

Declaration of Conformity

We, Thomson Broadcast Solutions Nederland B.V., Kapittelweg 10, 4827 HG Breda, The Netherlands declare under our sole responsibility that this product is in compliance with the following standards:

- EN60065 : Safety
- EN55103-1 : EMC (Emission)
- EN55103-2 : EMC (Immunity)

following the provisions of:

- a. the Safety Directives 73/23/EEC and 93/68/EEC
- b. the EMC Directives 89/336/EEC and 93/68/EEC

FCC Class A Statement

This product generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause interference to radio communications.

It has been tested and found to comply with the limits for a class A computing device pursuant to Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this product in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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SOMMAIRE / CONTENTS

The MCP unit is fitted with a MSP (47232140AA) and a OCP50 (B1500509AA).
The CAP unit (B1500H01AA) is optional.

CHAPTER 1

MSP	3
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CHAPTER 2

OCP 50	5
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CHAPTER 3

CAP	7
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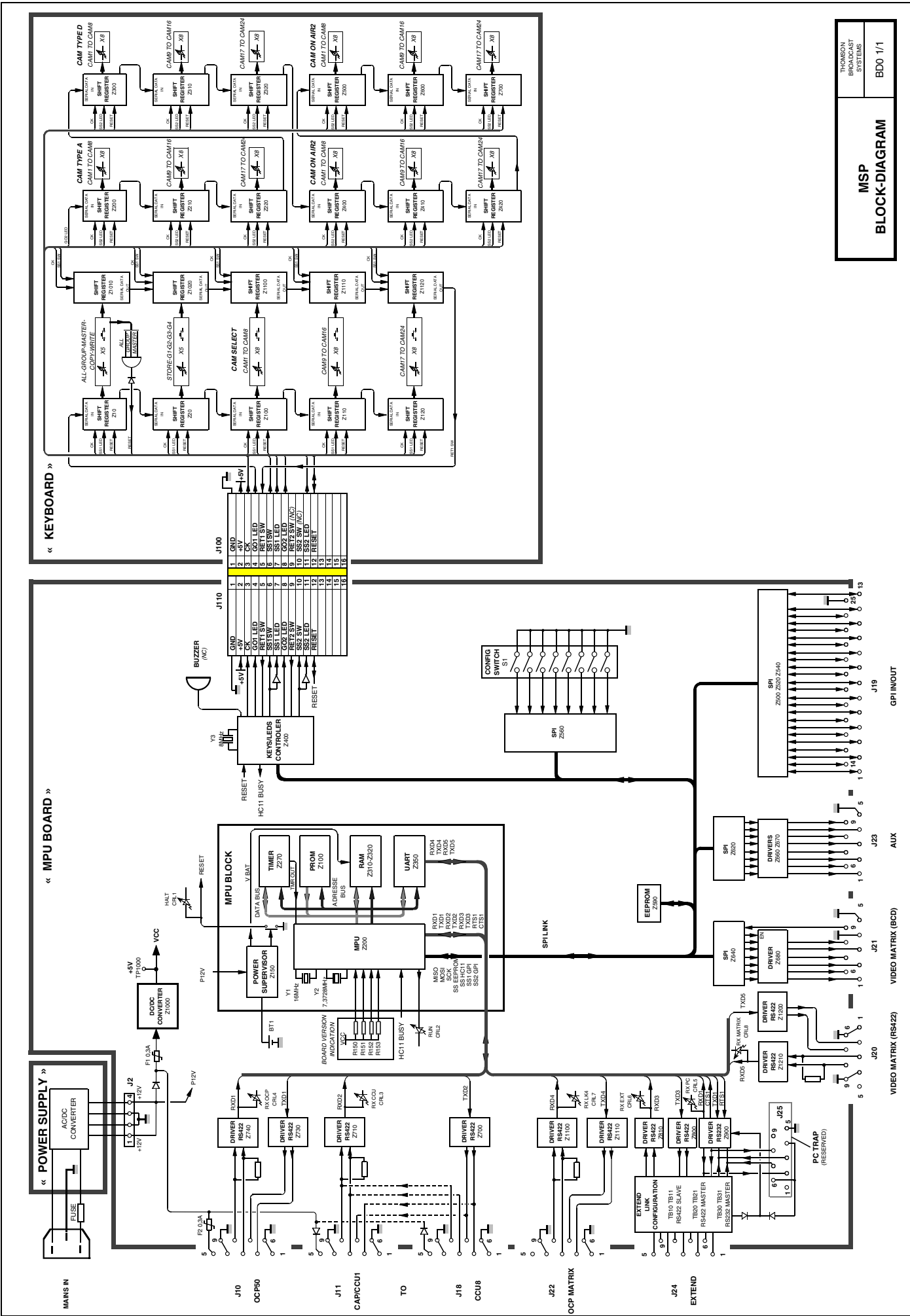
Chapter 1

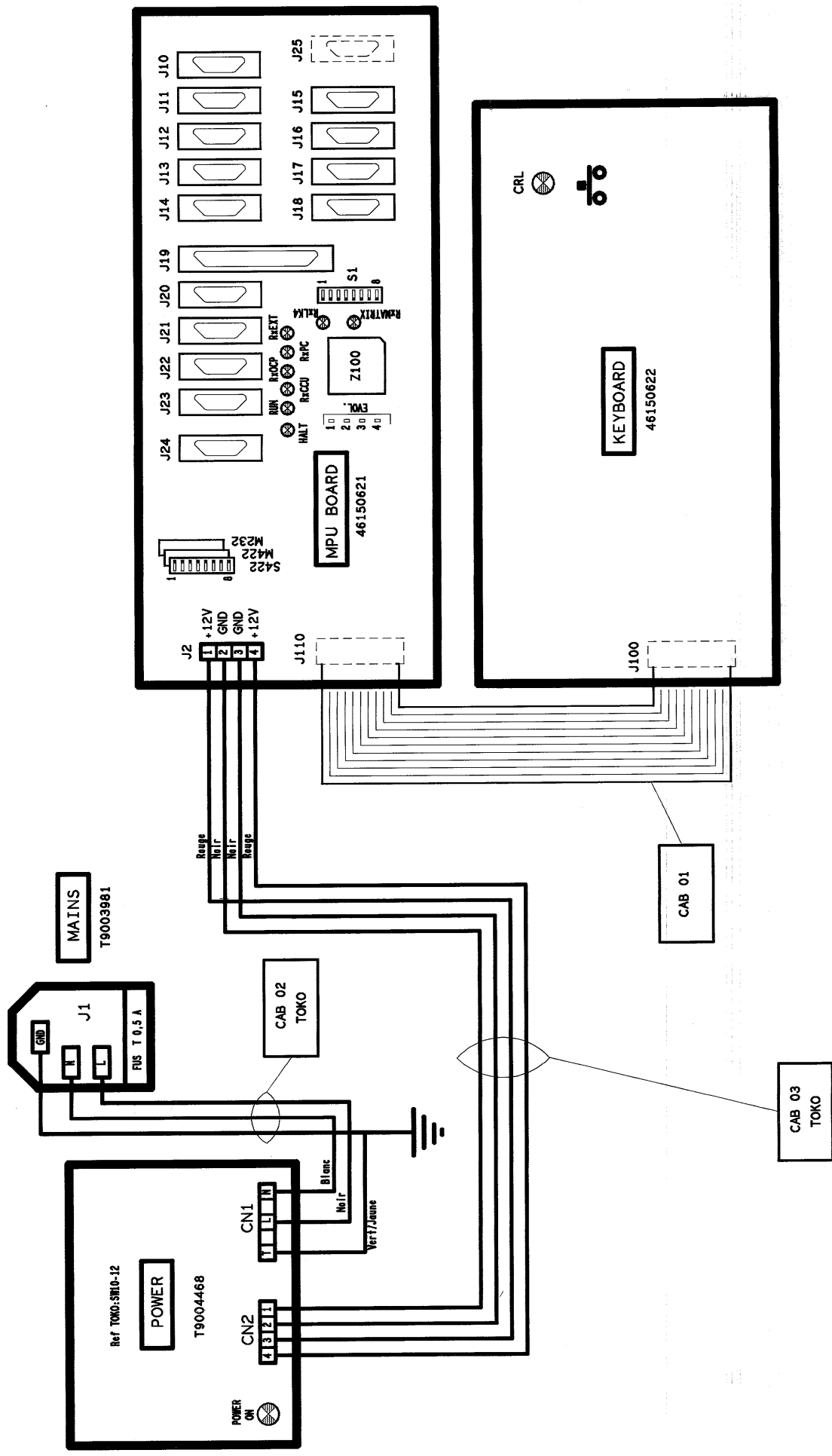
MSP

MSP			47232140AA
	Schematic	Layout	Part list
BLOCK DIAGRAM	BD0 1/1		
INTERCONNECTION	47232140/B-050		47232140AA
ASSEMBLED MSP	47232140/D-040		47232140AA
MAINS POWER CABLE	47232295/A-050		47232295AA
MPU POWER CABLE	47232296/B-050		47232296AA
MPU BOARD	4A150621/D-030	4A150621/B-046	4A150621AA
KEY BOARD	4A150622/A-030	4A150622/A-046	4A150622AA

