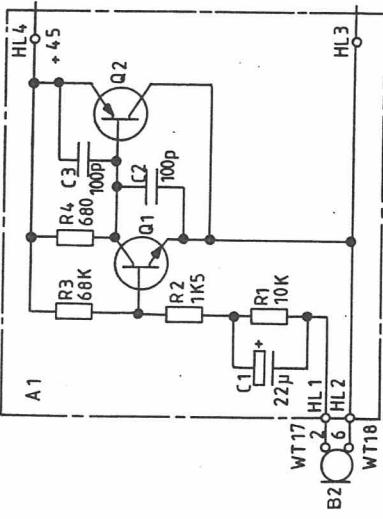
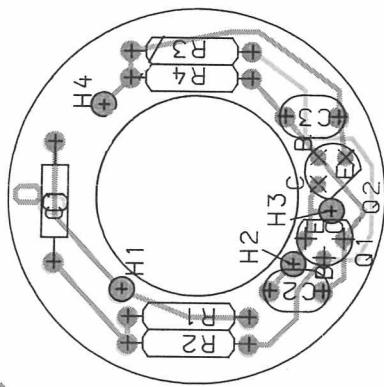
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RETAINER

NOTE :  S2 AND S3 SHOWN WITH HANDSET IN RETAINER.
IEC 304 COLOR CODES ON WIRES

COLOR CODE IEC 304	BLACK BROWN RED ORANGE YELLOW GREEN BLUE VIOLET GREY WHITE
0	1 2 3 4 5 6 7 8 9



HANDSET MT6005/6 AND RETAINER CONNECTIONS

D404.216

ITEM NUMBER	DESCRIPTION
M906134G1/G2	MT 6005/MT6006

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	K805070G1	ASM BD PW C9MT01 / MT 600X	1 (SEE BELOW)
B001	J706194P1	MICROPHONE INS 400R	1
B002	J706194P1	MICROPHONE INS 400R	1
C001	A700004P5	CAP PYES 330N 10% 63V	1
C002	A700004P5	CAP PYES 330N 10% 63V	1
C003	A700005P8	CAP PYES 15N 10% 50V	1
L001	J707174P1	COIL RF FIX 4700UH 10%	1
L002	J707174P1	COIL RF FIX 4700UH 10%	1
R001	J706008P1	RES VAR CERM 1K0 20% 1/2W	1
W001	J706182P1 300463780	CABLE ASSY HANDSET 6COND	1
W002	K805030G4	CABLE ASM MT6005/6006	1 SEE: PAGE 2
0002	J706073P1	NETTING	2
0003	L855026P1	HOLDER	2
0004	J706074P1	PLATE	1
0005	J706195P1	HANDSET CASE BARE BLACK	1
0006	A701268P6	WIRE BLUE	0.10 M
0007	A701268P2	WIRE RED	0.10 M
0008	J706195P2	STOWACE FOR 2 SWITCHES	1
0009	J706202P7/P8	NAME PLATE MT 6005/6006	1
0011	J707335P2	CLAMP LOOP 6 MM	1
0012	A701268P2	WIRE RED	0.160 M
0014	A701268P2	WIRE RED	0.20 M
0015	J707206P1	COV. BLIND FOR MT6006	1
0016	A701268P10	WIRE BLACK FOR MT6006	0.10 M
0017	A701268P5	WIRE GREEN	0.180 M
0019	J706075P1	GROMMET	1
0020	K805023P1	GROMMET	1
0021	J706313P1	RIVET TUBR D-6.0 L-9.0	2
0022	J706433P1	TAPE ACET WDH 12.7 MM	0.10 M
0023	A701268P4	WIRE YELLOW	0.050 M
0024	A701268P1	WIRE BROWN	0.120 M
0025	A701268P10	WIRE BLACK	0.140 M
0026	A701268P6	WIRE BLUE	0.160 M
0027	A701268P1	WIRE BROWN	0.060 M
0028	A701507P108	SCREW PAN HD SZ4.8X12.7AB	4

A001 : K805070G1 : ASM BD PW C9MT01 / MT 600X :

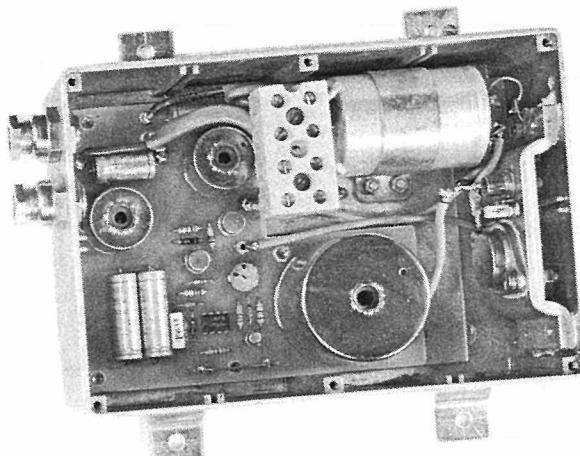
C001 B800650P21 CAP TA SOL 2U2 20% 15V 1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
C002	A700233P1	CAP CER CL2 100P 20% 50V	1
C003	A700233P1	CAP CER CL2 100P 20% 50V	1
Q001	A700017P1	TSTR NPN SI BC 548A/B	1
Q002	A700020P1	TSTR PNP SI BC553A/B	1
R001	A700019P49	RES DEPC 10K 5% 1/4W	1
R003	A700019P57	RES DEPC 47K 5% 1/4W	1
R004	A700019P35	RES DEPC 680R 5% 1/4W	1
W001	A700184P1	RES WIRE Jmpr	1
0002	L855097P1R0	BD PW., REVISION NO.: 0	1
<hr/>			
W002 :	K805030G4 :	CABLE ASM MT 6005/6006:	
P001	J708069P210	CONNECTOR FEMALE	1
0002	J706152P5	STRAP RET., W. BDL D19 NYL.	1
0003	L706156P2	CABLE	2.50 M

CHAPTER 8
POWER SUPPLIES

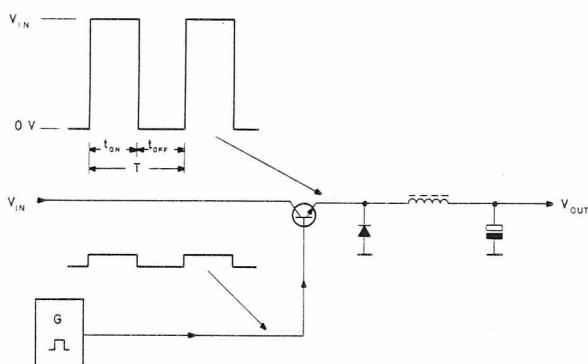
POWER SUPPLIES PS702 & C9PS04

Power Supply Unit PS702



The PS702 power supply is a switching regulator for converting a 24 V input voltage to 12 V output to supply a CQM700 radiotelephone.

The conversion from a high to a lower voltage is accomplished by alternately applying the input voltage (V_{IN}) and 0 volts (ground potential) to an LC lowpass filter, as shown below.



The output voltage will be the average value of the switched waveform. If the voltage drop across the transistor and diode is neglected, the output voltage will be:

$$V_{OUT} = V_{IN} \times \frac{t_{ON}}{T}$$

which, in the case of a symmetric square wave and a 24 V input will be:

$$24 \text{ V} \times 1/2 = 12 \text{ V}$$

In addition, there will be a small amount of ripple voltage whose fundamental frequency is the switching frequency.

Notice that the output voltage, according to the formula, is independent of the load current.

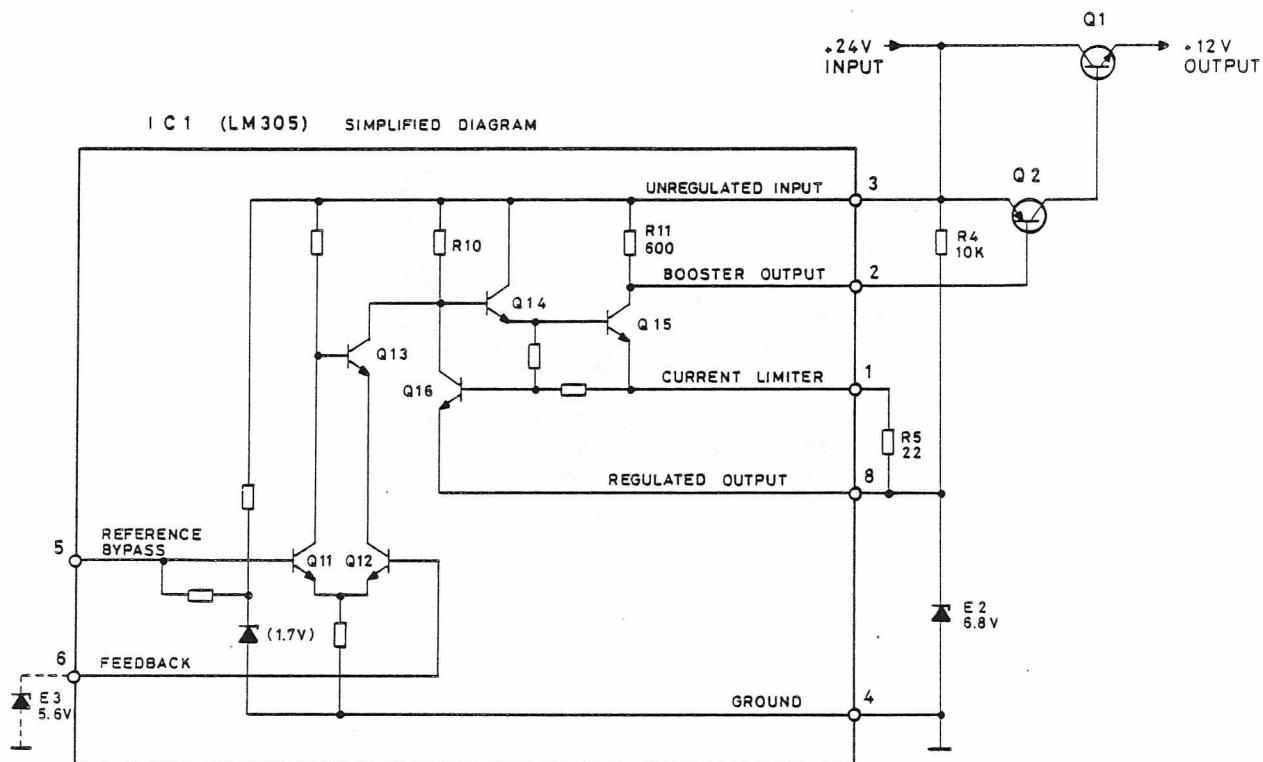
A regulating circuit monitors the output voltage and compares it to a reference voltage. The regulating circuit then accordingly regulates the ratio between ON and OFF time. Thus the output voltage is maintained at the proper level regardless of input voltage or load current.

A current regulating circuit protects the series switch transistors against being destroyed by overloads or short circuits at the power supply output.

LC filters in both the input and output circuits prevent excessive radiation of noise along the input and output leads.

Due to the switching principle the efficiency of this power supply is high, efficiency is on the order of 85%.

SWITCHING CIRCUIT



The LM305 integrated voltage regulator, IC1, drives the PNP switching transistor, Q2. An additional, NPN transistor, Q1, enables the circuit to handle the heavy currents required by the radiotelephone set (up to 8 amperes).

Q11 and Q12 make up a differential amplifier. The input from IC pin 6 is the inverting input, referred to as the feedback input. The non-inverting input, from IC pin 5, is called the reference bypass. This input is held at a potential of 1.7 V (typical value) by the internal IC circuitry. This potential is called the reference voltage.

If the voltage on input pin 6 is less positive than the reference voltage at the base of Q11, the differential amplifier turns Q13 OFF. This is how: Q11 conducts, pulling the base of Q13 LOW while at the same time Q12 cuts off via emitter feedback, preventing any emitter current to flow through Q13. When Q13 goes OFF its collector is pulled up by R10, turning Q14

and Q15 ON. Notice that Q15's 600 ohm collector resistor, R11, is also the emitter-base biasing circuit for Q2, the switching transistor. Thus, when Q15 is driven ON, the collector current through R11 turns Q2 ON, as well. Q2 supplies drive to Q1, which also switches ON.

Now, if a voltage more positive than the internally generated reference voltage is applied to IC pin 6, Q12 will go ON, cutting Q11 OFF. The differential amplifier now forward biases Q13, which goes ON, turning Q14 and Q15 OFF. With no collector current through R11, Q2 loses its forward bias and switches OFF, also switching Q1 OFF.

In addition, there is a built-in current limiting feature in this circuit. Base current for Q2 flows via IC pin 2 (booster output), Q15, R5, and E2 to ground. The 22 ohm resistor R5 is called the current limiting resistor and is also the source of emitter-base bias for Q16. Whenever base current for Q2 tends to exceed the limit set by

the value of R5, Q16 will begin to draw current through R10. This reduces the bias to Q14 and Q15, creating a state of equilibrium where the amount of base drive to Q2 is determined by the value of R5.

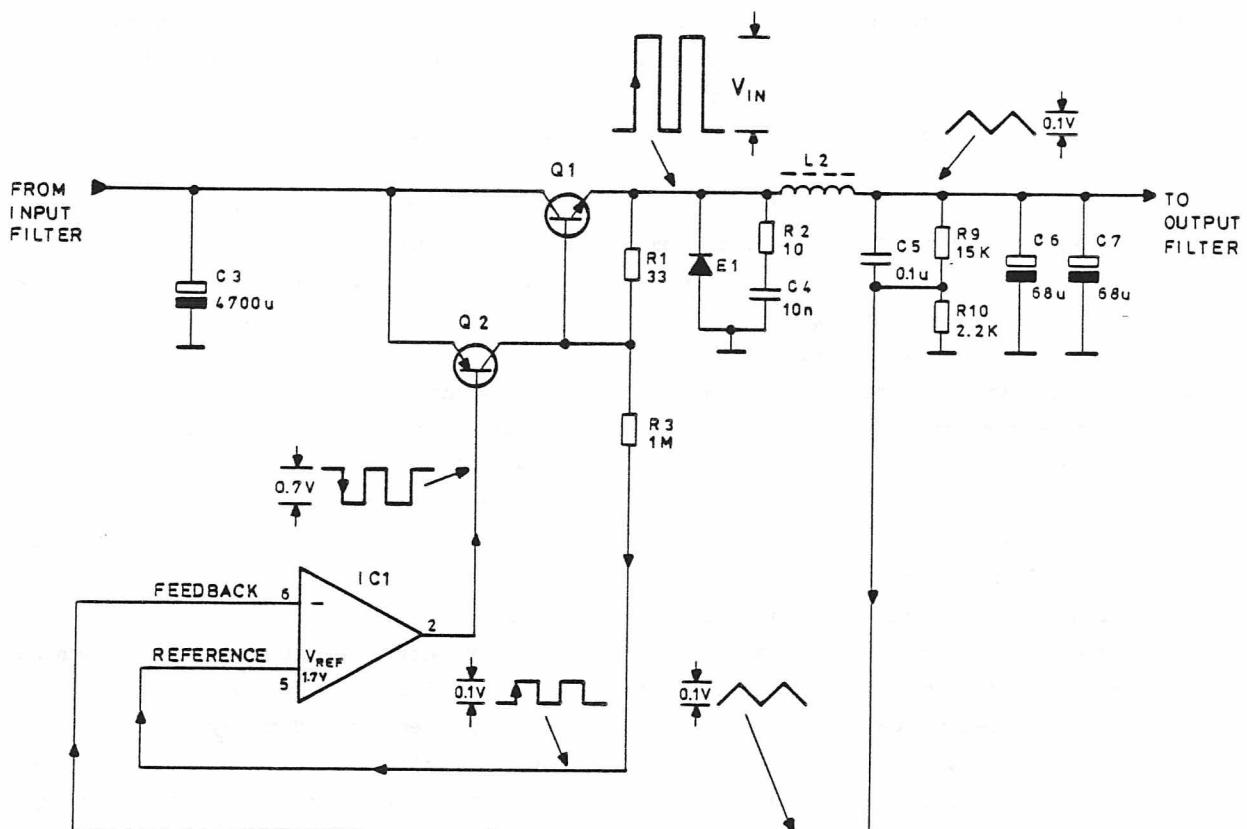
With a value of 22 ohms chosen for R5, the current will be limited to about 15 mA for temperatures within the nominal operating range.