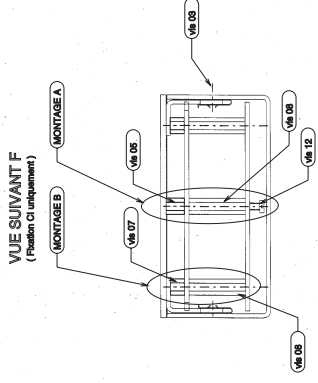
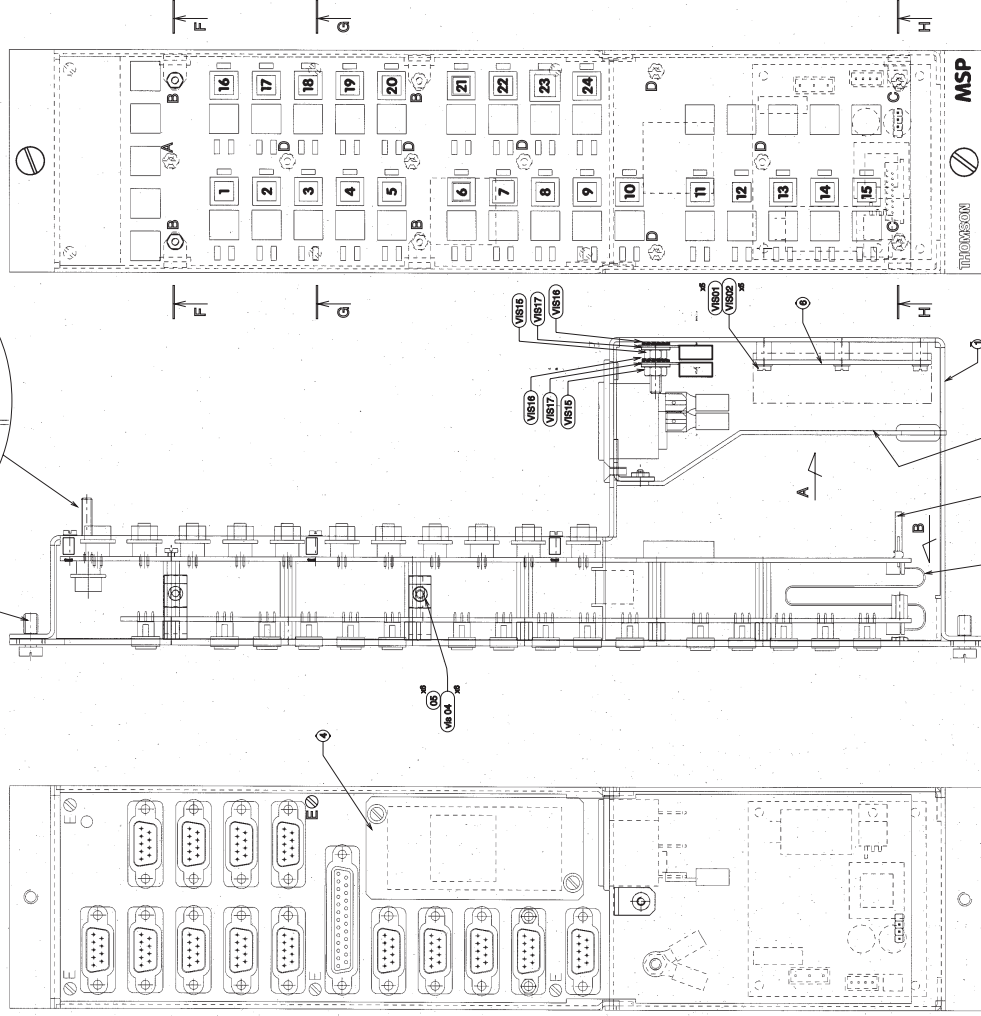
SITE: ZREF

Niv.	Composant	Rév	P/M	T	Fa	Description	Description	Qté	lien	UM
Compos	47232140AA	5	M			CHAS CHASSIS MSP	EQUIPE CABLE			EA
1	47033674AA	1	M			ETIM FUSE T 0.5A H 250V		1,0		EA
1	47232289AA	1	M	X	oui	ETIM SIGNALETIQUE MSP		1,0		EA
1	47232295AA	1	M	X	oui	CABL CABLE	SECTEUR-ALIMENTATION	1,0		EA
1	47232296AA	2	M	X	oui	CABL CABLE	ALIMENTATION-CARTE MPU	1,0		EA
1	4A150621AA	09	M			CART MPU BOARD MSP	-MP	1,0		EA
1	4A150622AA	1	M			CART KEY BOARD MSP		1,0		EA

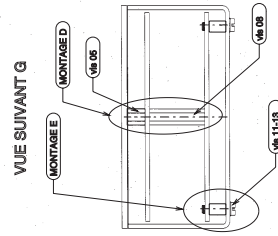




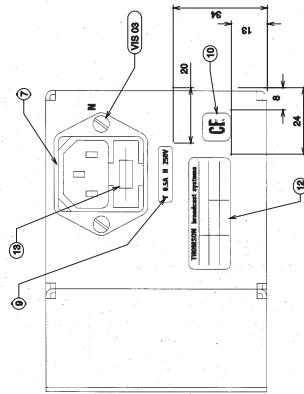
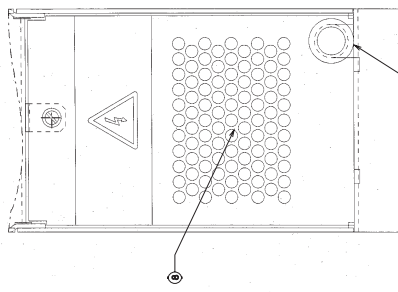
TITLE		INTERCONNECTION				MSP		
THOMSON		BROADCAST SYSTEMS		REV	CODE	SIZE	SHEET	
				B	050	3	01/01	
				DRAWING No 47232140				



VUE SUIVANT B



VUE SUIVANT H



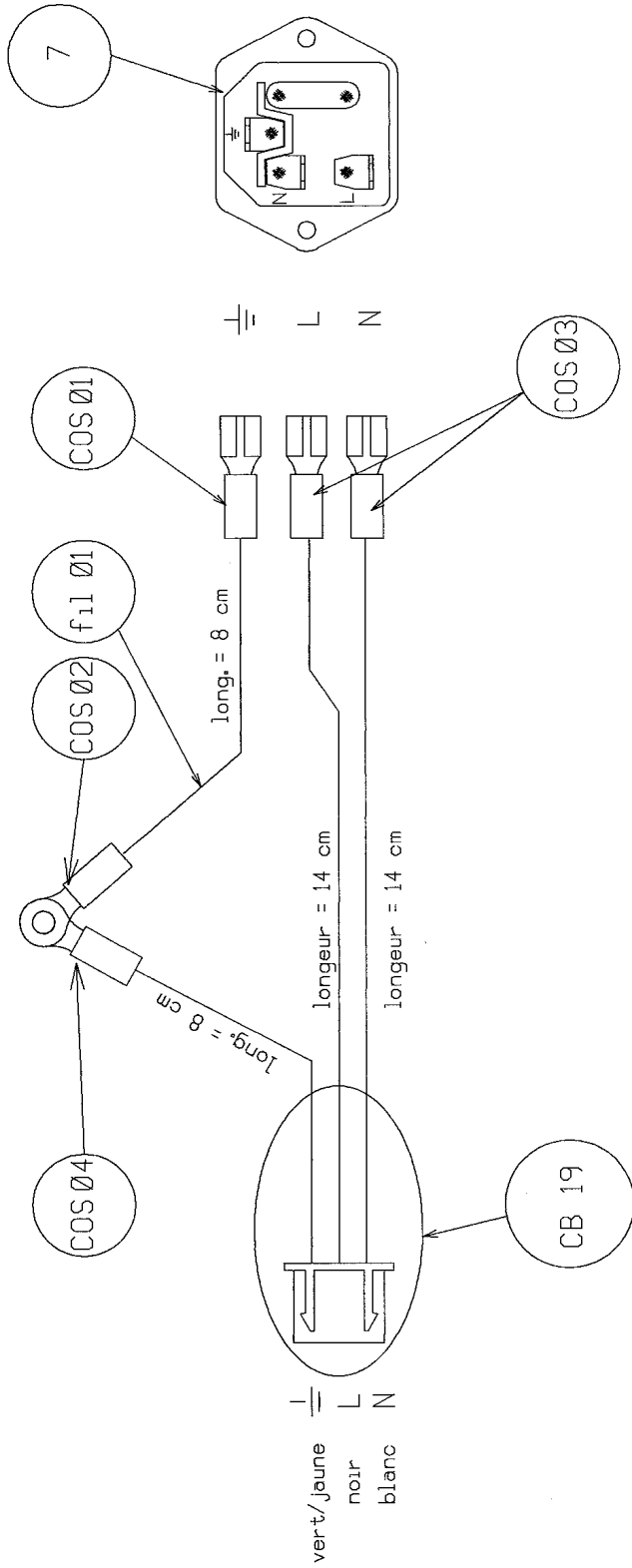
TITLE				ASSEMBLED MSP				MSP	
THOMSON BROADCAST SYSTEMS				DRAWING No	REV	CODE	SIZE	SHEET	
				47232140	D	040	1	01/01	

connecte sur **CN1**
ALIMENTATION

VERS

embase secteur

connecte sur
goujon masse chassis



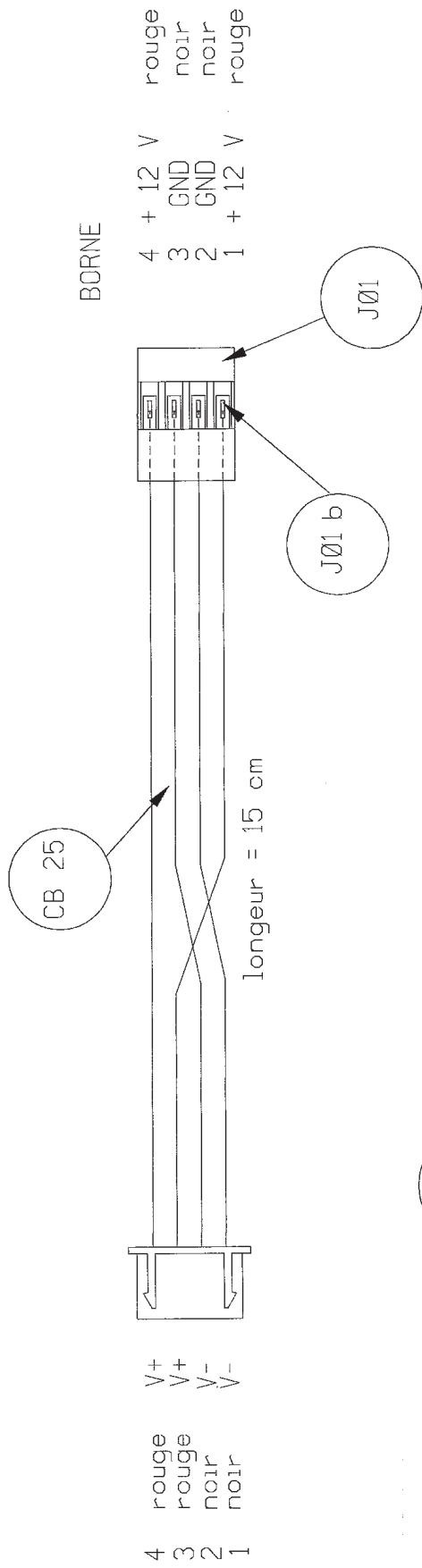
kit câble CB 19 (1connecteur + f1l vert/jaune + 1 fil noir + 1 fil blanc)
Conducteur section $0.34 \text{ mm}^2 = \text{AWG22}$

TITLE				MSP			
THOMSON BROADCAST SYSTEMS				MAINS POWER CABLE			
DRAWING No	REV	CODE	SIZE	SHEET			
47232295	A	050	3	01/01			

connecte sur **CN2**
ALIMENTATION

VERS

connecte sur
carte MPU

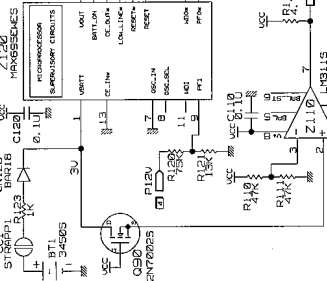


CB 25

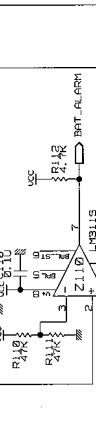
kit cable CB 25 (1connecteur + 2 fils rouge et 2 fils noir)
Conducteur section 0.34^2 mm = AWG22

TITLE				MSP			
MPU POWER CABLE							
THOMSON	BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET	
		47232296	B	050	3	01/01	

POWER SUPERVISOR



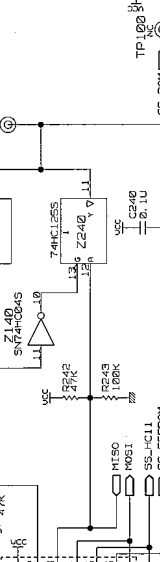
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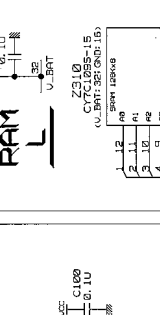
MPU BLOC