Zener diode E2 keeps the regulated output voltage at IC pin 8 at approximately 6.8 V. E3, a 5.6 V Zener diode, is wired to IC pin 6. This ensures that the voltage to the feedback terminal cannot rise higher than the voltage at IC pin 1. Otherwise the circuit can latch up and burn out.

OSCILLATOR CIRCUIT

The integrated voltage regulator, IC1, monitors the output voltage by measuring the portion of the DC voltage that is dropped across R10. It also measures the full amplitude of the output ripple via bypass capacitor C5. Thus the instantaneous ripple amplitude adds with the sampled DC voltage at input terminal 1, pin 6 of IC1.

When power is initially to the PS702 there is no voltage at the output. Therefore there can be no bias available at pin 6 of IC1, and the internally generated reference voltage present at the noninverting input, pin 5, will then be able to drive the IC ON, which in turn drives Q2, then Q1, into conduction as well.



A positive voltage now begins building up on the collector of Q2 as well as on the emitter of Q1. A small portion of this rising voltage is fed back through resistor R3 to IC1 input terminal, pin 5. The amplitude of the feedback signal is determined by the ratio of R3 to the input impedance of the terminal. The polarity of the feedback signal is such that it causes the voltage at terminal 5 to become even more positive. This regenerative feedback therefore increases the gain of the amplifier, driving Q1 and Q2 even harder. (In fact, the amplitude of the feedback signal is sufficient to sustain oscillation in the circuit). Of course, this all happens very quickly, during the rise time of the square wave.

Meanwhile, filter capacitors C6 and C7 are charging up to the input voltage through L2 and Q1. The DC charge on these parallel capacitors is divided between R9 and R10. Remember, too, that C5 bypasses ripple voltages (including charging waveforms) around R9, directly to pin 6 of the regulator IC.

At some point the combined AC and DC voltages as seen at pin 6 of IC1 will become greater than the bias at pin 5, which bias is equal to the internal reference voltage plus the instantaneous value of the feedback signal. Now when the potential at terminal 6 has become more positive than that at terminal 5, the regulator switches state and cuts Q2 and Q1 OFF.

When this happens the magnetic field induced in coil L2 will attempt to maintain the current flow through the coil and in so doing biases catch diode E1 into forward conduction, in effect grounding the emitter of Q1. As seen at IC pin 5, the regenerative feedback via R3 is now a negative-going pulse. This, of course, is the correct polarity for driving the integrated amplifier and the switching transistors even further into cut-off.

The circuit remains cut off until C6 and C7 discharge enough so that the potential seen at pin 6 falls below that at pin 5 (the reference voltage minus the feedback signal). At this point the IC switches state again and the circuit continues in this way to oscillate at a frequency determined by the reactance of L2, the capacitances of C6 and C7, and the amplitude of the feedback signal. Feedback resistor R3 is what determines the amplitude of the feedback signal.

(It is worth mentioning here that the output voltage does not reach its full 12 V potential immediately, but in several increments governed by the oscillator excursions and the frequency of oscillation. However, once the output voltage reaches its full value, it remains constant with only a slight ripple voltage).

The amplitude of the feedback signal, typically 100 mV, determines how great a voltage excursion the oscillator circuit must self-compensate for, the ripple superimposed on the filter capacitors C6 and C7 will have essentially the same amplitude as the feedback signal voltage. With L2, C6, and C7 as circuit constants, the rate of charging the filter capacitors is also constant. Thus, if the capacitors have to charge (or discharge) to a relatively greater voltage before the oscillator switches state, it will take a longer time to do so. On the other hand, if the feedback and ripple amplitudes are relatively less, the capacitors can reach the threshold levels in less time. This is what determines the frequency of oscillation.

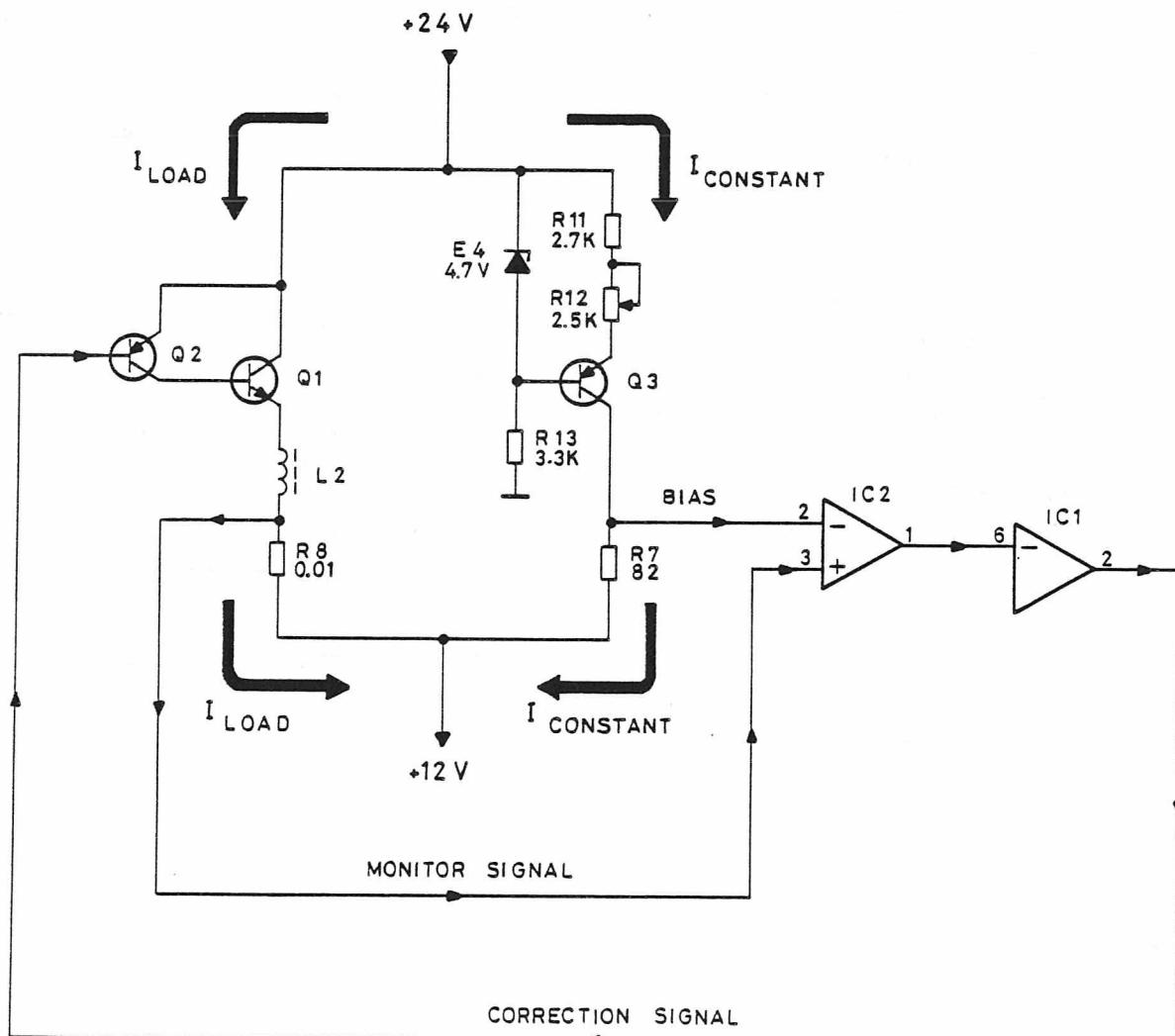
The oscillator frequency is approximately 25 kHz. This frequency was chosen as a compromise between efficiency, which improves with lowering frequency, and the necessity of ensuring against radiating undesired signals that would fall within the audible range.

An RC network consisting of R2 and C10, accross catch diode E1, is a damping circuit used to attenuate switching transients that appear across E1. As explained earlier, E1 conducts heavily when Q1 is turned OFF. Right as Q1 goes ON again, E1 will still conduct because of its inherent reverse recovery time. The diode will thus act as a short circuit and a strong surge will pass from C3 through Q1 and E1. When all the charge stored in the catch diode is removed, the diode no longer conducts and pulse transients arise. At this point the damping circuit must handle the surge transients. This current surge, with its attendant transients, is the main cause of RF noise generated in the power supply.

OUTPUT CURRENT LIMITER CIRCUIT

Output current limiting is performed by comparator IC2. It compares the voltage drop across the 0.01 ohm resistor, R8, to the 82 ohm resistor, R7. Resistor R7 is in series with the constant current generator, Q3, and there will therefore be a uniform voltage drop across the resistor. On the other hand, resistor R8 is in series with the output load, so the voltage drop across R8 will depend upon the varying load conditions.

As long as the load current remains below a certain limit the voltage drop across R8 will be less than that across R7, and IC2 is held OFF.



When the load current increases, so does the voltage drop across R8, and if the current surpasses the set limit the voltage across R8 becomes greater than the voltage across R7. Now just the opposite condition exists: IC2 goes ON, driving IC1 OFF, which in turn switches Q2 and Q1 OFF, as well.

The maximum allowable load current before limiting will take place is set by adjusting potentiometer R12. Since R12 is in the emitter circuit of the constant current generator, Q3, its setting determines the voltage drop across R7.

Battery Protection

A double fuse box with two 5A fuses must be inserted in the leads from the battery and the vehicle chassis, one fuse in the battery lead and one in the chassis lead. It is not necessary to fuse the connections between power supply and CQM700 equipment.

SERVICING

A good practice to observe when servicing the PS702 is to load the output with a 50 ohm, 15W resistor or a suitable rheostat. Otherwise, if allowed to operate unloaded, the oscillator runs irregularly. This is a normal phenomenon and has no bad effect on the power supply, but it could be misleading when checking the performance of a unit.

Technical Specifications

Supply Voltage

minimum: 21.0 V
nominal: 27.2 V
maximum: 32.0 V

Output Voltage

minimum: 10.5 V
maximum: 16.0 V

Output Load

for output voltage > 10.5 V: 8 A min.

Output Ripple Voltage

< 50 mV p.p.

Current Consumption

27.2 V supply, unloaded output: 10 mA
21.0 V supply, 8.0 A output load: 5.8 A
27.2 V supply, 8.0 A output load: 4.6 A

Efficiency

for $I_L > 0.5$ A: 87%

Ambient Temperature Range

(for continuous duty at 8 A)

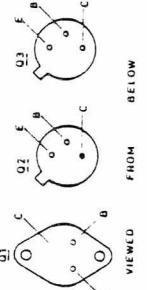
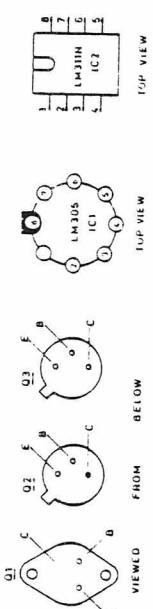
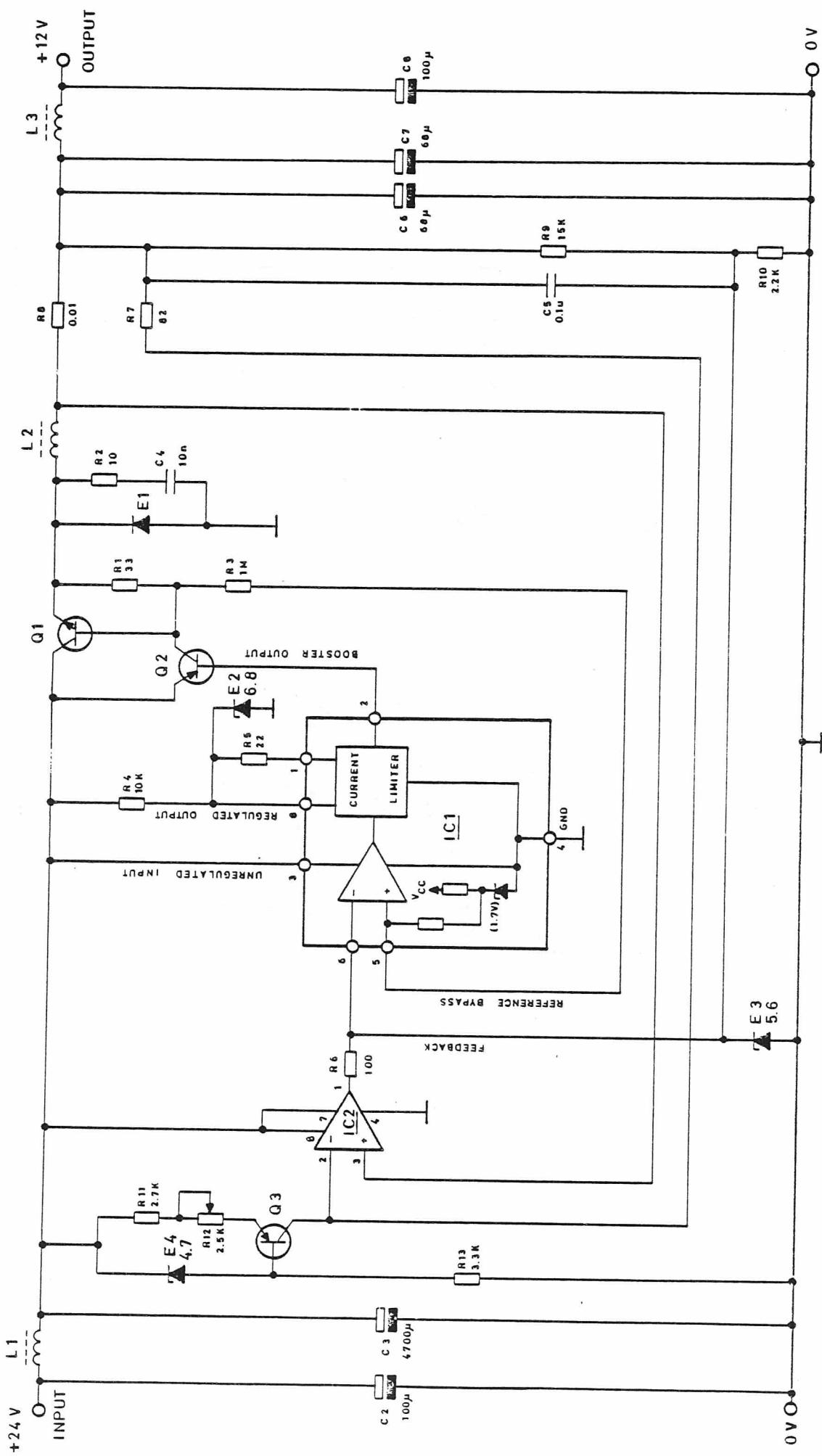
operating range: -25°C to +40°C
functioning range: -25°C to +80°C

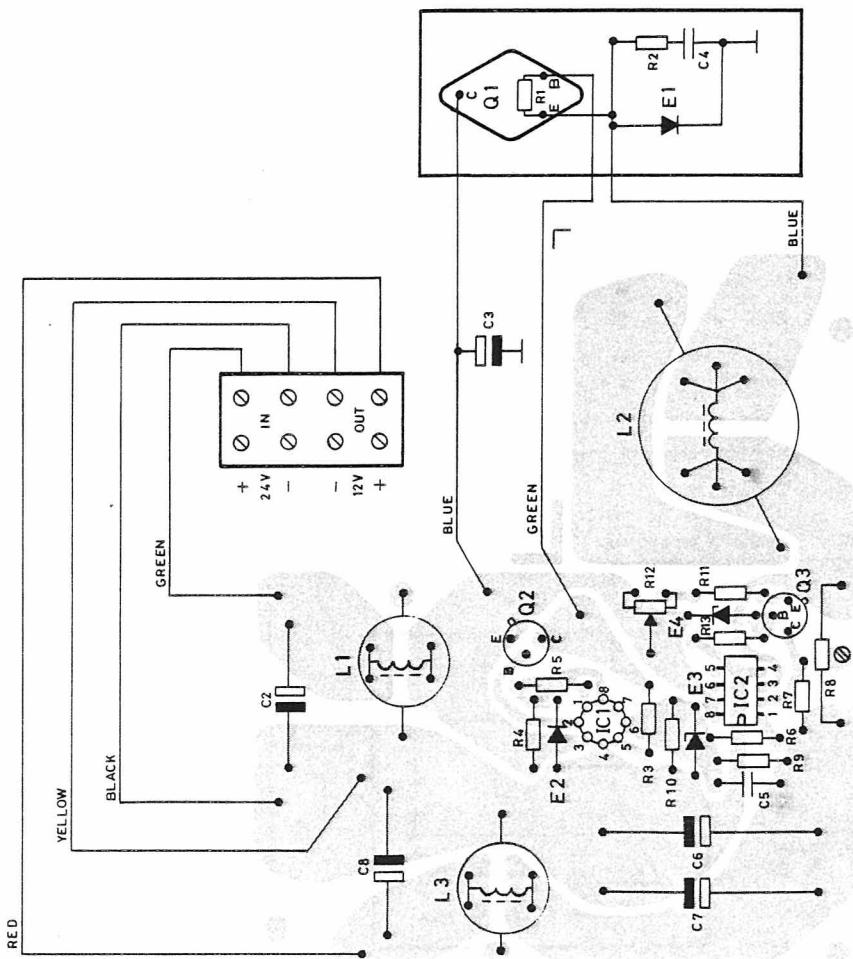
(for intermittent duty,
average load ≤ 4 A and duty period ≤ 20 min.)