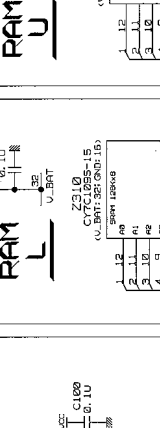
PROM



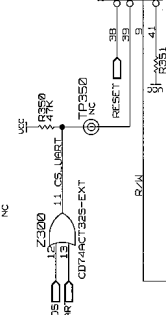
RAM L



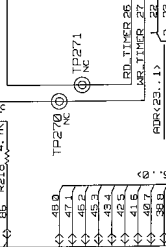
RAM U



UART



TIMER



EVOLUTION BOARD



TITLE	REV	DATE	SHEET	NO. OF SHEETS
THOMPSON BROADCAST	08-09-88		1	1/25

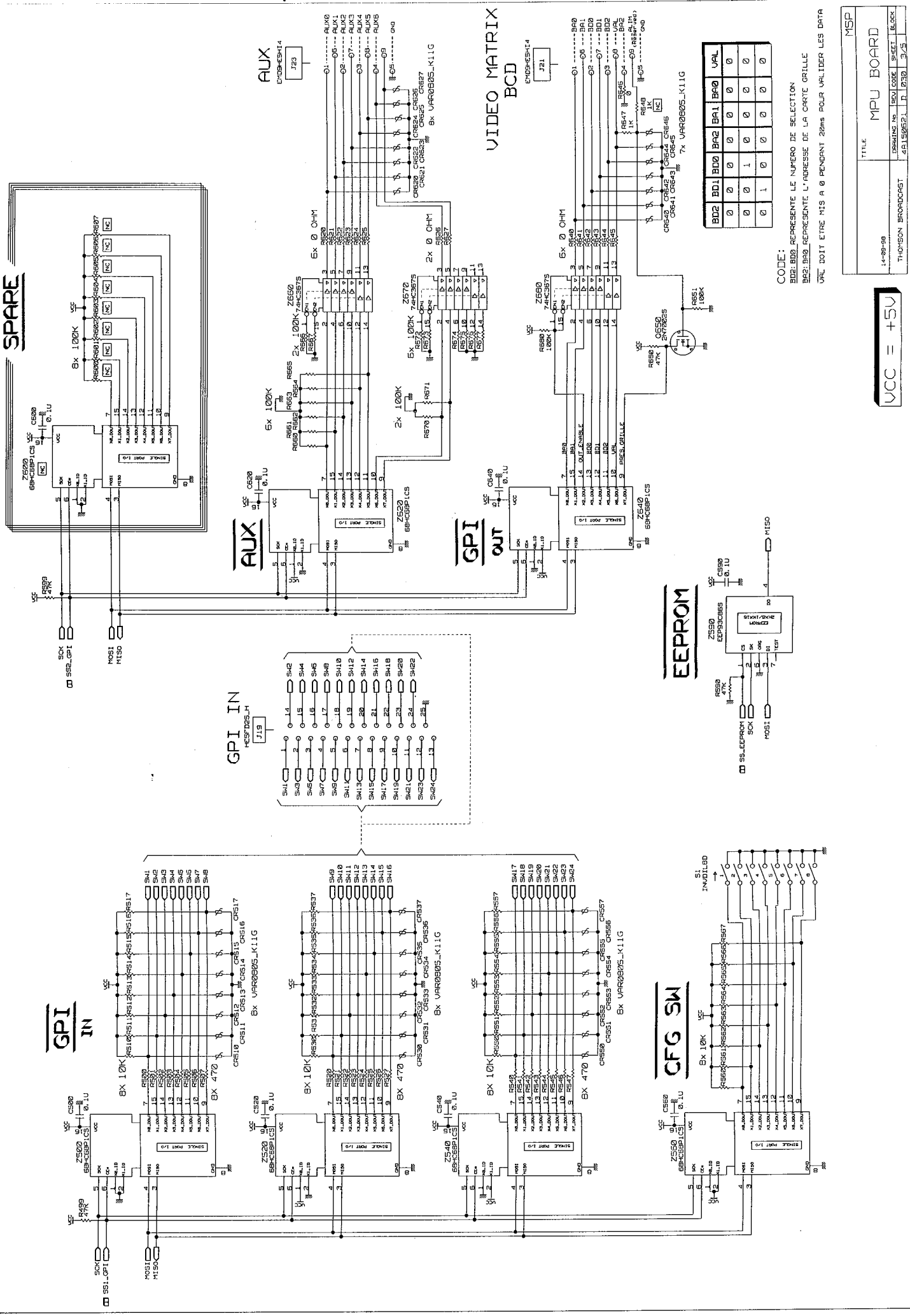
VCC = +5V

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68-89-56	TITLE	MPU BOARD	MSP
THOMSON BROADCAST	DRAWING NO	REV CODE	SHEET BLOCK
	4615062.1	A	030 2/5

SPARE

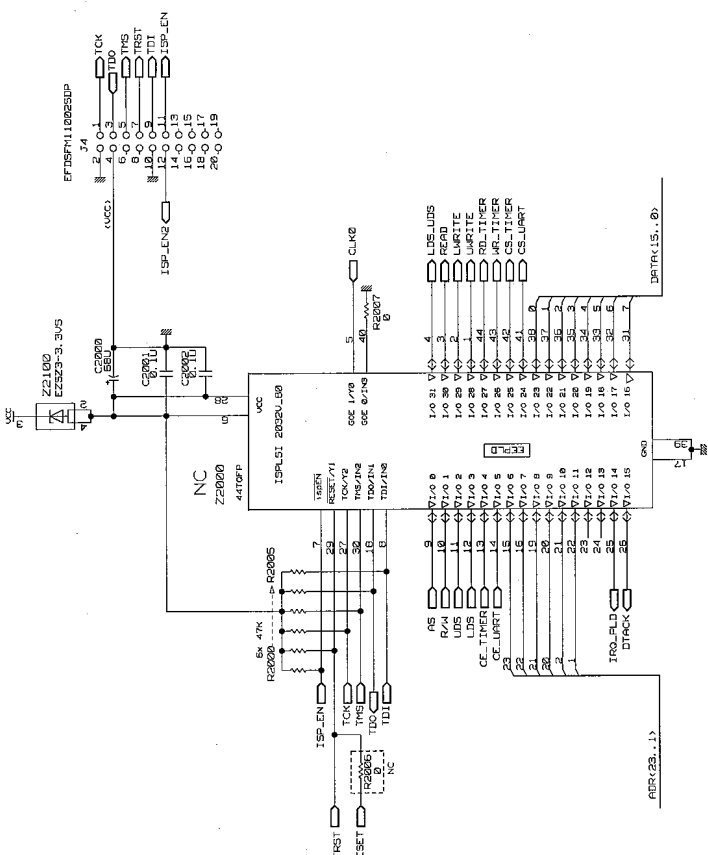


CODE:
 BDE: BDD REPRESENTS LE NUMERO DE SELECTION
 BAE: BBD REPRESENTS L'ADRESSE DE LA CARTE GRILLE
 VAL: BDD DOIT ETRE MIS A 0 PENDANT 20ms POUR VALIDER LES DATA

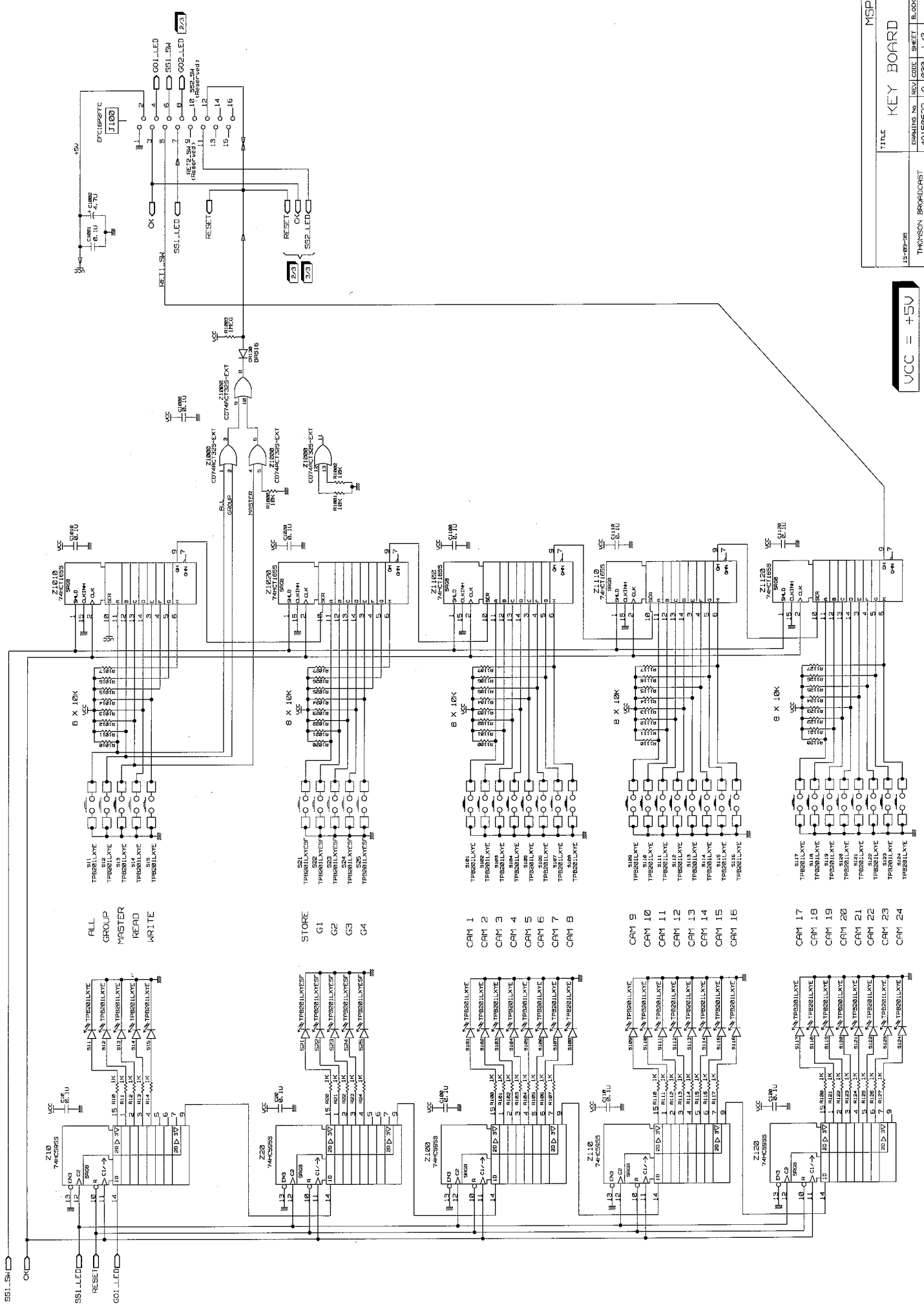
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TITLE	MPU BOARD
14-00-00	THOMSON BROADCAST
48150621	1 0 30 3/5