operating range: -25°C to +60°C
functioning range: -25°C to +80°C

POWER SUPPLY PS702

D 4 01.87012





POWER SUPPLY
STRØMFORSYNING PS702

D402.096

ITEM NUMBER	DESCRIPTION
10.2918-00	PS 702
15.0186-00	SUBASSEMBLY (PS702)
15.0187-00	SUBASSEMBLY (PS702)
15.0188-00	SUB-SUBASSEMBLY (PS702)

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY	
A01	15.0186-00	SUBASSEMBLY (PS702)	1	(SEE BELOW)
A02	15.0187-00	SUBASSEMBLY (PS702)	1	SEE: PAGE 2
0	A700031P408	SCREW PAN HD M-3.0X8.0	8	
0	A700034P4	NUT HEX M-3.0X0.50	4	
0	J706076P5	WASHER SPG 3.0X6.4	8	
0	J708543P2	WASHER	4	
0	J708564P1	WASHER	4	
0	J708565P1	GASKET	2	
0	11.1012-00	CABINET, DRILLED-	1	
0	11.1013-00	PLATE, CONNECTION-	2	
A	17.0076-00	KIT, MOUNTING-	1	
0	20052-03008	SCREW 3X8 FLAT H-POZ	4	
0	38.5006-01	CABLE SEALING GLAND	1	
0	51.0796-00	LABEL, TYPE-	1	
0	51.0806-00	LABEL	1	
0	51.0992-00	LABEL	1	

/-----/

A01 : 15.0186-00 : SUBASSEMBLY (PS702) :

C04	74.5109-00	CAP CER PL 10N 20% 63V	1
D01	99.5289-00	DIODE PWR SI BYX 50-200R	1
Q01	99.5261-00	TSTR NPN SI BDY 91 / 2N5039	1
R01	A700019P19	RES DEPC 33R 5% 1/4W	1
R02	A700019P13	RES DEPC 10R 5% 1/4W	1
W	18.0767-00	WIRING, FLEX.-	1
0	A700034P4	NUT HEX M-3.0X0.50	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
0	A700035P410	SCREW FLAT HD M-3.0X10.0	1
0	J706076P4	WASHER SPG 2.5X5.9	1
0	J706076P5	WASHER SPG 3.0X6.4	1
0	J706076P7	WASHER SPG 5.0X10.5	1
0	20022-04015	SCREW K-K 4X15 MM DIN 798	2
0	2401-090043	WASH. UDST 9X4,3X1,0 MM	2
0	34.5009-00	SOLDER LUG	1
0	34.5019-00	SOLDER LUG	1
0	34.5033-00	SOLDER LUG	1
0	43.5005-00	INSULATOR, STAND OFF-	1
0	59.0041-00	PLATE, HEAT SINK-	1
0	59.5007-00	BUSHING, INSUL.-	2
0	99.5018-00	WASHER, MICA-	1
<hr/>			

A02 : 15.0187-00 : SUBASSEMBLY (PS702) :

A03	15.0188-00	SUBASSEMBLY	1	(SEE BELOW)
C03	73.5155-00	CAP ELEC 4700U -10+50% 40V	1	
W	18.0768-00	WIRING, FLEX.-	1	
0	A700031P420	SCREW PAN HD M-3.0X20.0	2	
0	A700034P4	NUT HEX M-3.0X0.50	2	
0	A700035P406	SCREW FLAT HD M-3.0X6.0	9	
0	J706076P5	WASHER SPG 3.0X6.4	2	
0	11.1014-00	PLATE, MOUNT.-	1	
0	20052-03008	SCREW 3X8 FLAT H-POZ	4	
0	31.0002-04	SPACER, THREADED-	2	
0	32.0429-00	PLATE, INSUL.-	1	
0	38.5023-00	BRACKET	1	
0	42.5024-00	TERMINAL	1	
<hr/>				/

A03 : 15.0188-00 : SUBASSEMBLY :

C02	73.5071-00	CAP ELEC 100U -10 + 50% 35V	1
C05	76.5091-00	CAP PYES FL 0U1 20% 100V	1
C06	73.5154-00	CAP ELEC ELKO 68U 20% 16V	1
C07	73.5154-00	CAP ELEC ELKO 68U 20% 16V	1
C08	73.5071-00	CAP ELEC 100U -10 + 50% 35V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
D02	99.5146-00	DIODE, ZENER- 6V8 5% 1/4W	1
D03	99.5114-00	DIODE, ZENER- 5V6 5% 1/4W	1
D04	99.5224-00	DIODE, ZENER- 4V7 5% 1/4W	1
L01	61.1235-00	COIL, FILTER-	1
L02	61.1236-00	COIL, FILTER-	1
L03	61.1237-00	COIL, FILTER-	1
Q02	99.5215-00	TSTR PNP SI 2N2905A	1
Q03	99.5251-00	TSTR PNP SI BC307A/B, BC557	1
R03	80.5085-00	RES DEPC 1M OHM 5% 0,1W	1
R04	A700019P49	RES DEPC 10K 5% 1/4W	1
R05	A700019P17	RES DEPC 22R 5% 1/4W	1
R06	A700019P25	RES DEPC 100R 5% 1/4W	1
R07	A700019P24	RES DEPC 82R 5% 1/4W	1
R08	J706037P1	RES WIRE OR01,/1.0 .64, 35MM	0,001 KG
R09	A700019P51	RES DEPC 15K 5% 1/4W	1
R10	A700019P41	RES DEPC 2K2 5% 1/4W	1
R11	A700019P42	RES DEPC 2K7 5% 1/4W	1
R12	86.5043-00	RES VAR LIN 2K5 20% 0,1W	1
R13	A700019P43	RES DEPC 3K3 5% 1/4W	1
R1?	A700019P73	RES DEPC 1M0 5% 1/4W	1
U01	14.5054-00	IC LIN VOLT. REG. SG 305	1
U02	14.5070-00	IC LIN VOLT. COMP. LM 311 N	1
0	54.0663-00	PW BOARD, RIVETED-	1

Storno

TYPE	NO.	CODE	DATA
PS702		10.2918	Power Supply
C2	73.5071	100 μ F - 10 + 50% elco	40V
C3	73.5155	4700 μ F - 10 + 50% elco	40V
C4	74.5109	10 μ F - 20 + 50% ceram FL	63V
C5	76.5071	0.1 μ F 20% polyest. FL	50V
C6	73.5154	68 μ F 20% elco	16V
C7	73.5154	68 μ F 20% elco	16V
C8	73.5071	100 μ F - 10 + 50% elco	40V
R1	80.5231	3.3 Ω 5% carbon film	1/8W
R2	80.5225	1.0 Ω 5% "	1/8W
R3	80.5085	1M Ω 5% "	1/10W
R4	80.5261	10K Ω 5% "	1/8W
R5	80.5229	22 Ω 5% "	1/8W
R6	80.5237	100 Ω 5% "	1/8W
R7	80.5236	82 Ω 5% "	1/8W
R8	178.5005	0.01 Ω constantan wire,	3.5mm
R9	80.5263	1.5K Ω 5% carbon film	1/8W
R10	80.5253	2.2K Ω 5% "	1/8W
R11	80.5254	2.7K Ω 5% "	1/8W
R12	86.5043	2.5K Ω potentiometer	1/10W
R13	80.5255	3.3K Ω 5% carbon film	1/8W
L1	61.1235	Filter coil	
L2	61.1236	Filter coil	
L3	61.1236	Filter coil	
E1	99.5289	BYX 50-200R diode	
E2	99.5146	6.8V 5% Zener diode	1/4W
E3	99.5114	5.6V 5% "	1/4W
E4	99.5224	4.7V 5% "	1/4W
Q1	99.5261	BDY91 Transistor	
Q2	99.5215	2N2905A Transistor	
Q3	99.5251	BC177 Transistor	
IC1	14.5054	LM305 Voltage regulator	
IC2	14.5970	LM311N Voltage comparator	

Storno

TYPE	NO.	CODE	DATA
PS702		10.2918	Power Supply
C2	73.5071	100 μ F - 10 + 50% elco	40V
C3	73.5155	4700 μ F - 10 + 50% elco	40V
C4	74.5109	10 μ F - 20 + 50% ceram FL	63V
C5	76.5071	0.1 μ F 20% polyest. FL	50V
C6	73.5154	68 μ F 20% elco	16V
C7	73.5154	68 μ F 20% elco	16V
C8	73.5071	100 μ F - 10 + 50% elco	40V

POWER SUPPLY
STRØMFORSYNING

PS702

X401.937

POWER SUPPLY UNIT

C9PS04



The C9PS04 is a mains operated power supply for the Stornophone 900 radiotelephone. The unit consists of a mains transformer, a rectifier,

a smoothing filter, a switching regulator, and an output filter. The unit will supply 13.6 V stabilized DC when connected to a 220 V/240 V AC outlet.

CIRCUIT DESCRIPTION

POWER TRANSFORMER

The power transformer is wound on a toroide core and has three windings, a 220/240 V primary and two 24 V secondary.

The 2 secondary windings are connected in parallel to the rectifier (D5) which gives the DC to the switching circuit.

SWITCHING REGULATOR

The switching circuit is built as a normal switching mode regulator with constant switching frequency, approximately 32 kHz, and variable duty cycle. The actual switching function is performed by the transistor configuration Q2, Q3, Q4 and the fly-back diode D4, which clamps the input of L-C filter L2-C8 to ground potential in that portion of the cycle where the switching transistors are off and D4 is forced to

conduct by the energy from the collapsing field of L2.

The output voltage across C8 is sensed by IC1a and compared to the reference voltage across D2-D3. The resulting signal is amplified by IC1b which is driving Q2 and in turn Q3 and Q4.

Output current limiting is achieved by monitoring the voltage drop across R17 and feed this voltage to IC1d. The IC1d output is 'OR-ed' with the voltage control signal at the IC1a output and therefore overrides the control voltage when the output current goes excessively high.

The two filters, C2-L1-C3, and C8-L3-C9, are ripple-transient filters on the input and output and their function is to ensure that the inherent switching noise does not exceed acceptable limits on the input and output terminals, and the cables as well.

STRAPPING BOARD

The strapping board contains the output connector and is assembled to the cabinet and a printed board with soldered and riveted terminals:
-3 terminals connecting the mains transformer primary windings and the mains connection.

- 1 terminal connecting the screen for the mains transformer.
- 1 terminal connecting the mains transformer screen to cabinet.
- 2 terminals connecting the output from the switching circuit to the output connector assembled to the cabinet.

TECHNICAL SPECIFICATIONS**Mains Voltage**

220/240 V AC +12/-12%; 50-60 Hz

Power Consumption

Approx. 15 mA, 0 Amp load

Approx. 500 mA, 7 Amp load

Output Voltage

13,6 V DC ± 2,0 V

Output Current

Maximum 7 A (short circuit protected)

Output Voltage Ripple

Less than 100 mV pp (peak to peak)

Switching Frequency

Approx. 32 kHz

Temperature Range

-25°C to +55°C

Dimensions

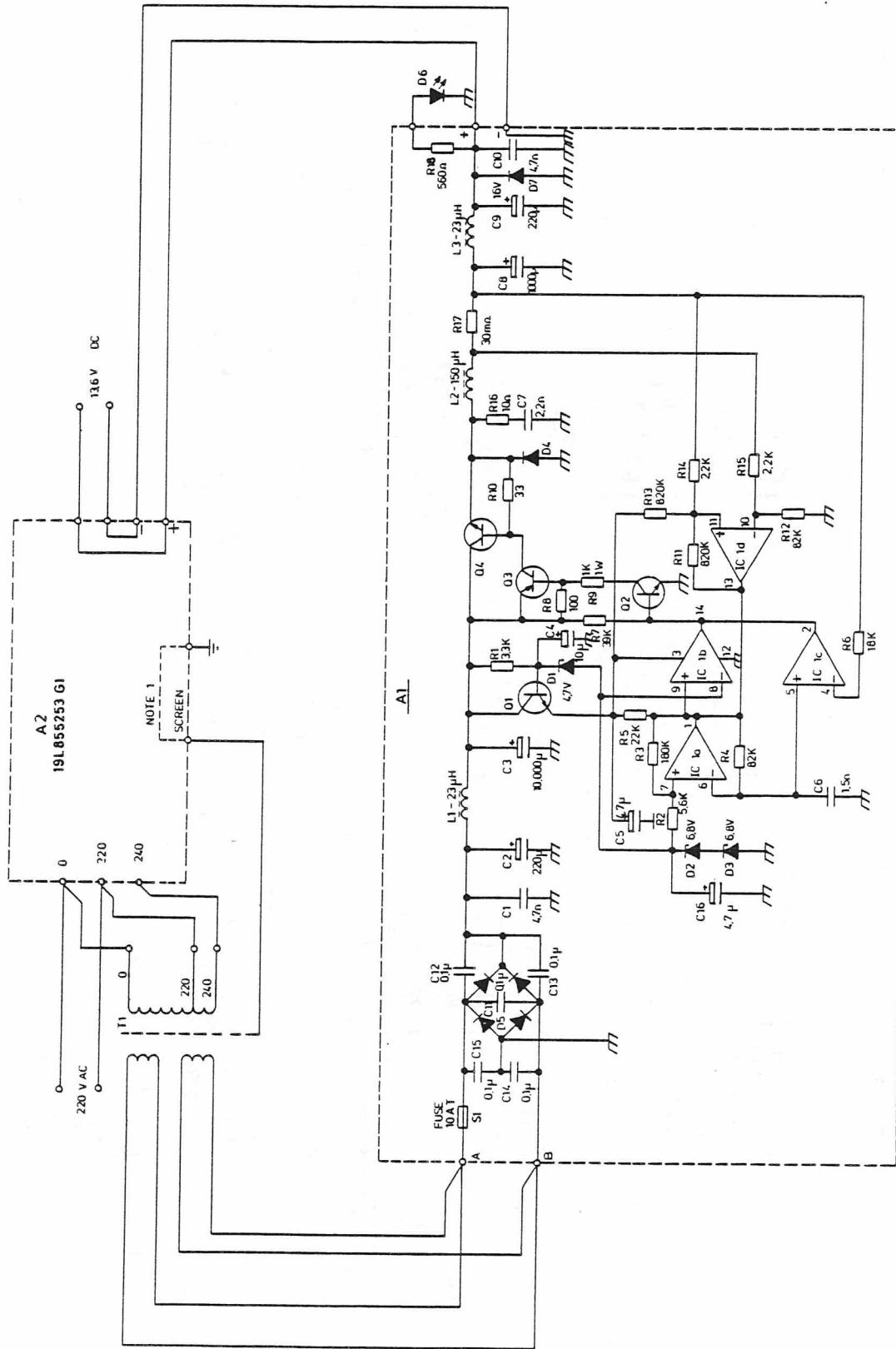
L = 240 mm, W = 185 mm, H = 85 mm

Weight

4,5 kg

Storno

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NOTE 1
CONNECTION IN G2 ONLY