VCC = +5V

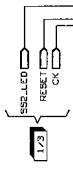


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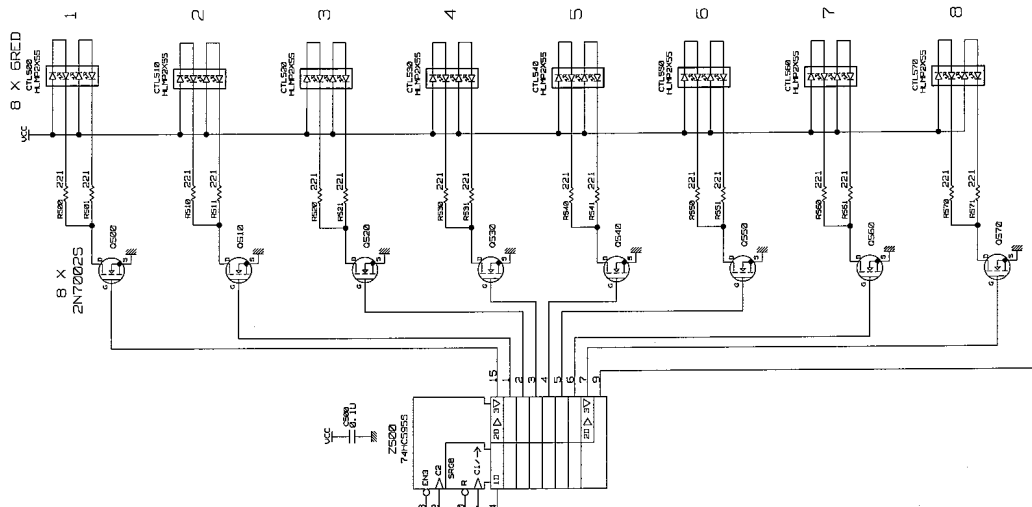


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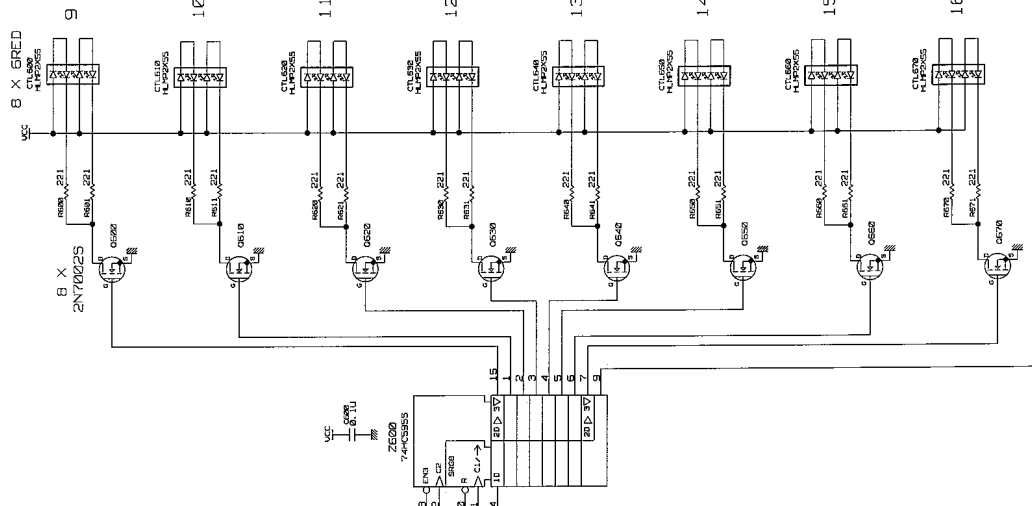
TITLE			
KEY BOARD			
15-09-94	DESIGNED BY	REVISED	SHEET
THOMPSON BROADCAST	40150622	1A	030
MSP			



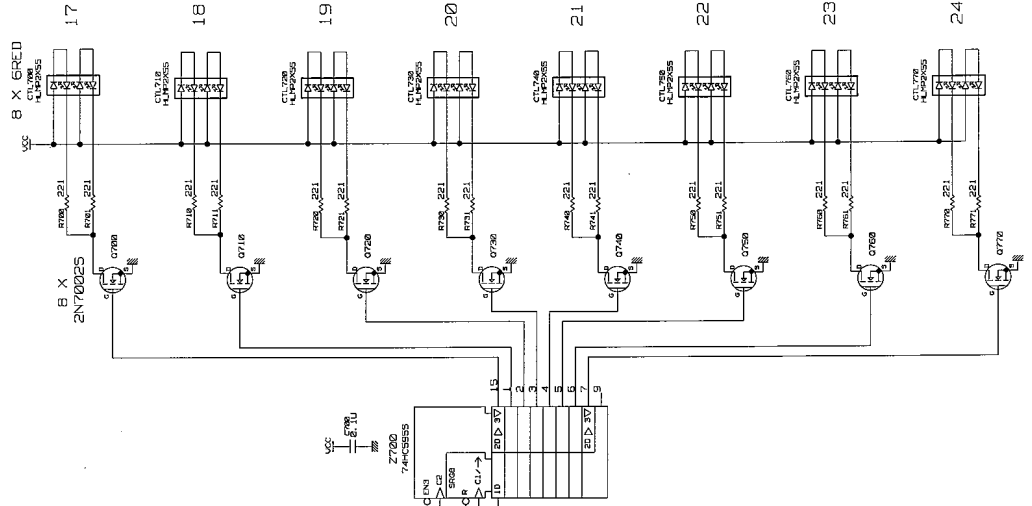
ONAIR1



ONAIR1

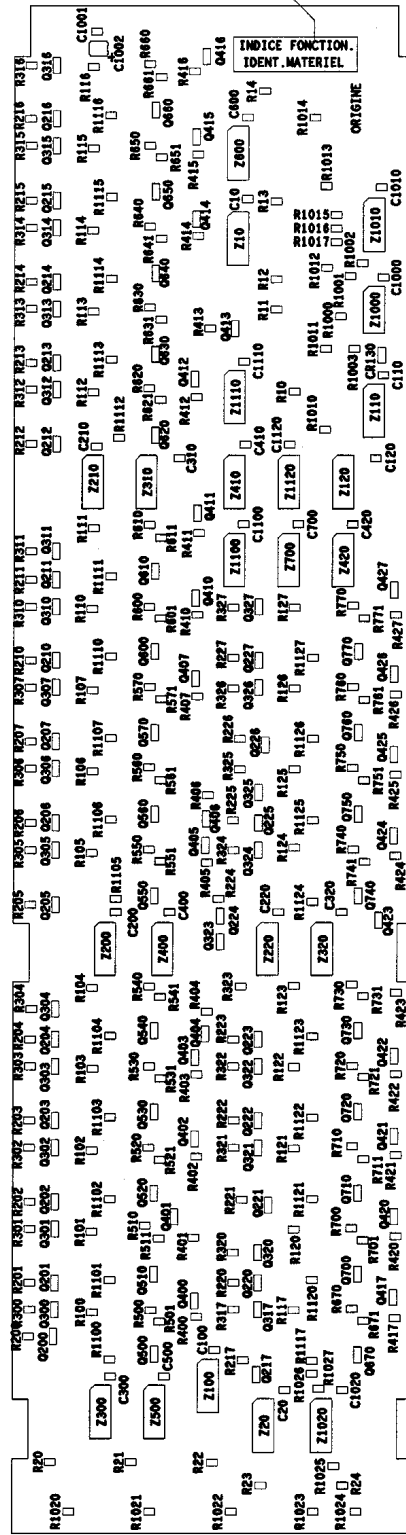
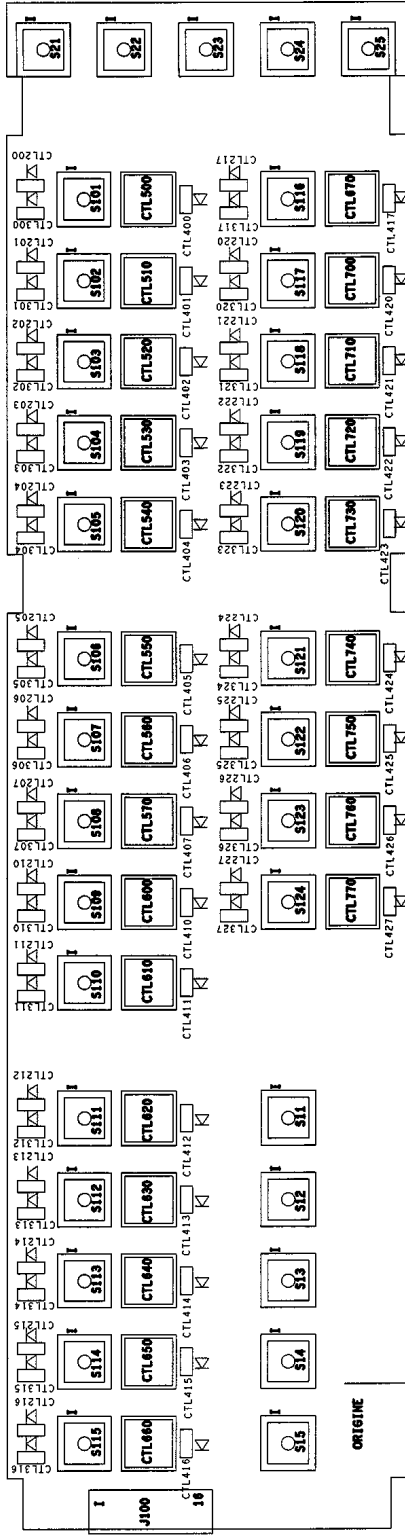


ONAIR1



VCC = +5V

TITLE			
15-09-98	THOMSON BROADCAST	48150622	A 0301 3/3
KEY BOARD			
DESIGNED BY	REV CODE	SHEET	BLOCK



TITLE		KEY BOARD				MSP	
THOMSON		DRAWING No	REV	CODE	SIZE	SHEET	
BROADCAST SYSTEMS		4A150622	A	046	3	01/01	

ARTICLE: 47232140aa

CHAS CHASSIS MSP
EQUIPE CABLE

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
VIS 05	---- ENTRETOISE	REPRISE	46152143
VIS 06	---- VIS IMPERDABLE		46152147
3	---- PLATINE MARQUEE MSP		47232137AA
4	---- TRAPPE		47232138AA
5	---- EQUERRE		47232139AA
13	FUSE FUSIBLE CEI127/5	0,5A 5X20 TEMPORISE	T9000663
Accessoires cablages			
11	PFIL PASSE-FILS PVC	DKE10/12/16-1,5 132-107	T1002279
COS 03	COSSE CLIP ROUGE	J22-16 LARGEUR 6,35	T9004718
COS 02	COSSE RONDE ROUGE	J22-16 BORNAGE 4,17	T9004722
COS 01	COSSE COSSE F CLIP ROUGE	ISOLEE LANGUET. 6.35X0.8	T9005514
Alimentations			
6	ALIM ALIM SWE10 AC/DC	85-264V/12V0,8A	T9004468
Cables-cordons			
CAB 1	CAPL CABLE PLAT EQUIPE	FFC 1.00 D16 200 L330707	T1003116
CB 19	CABL CABLE	1CNEC+3FILS V/N/BLC	T9004686
CB 25	CABL CABLE	1CNEC+4FILS ROUG/NOIR	T9004687
FIL 01	FIL FIL UL1015 AWG18	600V VERT/JAUNE	T9004862
Cartes équipées			
	CART MPU BOARD MSP -MP		4A150621AA
	CART KEY BOARD MSP		4A150622AA
Connecteur			
J 01	CNSC FICHE F DRT FIL	RECT 1X4 NU PAS2.54	91397835
J 01 A	CNCT 47565-001 (ACHAT PA 00)		T1000298
7	CNEC PF0001/63 EMD-SECTE	SE5X2 10A/250V	T9003981
Divers mécaniques			
1	CHAS CHASSIS MSP		47232135AA
2	---- PROTECTION	ALIMENTATION	47232136AB
Etiquettes			
10	ETIM CE 10x10		47018990
9	ETIM FUSE T 0.5A H 250V		47033674AA
14	ETIQ *ETIQUETTE 22X6,5MM	3921-3M(IDENTIF) BD:5000	T9004114
8	ETIQ DANGER ELECTRIQUE	TRIANGL 25MM ADHESIF	T9005348
Visserie-Ecrous-Rondelles-Rivets			
VIS 11	RDEL RONDELLE	520251-80	91280718
VIS 17	RDEL RONDELLE M4U A4-50	PASSIVE	99012771
VIS 04	ECRU ECROU NU503-2-A	A PINCE-ACIER	99051303
VIS 02	RDEL RONDELLE 520301-80		99051638
VIS 03	VIS VIS INOX A2.70 PASS	F/90+ PHILIPS M3X8	99052425
VIS 15	ECRU ECROU H M4 U INOX	A4 PASSIVE	99059913
VIS 01	VIS VIS INOX A4 PASS. C	M3X8/8 U	99060924
VIS 13	VIS VIS INOX TC F	M2.5X5U Z2CND17-12PASSI.	99077103
VIS 12	VIS VIS INOX.A4 PASS. C	M2.5X12/12 U	99077508
VIS 07	ENTT ENTRETOISE F/F	L5 TAR:M2.5 LAITON	T1000625
VIS 08	ENTT ENTRETOISE F/F	L20 TAR:M2.5 LAITON	T1005158
VIS 16	RDEL RONDELLE M4/8MM	EVENT.INOX-A2 DENTS-EXT	T9004859

ARTICLE: 47232295aa

CABL CABLE
SECTEUR-ALIMENTATION

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT

Accessoires cablages			
COS 03			
COS 02	COS 04		
COS 01			
Cables-cordons			
CB 19			
FIL 01			
	CABL CABLE	1CNEC+3FILS V/N/BLC	T9004686
	FIL FIL UL1015 AWG18	600V VERT/JAUNE	T9004862

ARTICLE: 47232296aa

CABL CABLE
ALIMENTATION-CARTE MPU

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
Cables-cordons			
CB 25	CABL CABLE	1CNEC+4FILS ROUG/NOIR	T9004687
Connecteur			
J 01	CNSC FICHE F DRT FIL	RECT 1X4 NU PAS2.54	91397835
J 01 A	CNCT 47565-001 (ACHAT PA	00)	T1000298