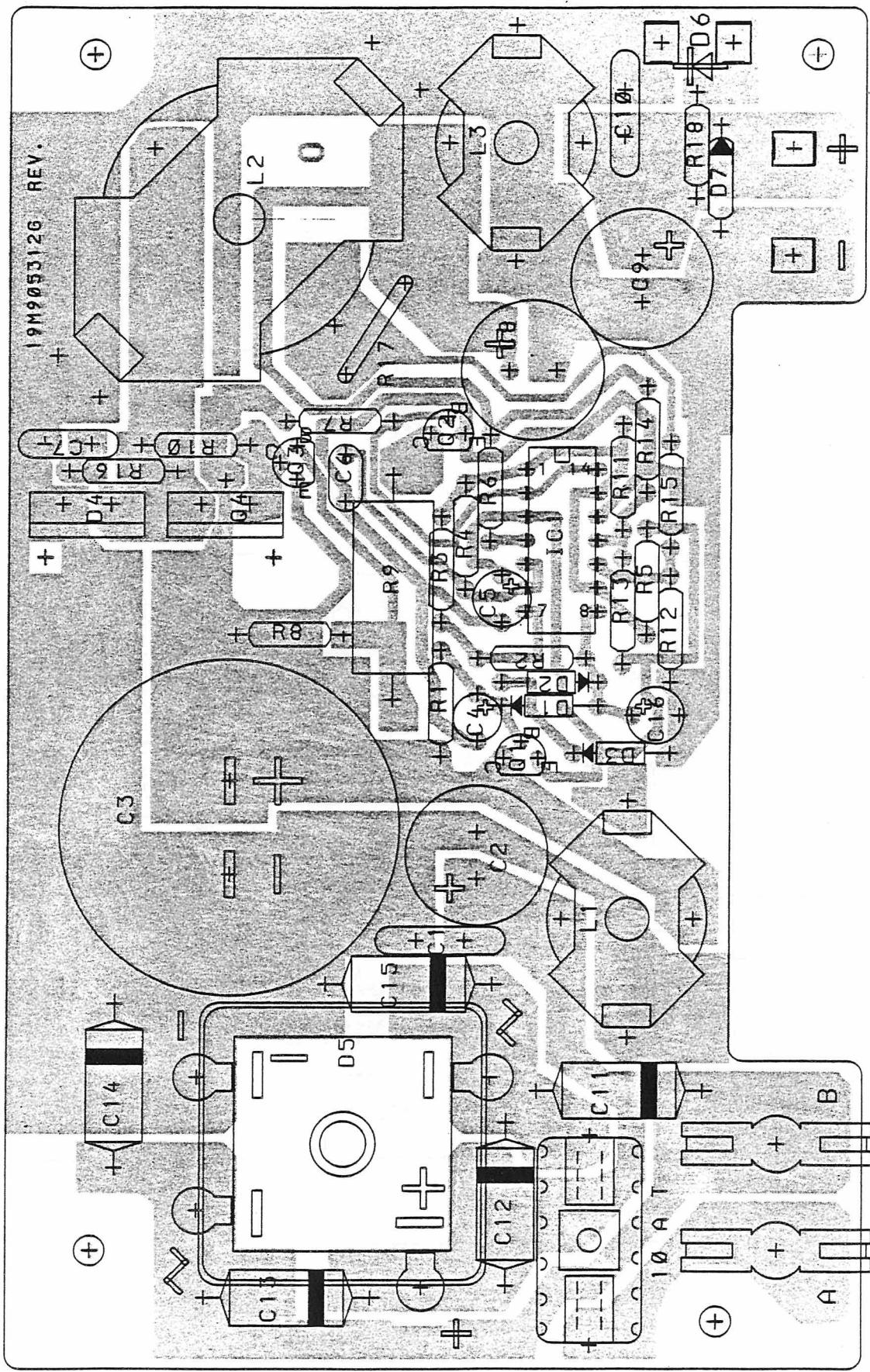
MOUNTED BOARD
CODE NO.
A1 19M905312 G1
A1 19M905312 G2

POWER SUPPLY C9PS04

D403.261

Storno

Storno



POWER SUPPLY C9PS04
COMPONENT LAYOUT

D40? 262

ITEM NUMBER	DESCRIPTION
M905344G1	C9PS04
M905312G1	A1 : SUB ASM., CPNT BD PW PS 904
L855253G1	A2 : SUB ASM., CPNT BD PW

P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY TOTAL
A1	M905312G1	ASM BD PW PS 904	1
* A2	L855253G1	ASM BD PW	1
D6	J706136P2	DIO OPTO	1
T1	J706961P1	TRANSFORMER MAINS 270VA	1
002	L855258G1	CHASSIS ASM	1
003	J707114G1	CA PWR	1
004	J707114G2	CA PWR	1
006	L855270P1	COVER	1
* 007	J707001G1	KIT	1
008	K805244G1	HT SK	1
009	J706982P1	WASHER	2
010	J706961P2	MTG DISC J706961P1	1
011	J706992P1	SPACER	4
013	J706999P1	INS PLT	1
015	J706921P1	RETAINER	1
016	J707000P1	NP	1
017	J706961P3	MTG WASHER, RUBB.	2
018	K805023P1	GROMMET	1
019	J706968P1	CABLE ASSY POWER 2-COND	1
021	J706902P1	CLAMP, CA	1
022	J706902P2	CLAMP, CA	1

ITEM NUMBER	DESCRIPTION
A01 :	ASM BD PW., PS 904 :

C01	A700001P11	CAP CER 4,7NF 50V	1
C02	J706005P14	CAP ELEC 220U 40V	1
C03	J706957P2	CAP ELECT 10.000MF 40V	1
C04	A701534P4	CAP TA SOL 1U 20% 35V	1
C05	A701534P6	CAP TA SOL 4U7 20% 35V	1
C06	A700234P2	CAP PYES 1N5 10% 50V	1
C07	A700233P9	CAP CER 2N2 10% 50V	1
C08	J706005P7	CAP ELEC 1000U 16V	1
C09	J706005P10	CAP ELEC 220U 25V	1
C10	A700001P11	CAP CER 4,7NF 50V	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY TOTAL
C11	J706959P1	CAP PYES 0.1UF 100V	1
C12	J706959P1	CAP PYES 0.1UF 100V	1
C13	J706959P1	CAP PYES 0.1UF 100V	1
C14	J706959P1	CAP PYES 0.1UF 100V	1
C15	J706959P1	CAP PYES 0.1UF 100V	1
C16	A701534P6	CAP TA SOL 4U7 20% 35V	1
D1	A700025P5	DIO SI ZENR 4V7 5% 0,4W	1
D2	A700025P8	DIO SI ZENR 6V8 5% 0,4W	1
D3	A700025P8	DIO SI ZENR 6V8 5% 0,4W	1
D4	J706023P1	DIO SI PWR BYW 29-50	1
D5	J707044P1	DIO	1
D7	J706030P4	DIO SI ZENR 16V 5% 1W	1
L1	K805252G1	ASM COIL, 23 UH	1
L2	K805253G1	ASM COIL, 150 UH	1
L3	K805252G1	ASM COIL, 23 UH	1
Q1	A700017P1	TSTR NPN SI BC 548A/B	1
Q2	A700017P1	TSTR NPN SI BC 548A/B	1
Q3	A700026P1	TSTR PNP SI BC 369	1
Q4	J706015P1	TSTR NPN SI D44H8	1
R01	A700019P43	RES DEPC 3K3 5% 1/4W	1
R02	A700019P46	RES DEPC 5K6 5% 1/4W	1
R03	A700019P64	RES DEPC 180K 5% 1/4W	1
R04	A700019P60	RES DEPC 82K 5% 1/4W	1
R05	A700019P53	RES DEPC 22K 5% 1/4W	1
R06	A700019P52	RES DEPC 18K 5% 1/4W	1
R07	A700019P56	RES DEPC 39K 5% 1/4W	1
R08	A700019P25	RES DEPC 100R 5% 1/4W	1
R09	J706251P37	RES DEPC 1K0 5% 1/1W	1
R10	A700019P19	RES DEPC 33R 5% 1/4W	1
R11	A700019P72	RES DEPC 820K 5% 1/4W	1
R12	A700019P60	RES DEPC 82K 5% 1/4W	1
R13	A700019P72	RES DEPC 820K 5% 1/4W	1
R14	A700019P41	RES DEPC 2K2 5% 1/4W	1
R15	A700019P41	RES DEPC 2K2 5% 1/4W	1
R16	A700019P13	RES DEPC 10R 5% 1/4W	1
R17	J706891P1	RES CONST 0.030 OHM	1
R18	A700019P34	RES DEPC 560R 5% 1/4W	1
S1	J706998P13	FUSE CTG 10.0A	1
U1	J706018P1	IC LIN CMPAR 3302	1
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008	J706903P1	FZ HLR	1
009	J706904P1	TERM SLD RLN 2689002	2
010	J706973P1	TERM, SLD 2.3 SQ HOLE	4
011	J706977P1	TERM SLD D 5 BEND	4
012	A700068P1	INS BUSH	2
013	A700115P3	INSULATOR PLATE	2
014	K805245P1	HOLDER	1

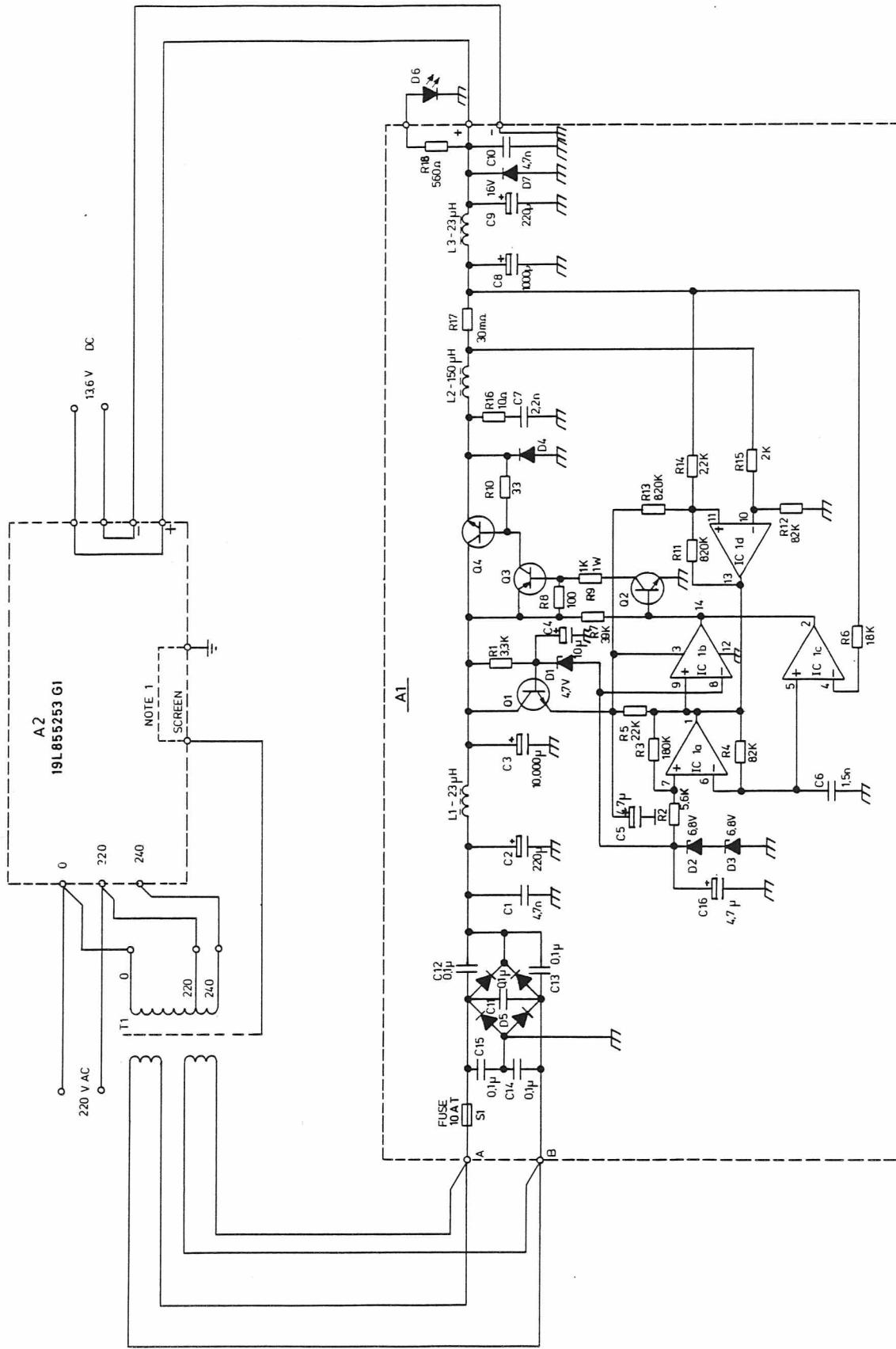
CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY TOTAL
MECHANICAL PARTS:			
	A700031P305	SCREW PAN HD M 2.5X5.0	2
	A700031P310	SCREW PAN HD M 2.5X10.0	2
	A700031P406	SCREW PAN HD M 3.0X6.0	0
	A700031P413	SCREW PAN HD M 3.0X13.0	2
	A700032P5	WASHER LOK TOH D 3.0	3
	A700033P7	WASHER LOK TOH D 4.0	1
	A700034P6	NUT	1
	A700034P7	NUT	1
	A700036P406	SCREW PAN HD M 3.0X6.0	0
	A701502P1	BMPR	4
	A701847P205	SCREW THR FORM	2
	J706076P5	WASHER SPG 3.0X6.4	4

POWER SUPPLY C9PS04

D403.261/2

MODULE CODE NO.M905344G1/G2
MOUNTED BOARD A1, CODE NO.M905312G1

NOTE 1.
CONNECTION IN G2 ONLY.