ARTICLE: 4a150621aa

CART MPU BOARD MSP -MP

REPERES TOPO							DESIGNATION 1		DESIGNATION 2		COMPOSANT	
Z	1000	R	742	R	803	R	1113	SWIR CIRC ANA DIL TO220	LT1076CT 5 PINS	T1005192		
R	1000							REMP RESIST CMS 0603	2.7 KOHMS 5% 1/16W K250	T9000988		
R	712							REMP RESIST CMS 0603	150 OHMS 5% 1/16W K250	T9001034		
R	1213											
Z	100 A							REMP SUPPORT F DRT CMS	PLCC44	T9001122		
Z	400 A							REMP SUPPORT F DRT CMS	PLCC52	T9001123		
Accessoires cablages												
J	2 A							BARR BARETTE SECABLE	1X36 MD	91395276		
TP	240	TP	700	TP	730	TP	800	PLMS PLOT CMS	RCT00000C	T1002596		
TP	1000	TP	1001	TP	1002	TP	1003					
TP	1004	TP	1100	TP	1200							
Alimentations												
BT	1							PILE ACCU 345-0 3V 45MAH		T1002993		
Circuit imprimé nu												
	01							CIU MPU BOARD MSP	CDA:XM8-THCE0-D561	2A534675AB		
Circuits intégrés CMS												
Z	110	Z	720	Z	820			CIMS CIRC ANA CMS SO8P	LM311 COMPAREUR	99129838		
Z	140							CIMS CIRC NUM CMS SO14P	74HC04 INVERS. SN74HC04D	99137355		
Z	750							CIMS CIRC NUM CMS SO14P	74HC08D	99137356		
Z	280							CIMS CIRC CMS SO14	74HCT04 -40+85	99143772		
Z	900							CIMS CIRC NUM CMS SOL18P	MAX242CWN TRANSCEIV	T1005322		
Z	260							CIMS CIRC NUM CMS SO14P	74ACT00	T9000055		
Z	130	Z	300					CIMS CIRC NUM CMS SO14	74ACT32	T9000079		
Z	290							CIMS CIRC NUM CMS SO14	74ACT74	T9000087		
Z	660							CIMS CIRC NUM CMS SO16P	74HC367	T9001349		
Z	160							CIMS CIRC NUM CMS SO14P	74HC125T	T9001569		
Z	700							CIMS CIRC NUM CMS SO8P	MAX485E DRIVER RS485	T9004906		
Z	800	Z	810	Z	730	Z	740					
Z	1200	Z	1210	Z	1100	Z	1110					
Circuits intégrés mémoires CMS												
Z	350	Z	520	Z	540	Z	560	MPMS MICROP CMS PLCC44	SCC68692C1A44	T1001084		
Z	120							MPMS MICROP CMS SOL16P	MAX695EWE	T1002423		
Z	200							MPMS MICROP CMS QFP132P	MC68302FC16C	T1005168		
Z	400							MPMS CIRC PROC CMSPLCC52	MC68HC811E2FN	T1005225		
Z	500							MPMS MICROP CMS SO16P	68HC68P1 8BIT	T9000419		
Z	620											
Z	270							MPMS MICROP CMS PLCC28	82C54	T9000854		
Z	590							EEMS MEM EEPR CMS SO8P	1KX16/2KX8 1MHZ 3MA	T9001604		
Z	100							EPMS MEM EPRO CMS PLCC44	256KX16 120NS	T9001714		
Z	310	Z	320					SRMS MEM SRA CMS SOJ32P	128KX8 15NS 170MA	T9003029		
Commutateurs												
S	1	S	422					COML COMMUTATEUR LEVIER	DIP 8 Y CDB8L	91691585		
Condensateurs												
C	1002							CAPA COND FIXE CAR1015	470 UF 20% 16V	T9001342		
C	1000							CAPA COND FIXE CAR812	47 UF 20% 63V	T9003100		
Condensateurs CMS												
C	902	C	903	C	904	C	905	C.CH COND CMS CTC3A TANT	1 UF 20% 16V	99142711		
C	141	C	142					C.CH COND CMS 0603 NPO	22 PF 5% 63V	T9000961		
C	143	C	144	C	401	C	402	C.CH COND CMS 0603 NPO	33 PF 5% 63V	T9000962		
C	711	C	723	C	724	C	741	C.CH COND CMS 0603 X7R	10 NF 10% 63V	T9001016		
C	1111	C	1211									
C	320							C.CH COND CMS CTC3B TANT	4,7MF 20% 16V	T9001370		
C	204	C	901	C	2000			C.CH COND CMS CTC3D TANT	68 UF 20% 16V	T9003349		
C	100	C	110	C	120	C	121	C.CH COND CMS 0805 X7R	100 NF 10% 63V	T9004666		
C	140	C	160	C	200	C	201					
C	202	C	203	C	240	C	260					
C	270	C	280	C	290	C	300					
C	311	C	321	C	350	C	400					
C	500	C	520	C	540	C	560					
C	590	C	600	C	620	C	640					
C	700	C	710	C	730	C	740					
C	800	C	810	C	900	C	1001					
C	1100	C	1110	C	1200	C	1210					
C	2001	C	2002									
Connecteur												
J	10	J	11	J	12	J	13	CNEC EMBASE F DRT	SUBD 9 SOUD CI2.4 P2.75	T9003545		
J	14	J	15	J	16	J	17					
J	18	J	20	J	22	J	24					
J	19							CNEC EMBASE F DRT	SUBD 25 SOUD CI2.4 P2.75	T9003547		
J	21	J	23	J	25			CNEC EMBASE M DRT	SUBD 9 SOUD CI2.4 P2.75	T9003553		
J	4							CNMS EMBASE F DRT CMS	REC 2X10 PAS 1.27	T9004547		
J	110							CNEC EPC1X16+P1-ZIF##-M	3-D##	T9004580		
Diodes CMS												
CRL	1	CRL	3	CRL	4	CRL	5	LEDS DIOD LED CMS SOT23	LSS260-DO ROUGE	306024		
CRL	2							LEDS DIOD LED CMS SOT23	LGS260-DO VERTE	91613459		
CRL	6											
CR	900							DIMS DIOD CMS SOT23	BAV70 [A4]	99123890		
CR	120							DIMS DIOD CMS SOT23	BAR18 [D76]	99123948		
CR	11	CR	12	CR	13	CR	14	DIMS DIOD CMS	10MF2	T1002179		
CR	15	CR	16	CR	17	CR	18					
CR	1000											
CR	1001							DIMS DIOD CMS	MBRD660CT 60V 6A	T1002443		
Z	2100							DIMS DIOD CMS SOT223	EZ5Z3-S3.3 5V-3.3V	T1005132		
Divers mécaniques												
J	17 A	J	18 A	J	19 A	J	21 A	VROU VERROU A VIS FEMELL	4-40/4-40 L:4,5MM LAITON	T9004234		
J	22 A	J	23 A	J	24 A	J	25 A					
J	25 A	J	10 A	J	11 A	J	12 A					
J	13 A	J	14 A	J	15 A	J	16 A					
Etiquettes												
ID								ETIQ *ETIQUETTE 22X6,5MM	3921-3M (IDENTIF) BD:5000	T9004114		
Fusibles CMS												
F	1	F	2					FUMS FUSIBLE CMS	SMD030 0.3A	T9004705		
Inductances												
L	1000							SELF SELF TSL1110	100 UH 10%	T9003230		
Oscillateurs												
Y	3							OCMS OSCIL. CMS CSACS8T	Resonateur MOS 8 mh	T1002473		
Y	2							QRTZ QUARTZ HC49S	47.3729MHZ 50PPM BP	T9000410		
Y	1							QRTZ QUARTZ HC49US	16MHZ 50PPM 16PF	T9001471		
Résistances CMS-Potentiomètres CMS												
R	1003							RESC RESIST CMS 0805	2 KOHMS 1% 1/10W K100	162202		
R	1001							RESC RESIST CMS 0805	3.01 KOHMS 1% 1/10W K100	162302		
R	1002							RESC RESIST CMS 0805	392 OHMS 1% 1/10W K100	162391		
R	101	R	201	R	208	R	300	RESC RESIST CMS 0603	0 OHM 1/16W K250	T9000877		
R	310	R	320	R	620	R	621					