PARTS LIST FOR POWER SUPPLY C9PS04 : M905344G1/G2

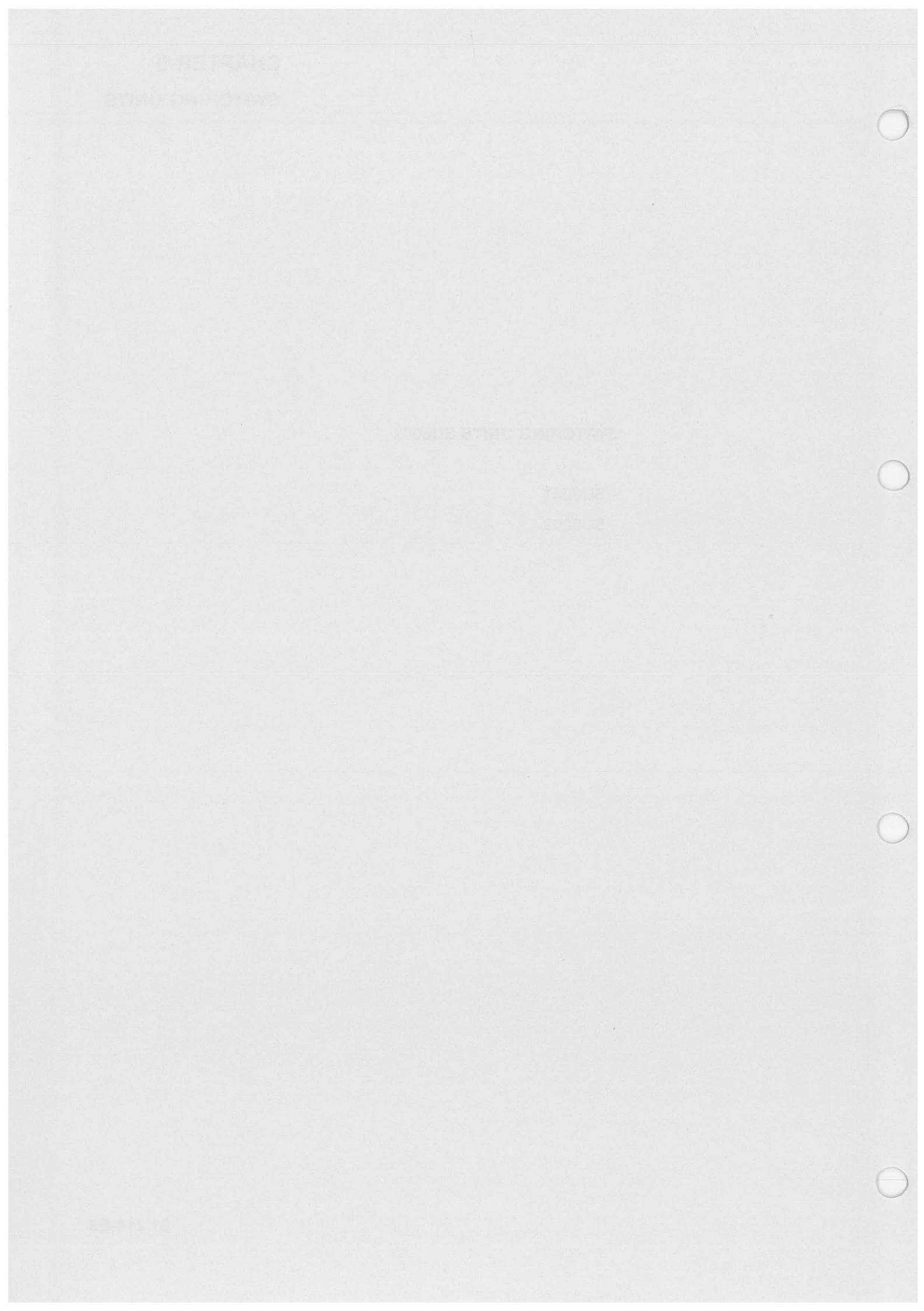
Pos	Code No.	Description	Qt	Pos	Code No.	Description	Qt
		COMPONENT REVISED SINCE LAST EDITION ARE MARKED *		C14	J706959P1	CAP PYES 0.1UF 100V	1
				C15	J706959P1	CAP PYES 0.1UF 100V	1
				C16	A701534P6	CAP TA SOL 4U7 20% 35V	1
A01	M905312G1	ASM BD PW PS 904	1	D01	A700025P5	DIO SI ZENR 4V7 5% 0,4W	1
A02	L855253G1	ASM BD PW	1	D02	A700025P8	DIO SI ZENR 6V8 5% 0,4W	1
				D03	A700025P8	DIO SI ZENR 6V8 5% 0,4W	1
				D04	J706023P1	DIO SI PWR BYW 29-50	1
				D05	J707044P1	DIO	1
D06	J706136P2	DIO, LED 'RED' CQV20-4	1	D07	J706030P4	DIO SI ZENR 16V 5% 1W	1
T01	J706961P1	TRANSFORMER MAINS 270VA	1	L02	K805253G1	ASM COIL, 150 UH	1
				L03	K805252G1	ASM COIL, 23 UH	1
		NON REFERENCED ITEMS		Q01	A700017P1	TSTR NPN SI BC 548A/B	1
	L855258G1	CHASSIS ASM	1	Q02	A700017P1	TSTR NPN SI BC 548A/B	1
	J707114G1	CABLE, POWER-	1	Q03	A700026P1	TSTR PNP SI BC 369	1
	J707114G2	CABLE, POWER-	1	Q04	J706015P1	TSTR NPN SI D44H8	1
	L855270P1	COVER	1	R01	A700019P43	RES DEPC 3K3 5% 1/4W	1
	J707001G1	KIT	1	R02	A700019P46	RES DEPC 5K6 5% 1/4W	1
	K805244G1	HEAT SINK	1	R03	A700019P64	RES DEPC 180K 5% 1/4W	1
	J706982P1	WASHER	2	R04	A700019P60	RES DEPC 82K 5% 1/4W	1
	J706961P2	MOUNTING DISC.	1	R05	A700019P53	RES DEPC 22K 5% 1/4W	1
	J706992P1	SPACER	4	R06	A700019P52	RES DEPC 18K 5% 1/4W	1
	J706999P1	PLATE, INSUL.-	1	R07	A700019P56	RES DEPC 39K 5% 1/4W	1
	J706921P1	RETAINER	1	R08	A700019P25	RES DEPC 100R 5% 1/4W	1
	J707000P1	NAME PLATE	1	R09	J706251P37	RES DEPC 1K0 5% 1/1W	1
	J706961P3	MOUNTING WASHER, RUBB.-	2	R10	A700019P19	RES DEPC 33R 5% 1/4W	1
	K805023P1	GROMMET	1	R11	A700019P72	RES DEPC 820K 5% 1/4W	1
	J706968P1	CABLE ASSY POWER 2-COND	1	R12	A700019P60	RES DEPC 82K 5% 1/4W	1
	J706902P1	CLAMP, CA	1	R13	A700019P72	RES DEPC 820K 5% 1/4W	1
	J706902P2	CLAMP, CA	1	R14	A700019P41	RES DEPC 2K2 5% 1/4W	1
	A700031P305	SCREW PAN HD M-2.5 X 5.0	2	R15	A701250P230	RES DEPC 2K0 1% 1/4W	1
	A700031P310	SCREW PAN HD M-2.5 X 10.0	2	R16	A700019P13	RES DEPC 10R 5% 1/4W	1
	A700031P406	SCREW PAN HD M-3.0 X 6.0	10	R17	J706891P1	RES CONST 0.030 OHM	1
	A700031P413	SCREW PAN HD M-3.0 X 13.0	2	R18	A700019P34	RES DEPC 560R 5% 1/4W	1
	A700031P760	SCREW PAN HD M-5.0 X 60.0 *	1	S01	J706998P13	FUSE CTG 10.0A	1
	A700032P5	WASHER LOK TOH D-3.0	2	U01	J706018P1	IC LIN CMPAR 3302	1
	A700033P7	WASHER LOK TOH D-4.30 X 9.00	1			NON REFERENCED ITEMS	
	A700034P6	NUT HEX M-4.0 X 0.70	1		J706903P1	HOLDER, FUSE-	1
	A700034P7	NUT HEX M-5.0 X 0.80	1		J706904P1	TERM SLD TAB 2 X 10MM	2
	A700036P406	SCREW PAN HD M-3.0 X 6.0	0		J706973P1	TERM,SLD 2.3 SQ HOLE	4
	A701502P1	BMPR	4		J706977P1	TERM SLD D 5 BEND	4
	A701847P205	SCREW THR FORM	2		A700068P1	BUSH, INSUL.-	2
	J706076P5	WASHER SPG 3.0 X 6.4	4		A700115P3	PLATE, INSUL.-	2
	A701312P7	WASHER FLAT D-5.3 X 10.00 *	1		K805245P1	HOLDER	1
					A701983P2	WASH NON MET 3.10 X 6.001 *	2
A01	M905312G1	BD PW C9PS904					
C01	A700001P11	CAP CER 4N7 50V	1	A02	L855253G1	ASM BD PW	
C02	J706005P14	CAP ELEC 220U 40V	1		J706904P1	TERM SLD TAB 2 X 10MM	4
C03	J706957P2	CAP ELECT 10.000MF 40V	1		J706951P1	SPACER	2
C04	A701534P4	CAP TA SOL 1U0 20% 35V	1		J706973P1	TERM,SLD 2.3 SQ HOLE	3
C05	A701534P6	CAP TA SOL 4U7 20% 35V	1		J706981P1	TERM	2
C06	A700234P2	CAP PYES 1N5 10% 50V	1		K805236P1	SUPPORT	1
C07	A700233P9	CAP CER 2N2 10% 50V	1		K805247G1	ASM CONN	1
C08	J706005P7	CAP ELEC 1000U 16V	1		M905311P1	BD PW,	1
C09	J706005P10	CAP ELEC 220U 25V	1				
C10	A700001P11	CAP CER 4,7NF 50V	1				
C11	J706959P1	CAP PYES 0.1UF 100V	1				
C12	J706959P1	CAP PYES 0.1UF 100V	1				
C13	J706959P1	CAP PYES 0.1UF 100V	1				

CHAPTER 9

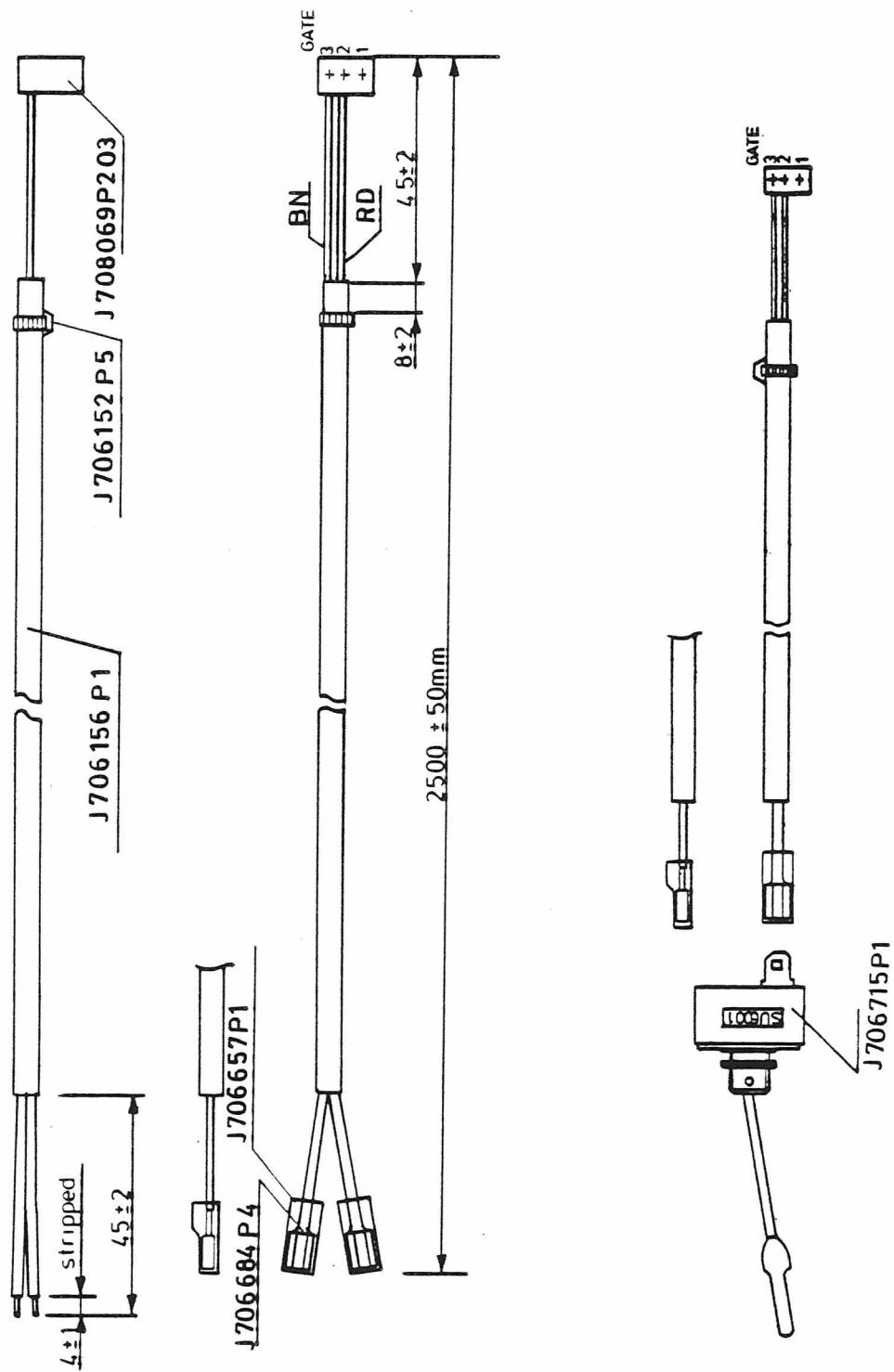
SWITCHING UNITS

SWITCHING UNITS SU600X

- SU6001
- SU6002



SWITCH UNIT ASM. SU6001
K805200G2



ITEM NUMBER	DESCRIPTION
K805200G2	SU 6001 ASM
=====	
K805199G2	SUB ASM.: CABLE ASM

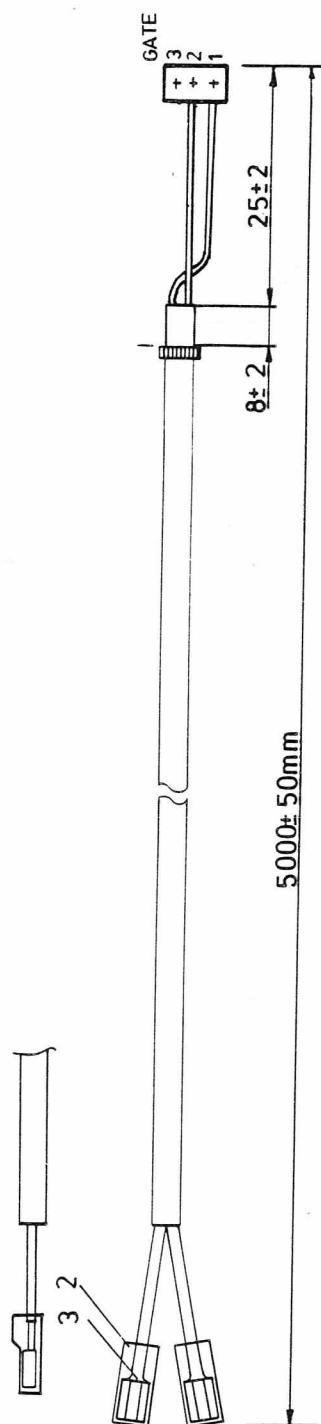
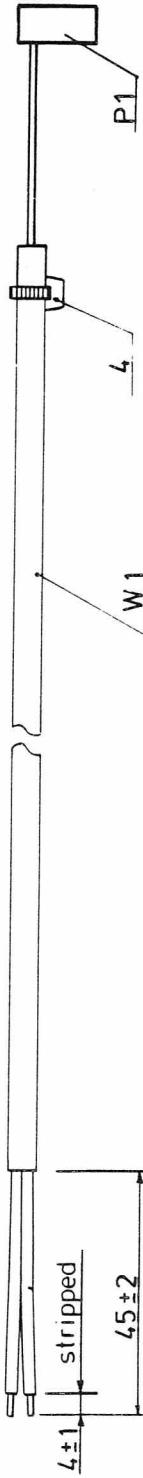
P A R T S L I S T :

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
S001	J706715P1	SW TGL SINGLE POLE 3A/24V	1
0002	K805199G2	CABLE ASM	1 (SEE BELOW)
0003	J706307P43	NAME PLATE SU6001	1

0002 :	K805199G2 :	CABLE ASM., :	
P001	J708069P203	CONNECTOR FEM	1
W001	J706156P1	CABLE	2,50 M
0002	J706657P1	INS BOOT	2
0003	J706684P4	TERM SPADE RECP 6.3MM	2
0004	J706152P5	STRAP RET W BDL D19 NYL	1

Storno

Storno



COLOR CODE
IEC 304

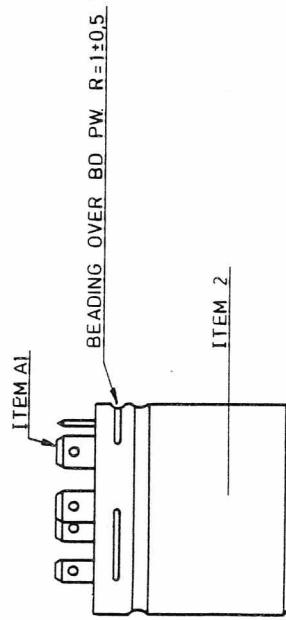
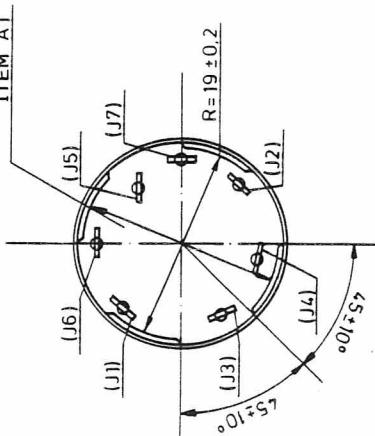
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE

CABLE ASSEMBLY FOR SU6002

K805204 G2

SEE PART LIST X404. 120

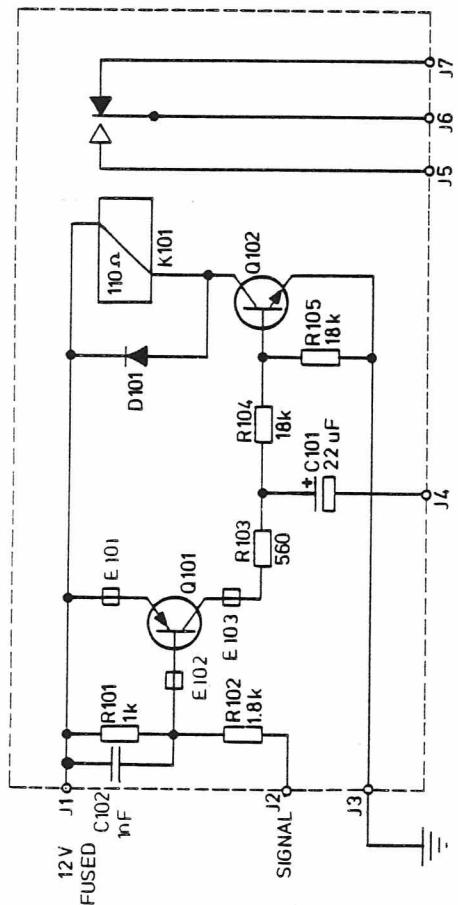
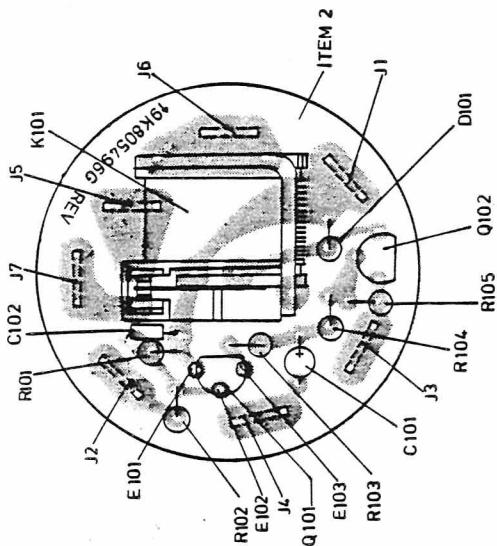
IEC 304 color code	In conn. gate no.	Remarks
1	2	
2	1	



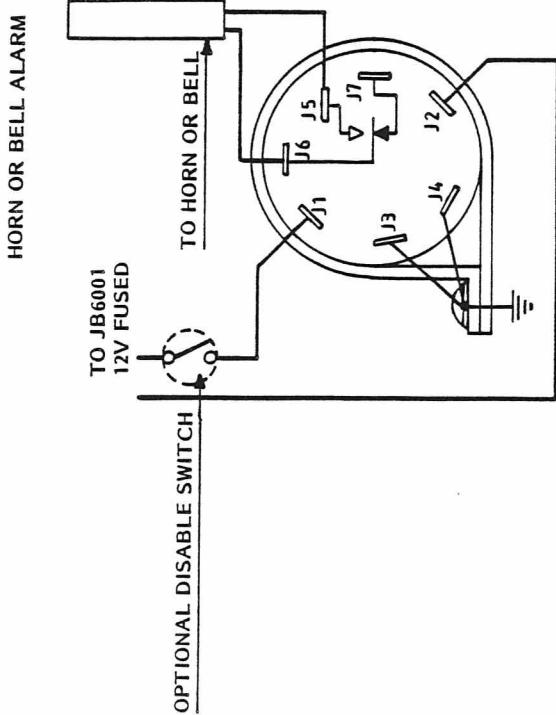
SEE PART LIST X404. 120

SWITCH UNIT ASM. SU6002
K805495G2 **M405 227/2**

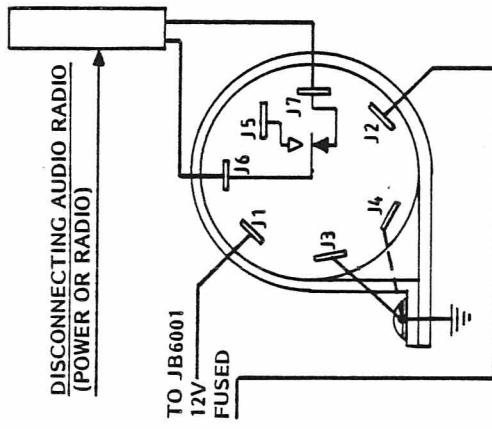
Storno



INSTALLATION FOR CQM6000



AUTO RADIO MUTING



J1 brown from JB6001
J2 red from JB6001
J3 ground
J4 -
J5 ground
J6 horn
J7 -

J1 brown from JB6001
J2 red from JB6001
J3 ground
J4 -
J5 -
J6 auto radio
J7 auto radio

SWITCHING UNIT SU6002
CODE NO. K805495G2
D404.176/2

D404.176/2

ITEM NUMBER	DESCRIPTION
K805495G2	SWITCH UNIT ASM SU 6002
K805496G1	SUB. ASM.: - A001: COMPONENT BD PW
J706813G2	SUB. ASM.: - KIT, ASM.- SU 6002
K805204G2	SUB.-SUB. ASM.: -CABLE,- SU 6002

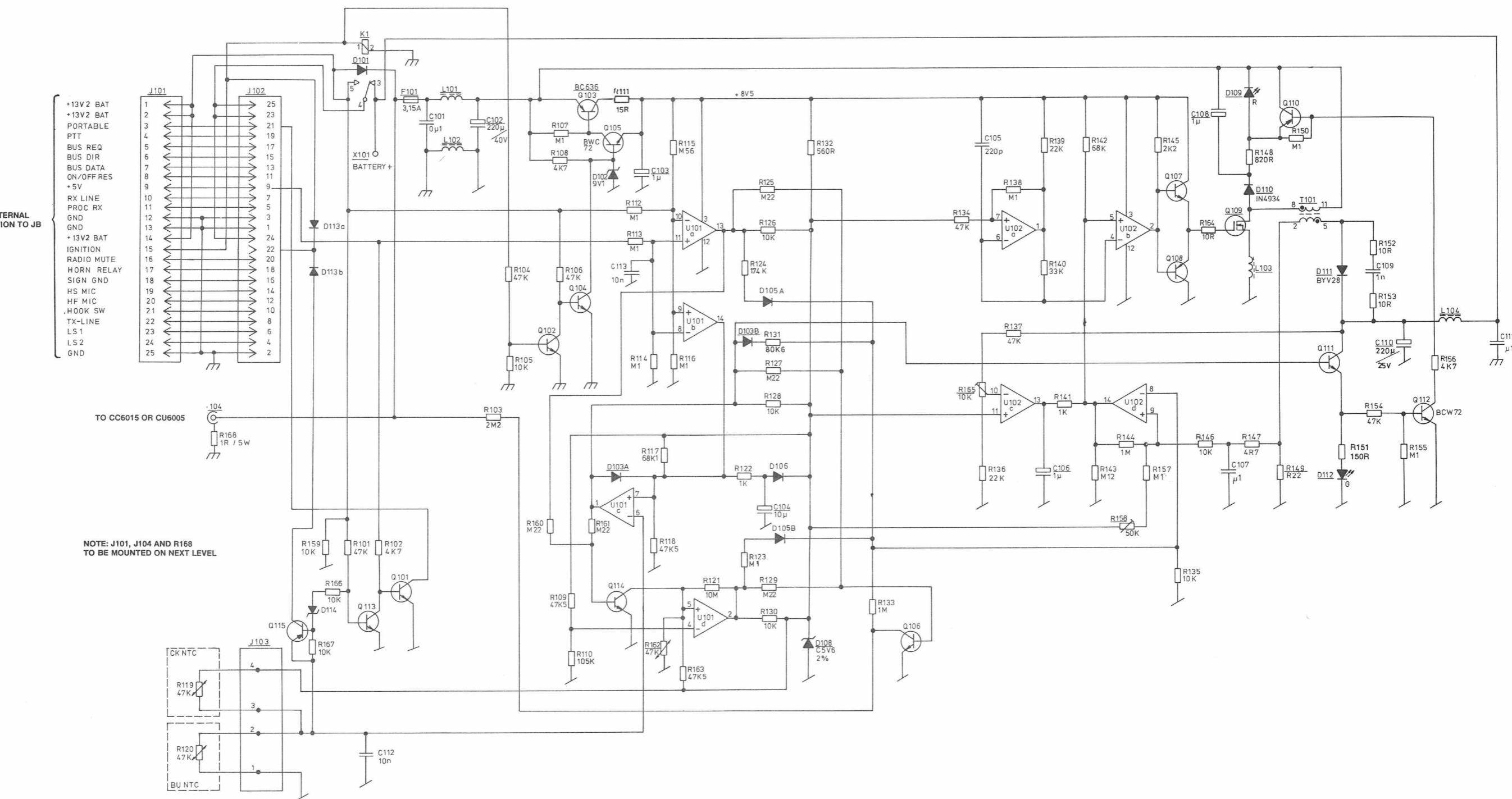
P A R T S L I S T :

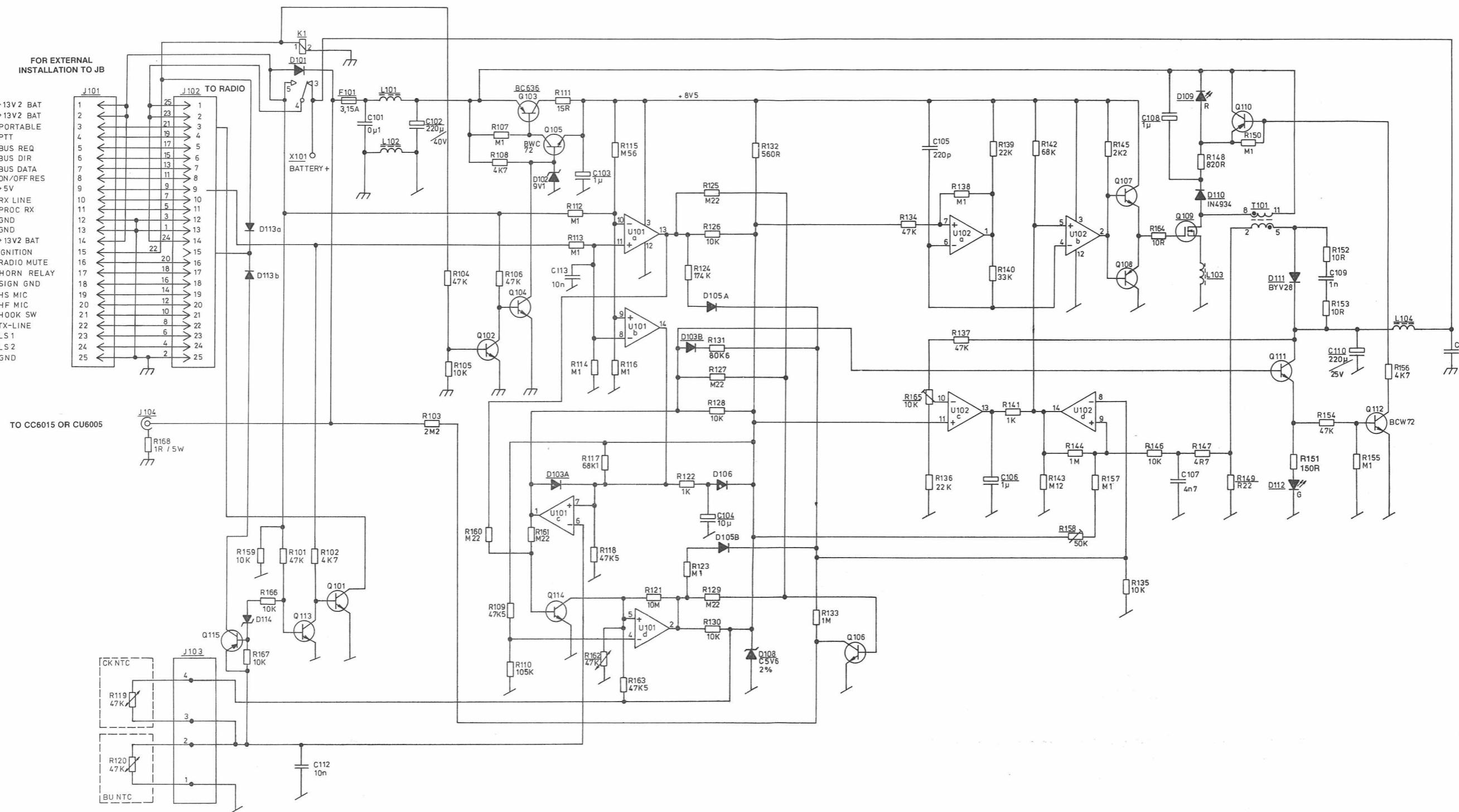
CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
A001	K805496G1	COMPONENT BD PW	1 (SEE BELOW)
0002	J706685P1	CAN	1
0003	J706813G2	KIT, ASM.- F. SU 6002	1 (SEE BELOW)
0004	J706307P44	NAME PLATE : SU 6002	1
0005	J708301P1	CASTING, PEU RESIN-	0.050 KG
0006	J708301P2	CASTING, PEU RESIN-	0.010 KG

A001 : K805496G1 : COMPONENT BD PW :

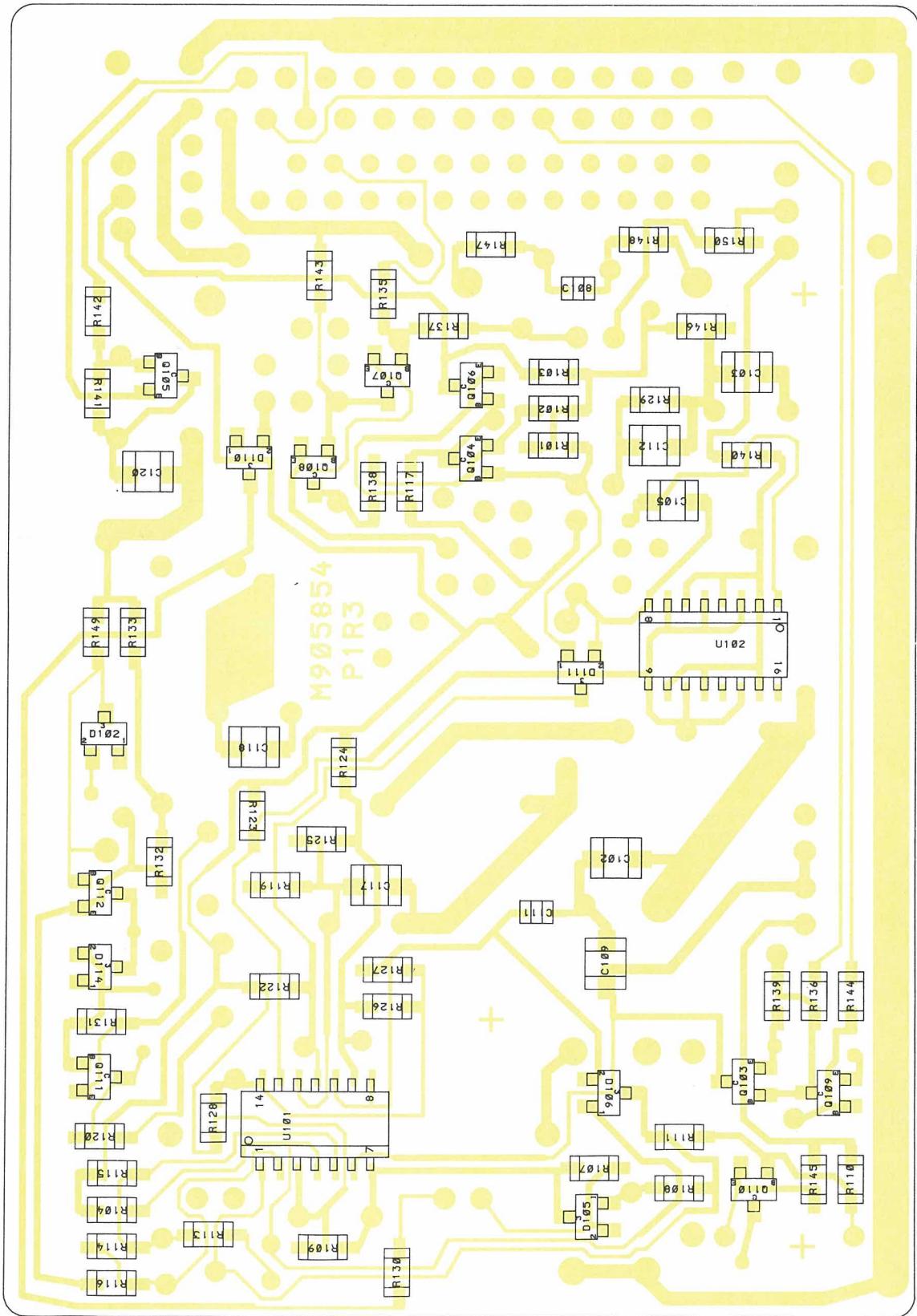
C101	A700003P8	CAP TA SOL 22U 20% 16V	1
C102	A700233P7	CAP CER CL2 1N0 20% 50V	1
D101	A700028P1	DIO SI SIG 1N4148	1
E101	J706002P3	CORE TOR FERR	1
E102	J706002P3	CORE TOR FERR	1
E103	J706002P3	CORE TOR FERR	1
J001	J706683P1	TABS RECP L=16.5 MM	1
J002	J706683P1	TABS RECP L=16.5 MM	1
J003	J706683P1	TABS RECP L=16.5 MM	1
J004	J706683P1	TABS RECP L=16.5 MM	1
J005	J706683P1	TABS RECP L=16.5 MM	1
J006	J706683P1	TABS RECP L=16.5 MM	1
J007	J706683P1	TABS RECP L=16.5 MM	1
K101	J708281P1	RELAY OPEN 110R 12V	1
Q101	A700020P1	TSTR PNP SI , BC 558A/B	1
Q102	J706133P1	TSTR NPN MPS-A13	1
R101	A700019P37	RES DEPC 1K0 5% 1/4W	1
R102	A700019P40	RES DEPC 1K8 5% 1/4W	1
R103	A700019P34	RES DEPC 560R 5% 1/4W	1
R104	A700019P52	RES DEPC 18K 5% 1/4W	1

CIRCUIT POSITION	COMPONENT ITEM NUMBER	COMPONENT DESCRIPTION	QUANTITY
R105	A700019P52	RES DEPC 18K 5% 1/4W	1
0002	K8-----P1R0	BD PW., REVISION NO.: 0	1
0003 :	J706813G2 :	KIT, ASM.- F.: SU 6002 :	
0001	J706795P5	BRACKET, MOUNTING-	1
0002	A701507P606	SCREW PAN HD SZ-3.5 X 9.6 AB	1
0003	K805204G2	CABLE ASM., F. SU 6002	1
0004	J706657P1	BOOT, INSULATING-	2
0005	J706684P4	TERM SPADE RECP 6.3MM	2
0006	J708361G1	CABLE ASM., F. SU 6002	2
0003 :	K805204G2 :	CABLE ASM., F. SU 6002 :	
P001	J708069P203	CONN. PWB. FEMALE	1
W001	J706156P1	CABLE	5.0 M
0002	J706657P1	BOOT, INSUL.-	2
0003	J706684P4	TERM. SPADE - RECP. 6.3 MM	2
0004	J706152P5	STRAP, RET.- W. BDL D19 NYL.	1
0006 :	J708361G1 :	CABLE ASM. , F. SU 6002 :	
W001	A700167P10	STD. WIRE, 'BLACK'	0,10 M
0001	J708361P1	ASM., CABLE-	1
0002	J706657P1	BOOT, INSULATING-	1
0003	J706684P4	TERMINAL, SPADE RECP 6.3 MM	1
0004	J708378P1	TERMINAL, RING TONGUE-	1





Storno



CHARGING UNIT CU6001
COMPONENT LAYOUT CHIP SIDE

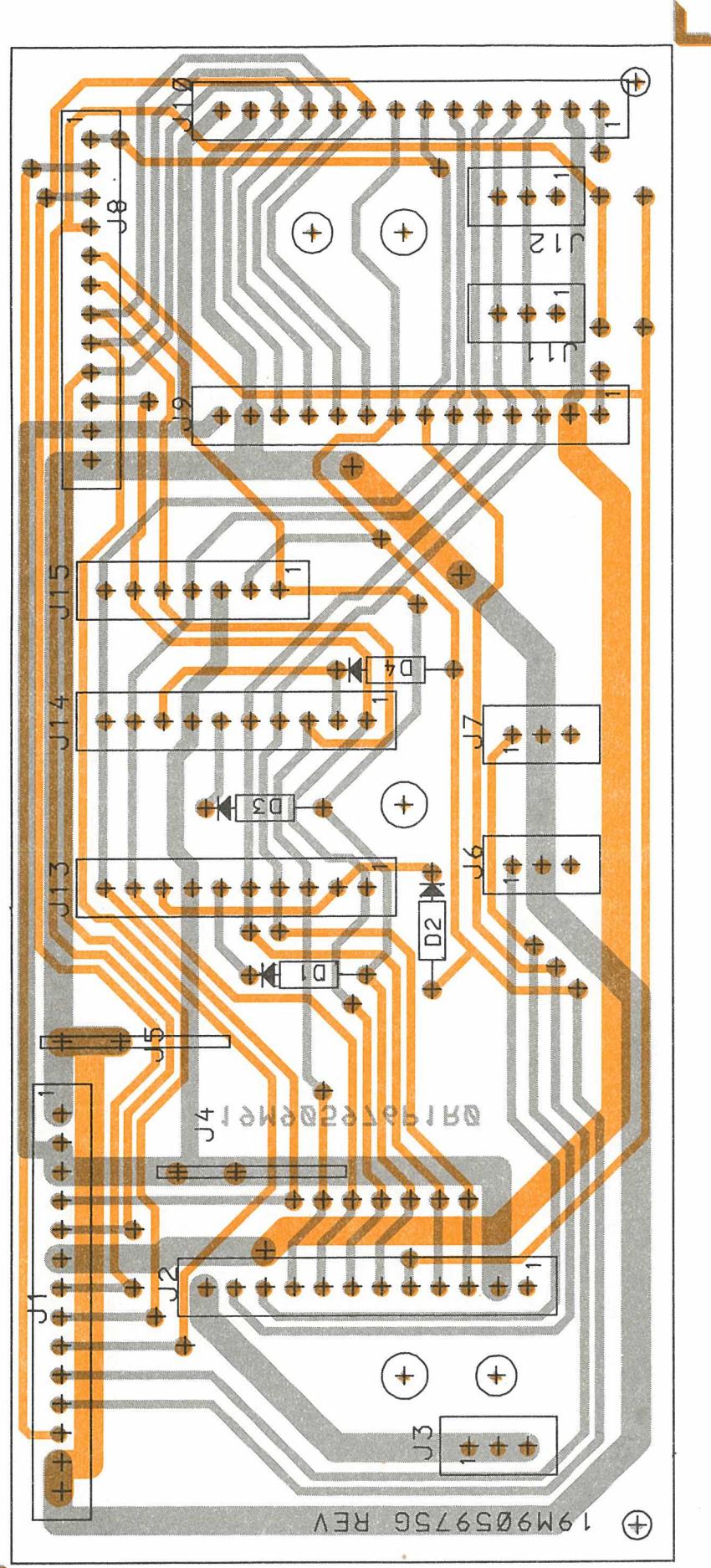
D404.499

REV. 3

CODE NO. K805741G1

CODE NO. M905853G1
MOUNTED BOARD

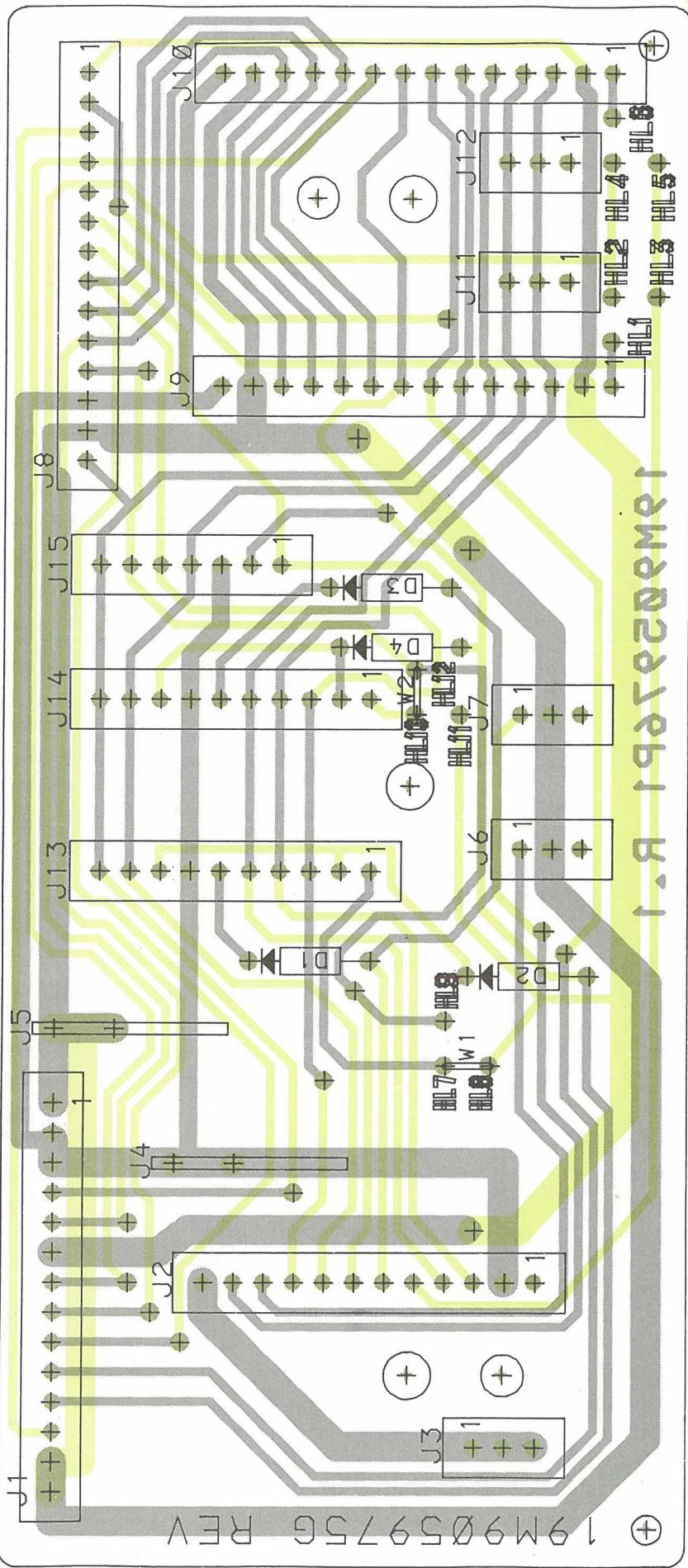
Storno



MOUNTED BOARD CODE NO. M905975G1
MODULE CODE NO. L855768G1

JUNCTION BOX JB6001
COMPONENT LAYOUT

D404.155



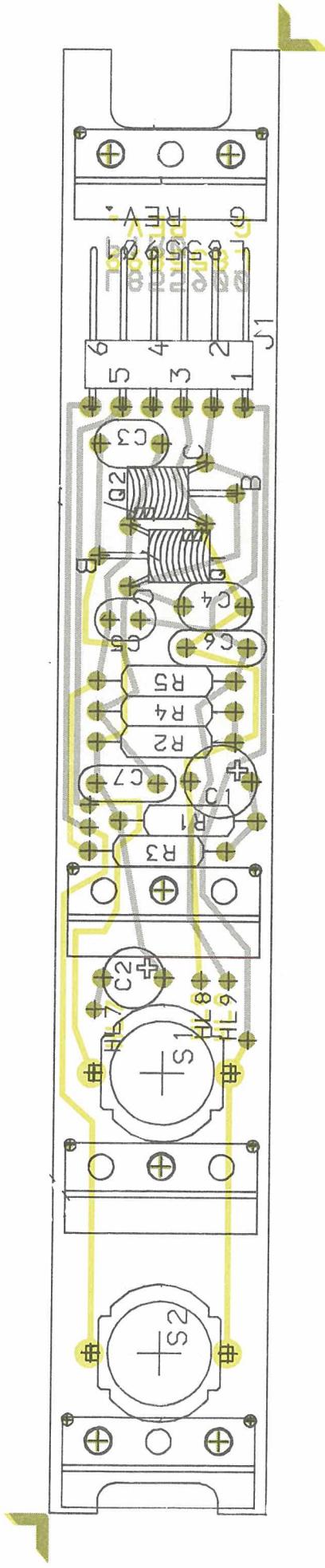
NOTE:
D₃, D₄, J₈, J₁₁, J₁₄, J₁₅ AND
W₂ ONLY IN G₃

MOUNTED BOARD CODE NO. M905975G3 } JB6001
MODULE CODE NO. L855768G3 }

MOUNTED BOARD CODE NO. M905975G4 } JB6002
MODULE CODE NO. L855768G4 }

JUNCTION BOX JB 6001/2
COMPONENT LAYOUT
REV. 1 D404.560

Storno

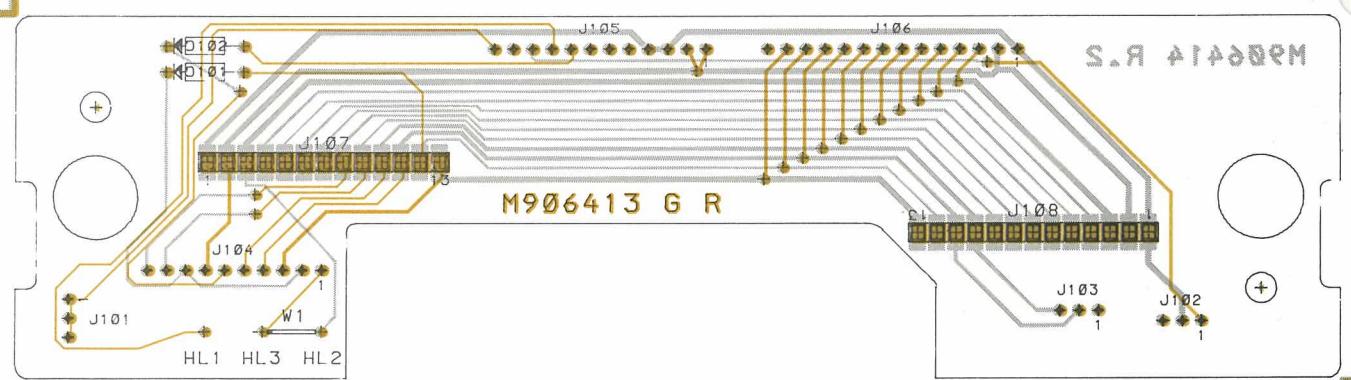
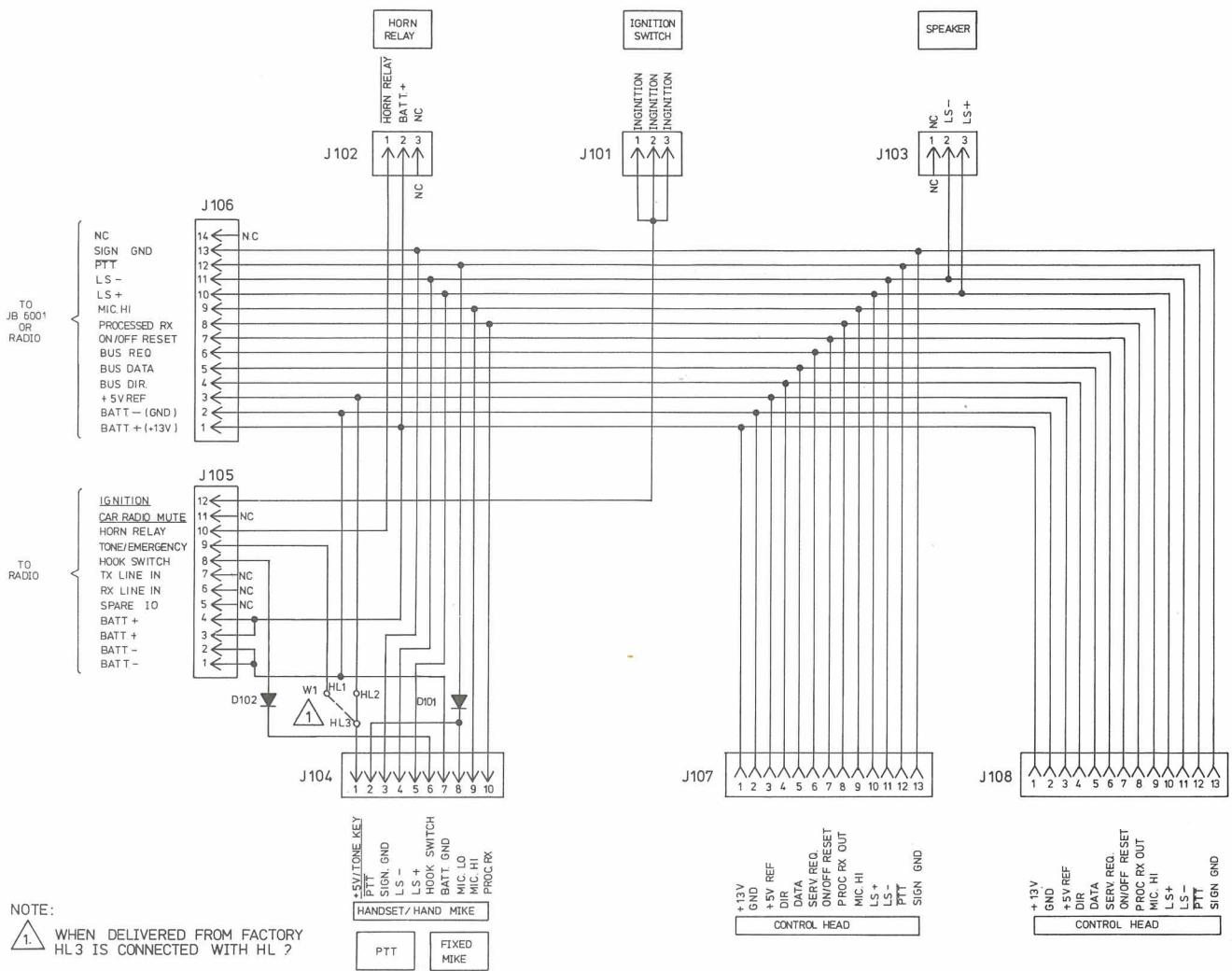


CODE NO. L855899G2-MC6002

CODE NO. L855899G1-MC6001

MICROPHONE MC6001 AND MC6002
COMPONENT LAYOUT

D404, 332

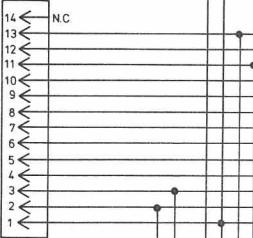


JUNCTION BOARD FOR MN601
CODE NO. M906413G1 REV. 2/A D404.801/3

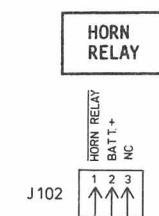
TO JB6001 OR RADIO

NC
SIGN GND
PTT
LS -
LS +
MIC.HI
PROCESSED RX
ON/OFF RESET
BUS REQ
BUS DATA
BUS DIR
+ 5V REF
BATT - (GND)
BATT. + (+13V)

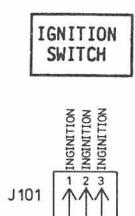
J106



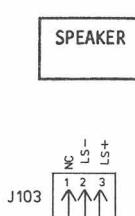
HORN RELAY



IGNITION SWITCH



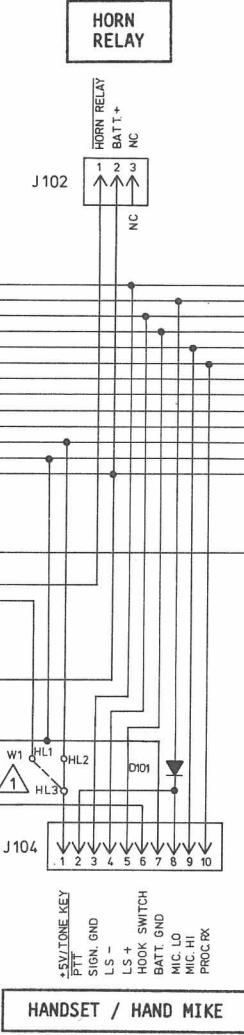
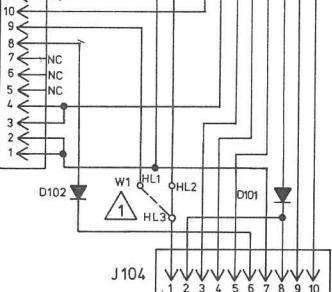
SPEAKER



TO RADIO

IGNITION
CAR RADIO MUTE
HORN RELAY
TONE/EMERGENCY
HOOK SWITCH
TX LINE IN
RX LINE IN
SPARE IO
BATT +
BATT. +
BATT -
BATT. -

J105



J107

J108

HANDSET / HAND MIKE

PTT

FIXED MIKE

+13V
GND
+5V REF
DIR
DATA
SERV REQ
ON/OFF RESET
PROC RX OUT
MIC HI
LS +
PTT
SIGN GND

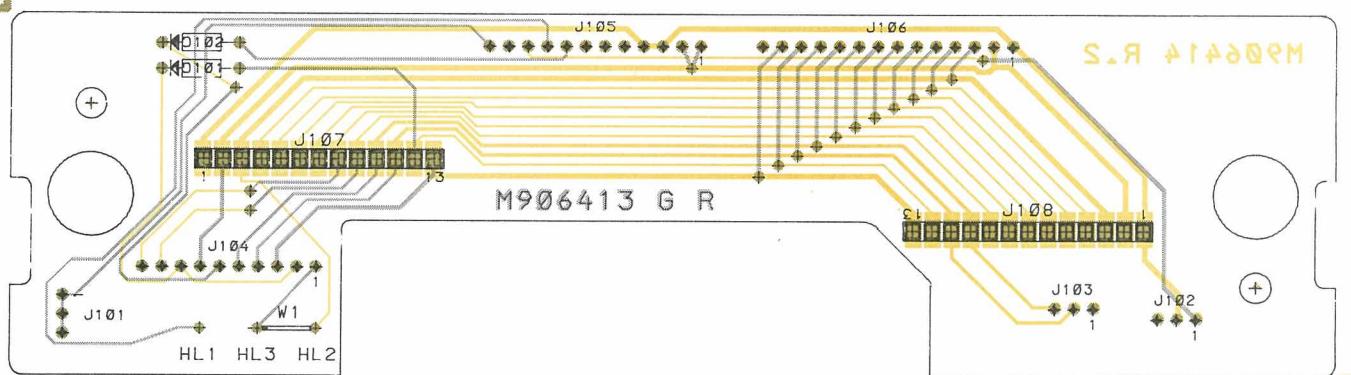
CONTROL HEAD

+13V
GND
+5V REF
DIR
DATA
SERV REQ
ON/OFF RESET
PROC RX OUT
MIC HI
LS +
PTT
SIGN GND

CONTROL HEAD

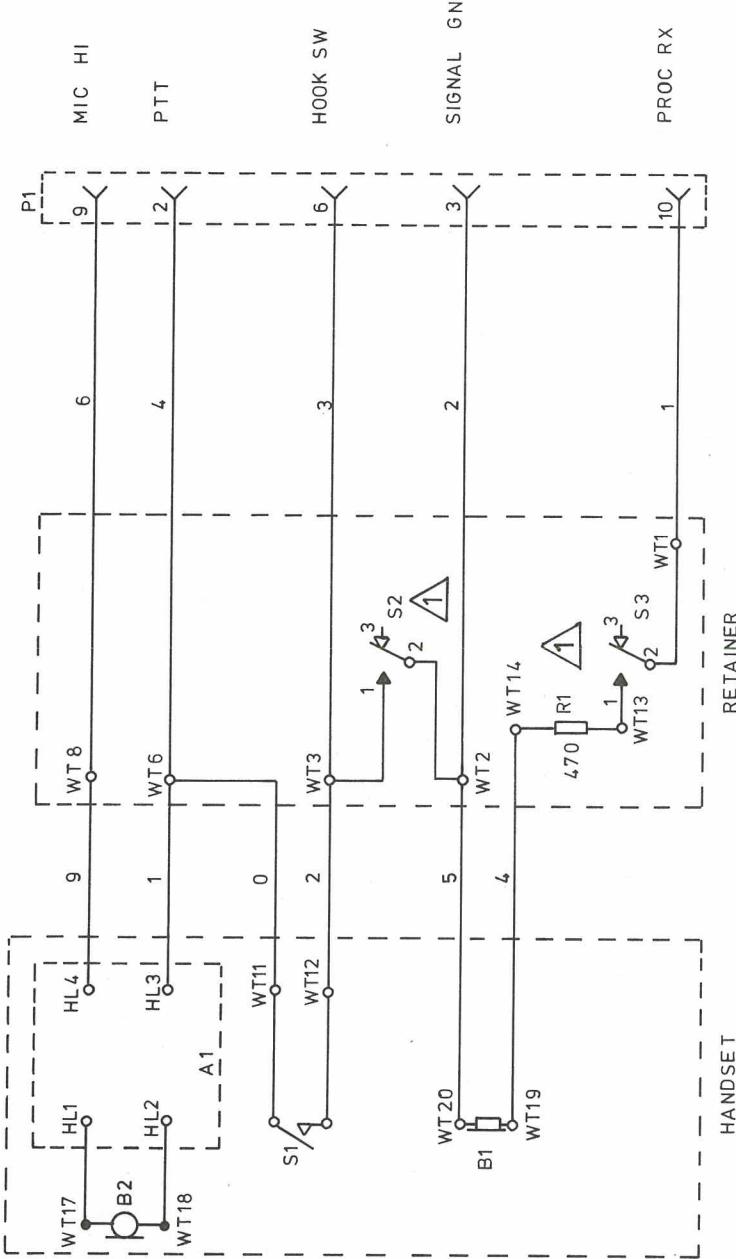
NOTE:

1. WHEN DELIVERED FROM FACTORY
HL3 IS CONNECTED WITH HL2

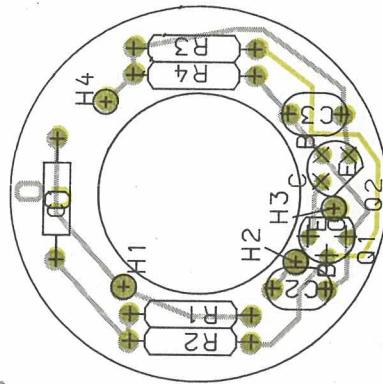


JUNCTION BOARD FOR MN6013
CODE NO. M906413G1 REV. 2/A D404.801/4

Storno



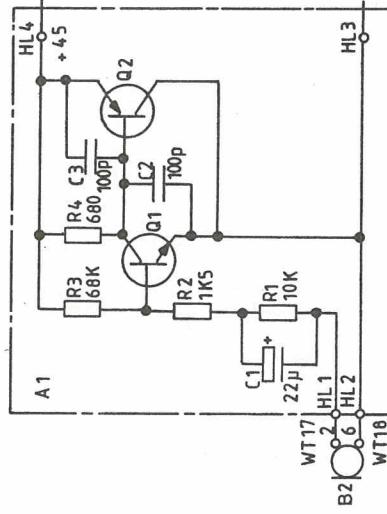
COLOR CODE IEC 304	
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



HANDSET MT6001
AND RETAINER CONNECTIONS

D404.217

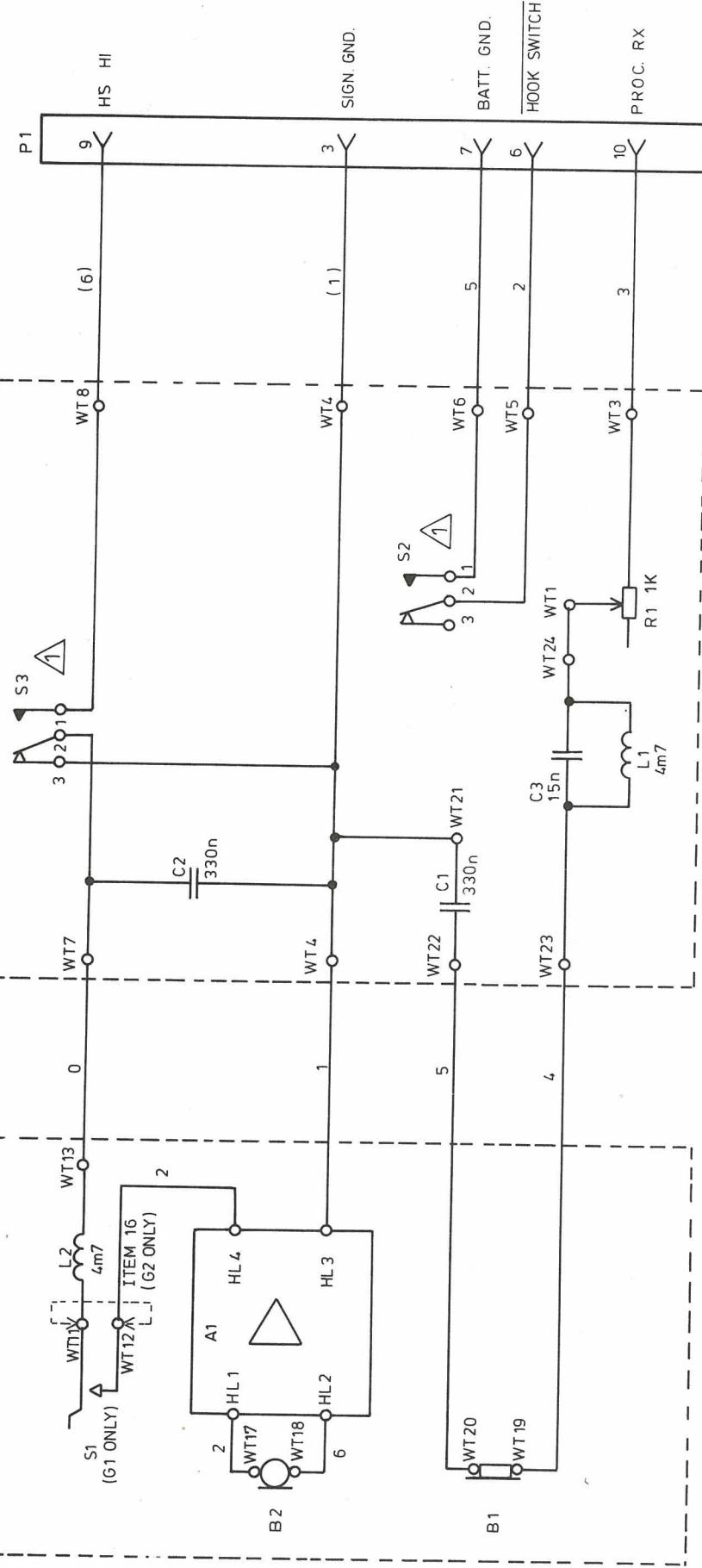
NOTE : △ S2 AND S3 SHOWN WITH HANDSET
IN RETAINER,
IEC 304 COLOR CODES ON WIRES.



Storno

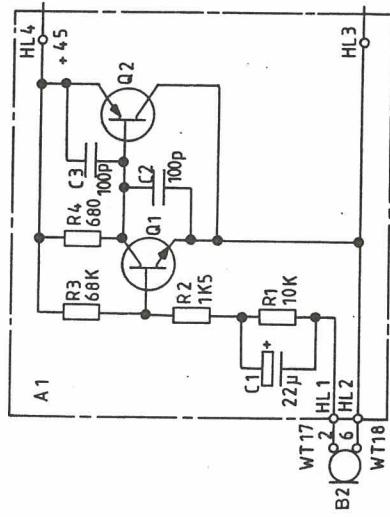
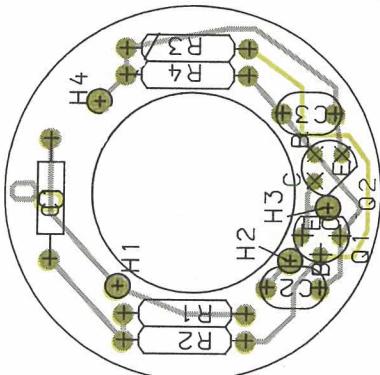
Storno

Storno



NOTE : △ S2 AND S3 SHOWN WITH HANDSET IN RETAINER.
IEC 304 COLOR CODES ON WIRES.

COLOR CODE	IEC 304
0	BLACK
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	GREY
9	WHITE



HANDSET MT6005/6
AND RETAINER CONNECTIONS

D404.216