ARTICLE: 4a150621aa

CART MPU BOARD MSP -MP

REPERES TOPO				DESIGNATION 1	DESIGNATION 2	COMPOSANT
R 622	R 623	R 624	R 625	THMS THERMIST CMS CN0805 K11G		T9003582
R 626	R 627	R 640	R 641			
R 642	R 643	R 644	R 645			
R 646	R 1111	R 1211	R 2007			
CR 550	CR 551	CR 552	CR 553			
CR 554	CR 555	CR 556	CR 557			
CR 620	CR 621	CR 622	CR 623			
CR 624	CR 625	CR 626	CR 627			
CR 640	CR 641	CR 642	CR 643			
CR 644	CR 645	CR 646				
CR 510	CR 511	CR 512	CR 513	RESC RESIST CMS 0603 1 KO 1% 1/10W K100		T9005114
CR 514	CR 515	CR 516	CR 517			
CR 530	CR 531	CR 532	CR 533			
CR 534	CR 535	CR 536	CR 537			
R 206	R 399	R 405	R 406			
R 407	R 408	R 409	R 410			
R 411	R 412	R 415	R 416			
R 417	R 418	R 419	R 420			
R 421	R 422	R 647	R 700			
R 710	R 716	R 730	R 740			
R 746	R 751	R 816	R 903	RESC RESIST CMS 0603 10 KO 1% 1/10W K100		T9005115
R 904	R 916	R 1117	R 1217			
R 123	R 141	R 143	R 161			
R 565	R 566	R 567				
R 401	R 402	R 436	R 510			
R 511	R 512	R 513	R 514			
R 515	R 516	R 517	R 530			
R 531	R 532	R 533	R 534			
R 535	R 536	R 537	R 550			
R 551	R 552	R 553	R 554			
R 555	R 556	R 557	R 560	RESC RESIST CMS 0603 100 KO 1% 1/10W K100		T9005116
R 561	R 562	R 563	R 564			
R 130	R 131	R 132	R 133			
R 134	R 135	R 144	R 154			
R 155	R 156	R 157	R 163			
R 164	R 165	R 166	R 214			
R 215	R 216	R 243	R 247			
R 248	R 430	R 651	R 660			
R 661	R 662	R 663	R 664			
R 665	R 666	R 667	R 670			
R 671	R 672	R 673	R 674	RESC RESIST CMS 0603 2,21KO 1% 1/10W K100 RESC RESIST CMS 0603 4,75KO 1% 1/10W K100		T9005137 T9005145
R 675	R 676	R 677	R 680			
R 750	R 752	R 753	R 820			
R 821	R 822					
R 217	R 246					
R 218	R 352	R 711	R 713			
R 741	R 743	R 802	R 804			
R 1112	R 1114	R 1212	R 1214			
R 112	R 122	R 162	R 200			
R 202	R 203	R 204	R 205			
R 209	R 210	R 211	R 212	RESC RESIST CMS 0603 100 O 1% 1/10W K100 RESC RESIST CMS 0603 221 O 1% 1/10W K100 RESC RESIST CMS 0603 475 O 1% 1/10W K100		T9005153 T9005157 T9005165
R 414	R 432	R 901				
R 351						
R 500	R 501	R 502	R 503			
R 504	R 505	R 506	R 507			
R 520	R 521	R 522	R 523			
R 524	R 525	R 526	R 527			
R 540	R 541	R 542	R 543			
R 544	R 545	R 546	R 547			
R 121						
R 100	R 110	R 111	R 213	RESC RESIST CMS 0603 13 KO 1% 1/10W K100	47,5KO 1% 1/10W K100	T9005175 T9005188
R 219	R 220	R 221	R 222	RESC RESIST CMS 0603		
R 223	R 224	R 240	R 241			
R 242	R 244	R 245	R 270			
R 350	R 403	R 404	R 499			
R 590	R 599	R 650	R 810			
R 900	R 902	R 905	R 1110			
R 1210	R 2000	R 2001	R 2002			
R 2003	R 2004	R 2005				
R 120				RESC RESIST CMS 0603 75 KO 1% 1/10W K100		T9005193
R 140	R 142	R 400	R 715	RESC RESIST CMS 0603 1 MO 1% 1/10W K100		T9005212
R 745	R 815	R 915	R 1116			
R 1216						
Support						
TB 10 A	TB 11 A	TB 20 A	TB 21 A	SUCI SC2S64Y1B (BARRETTE LLE) BDF5210AU-64		T9000353
TB 30 A	TB 31 A					
Transistors CMS						
Q 90	Q 650			TRMS TRANS CMS SOT23 2N7002 [702] [72AB]		91685632
Visserie-Ecrous-Rondelles-Rivets						
02				ENTT ENTRETOISE TARAUEE ESF-6,1M2,5-R4		T9004932

ARTICLE: 4a150622aa

CART KEY BOARD MSP

REPERES TOPO				DESIGNATION 1		DESIGNATION 2		COMPOSANT		
CTL	500	CTL	510	CTL	520	CTL	530	LBAR DIOD LED BAR	HLMP 2655 ROUGE	91534028
CTL	540	CTL	550	CTL	560	CTL	570			
CTL	600	CTL	610	CTL	620	CTL	630			
CTL	640	CTL	650	CTL	660	CTL	670			
CTL	700	CTL	710	CTL	720	CTL	730			
CTL	740	CTL	750	CTL	760	CTL	770			
CTL	410	CTL	411	CTL	412	CTL	413	LED DIOD LED 2X5X7,6	HLMP-S301 JAUNE RECT	T9004596
CTL	414	CTL	415	CTL	416	CTL	417			
CTL	420	CTL	421	CTL	422	CTL	423			
CTL	424	CTL	425	CTL	426	CTL	427			
CTL	200	CTL	201	CTL	202	CTL	203			
CTL	204	CTL	205	CTL	206	CTL	207			
CTL	210	CTL	211	CTL	212	CTL	213			
CTL	214	CTL	215	CTL	216	CTL	217			
CTL	220	CTL	221	CTL	222	CTL	223			
CTL	224	CTL	225	CTL	226	CTL	227			
CTL	400	CTL	401	CTL	402	CTL	403			
CTL	404	CTL	405	CTL	406	CTL	407			
CTL	300	CTL	301	CTL	302	CTL	303	LED DIOD LED 2X5X7,6	HLMP-S501 VERT RECT	T9004597
CTL	304	CTL	305	CTL	306	CTL	307			
CTL	310	CTL	311	CTL	312	CTL	313			
CTL	314	CTL	315	CTL	316	CTL	317			
CTL	320	CTL	321	CTL	322	CTL	323			
CTL	324	CTL	325	CTL	326	CTL	327			
Circuit imprimé nu										
01								CIU KEY BOARD MSP	CDA: XK8-THCE0-A675	2A534673AA
Circuits intégrés CMS										
Z	1000							CIMS CIRC NUM CMS S014	74ACT32	T9000079
Z	1010	Z	1020	Z	1100	Z	1110	CIMS CIRC NUM CMS S016P	74HCT165T	T9000852
Z	1120									
Z	10	Z	20	Z	100	Z	110	CIMS CIRC NUM CMS S016P	74HC595M	T9000929
Z	120	Z	200	Z	210	Z	220			
Z	300	Z	310	Z	320	Z	400			
Z	410	Z	420	Z	500	Z	600			
Z	700									
Commutateurs										
								TBP TOUCHE BOUTON POUSS	TZ-0004 GRIS	91586666
								COMP COMMUT. A POUSSOIR	UNI. PT/PR CI JAUNE	T1000664
Condensateurs CMS										
C	1002							C.CH COND CMS CTC3B TANT	4,7MF 20% 16V	T9001370
C	10	C	20	C	100	C	110	C.CH COND CMS 0805 X7R	100 NF 10% 63V	T9004666
C	120	C	200	C	210	C	220			
C	300	C	310	C	320	C	400			
C	410	C	420	C	500	C	600			
C	700	C	1000	C	1001	C	1010			
C	1020	C	1100	C	1110	C	1120			
Connecteur										
J	100							CNEC EFC1X16+##P1-ZIF##-M 3-D##		T9004580
Diodes CMS										
CR	130							DIMS DIOD CMS SOT23	BAS16 [A6]	99110304
Etiquettes										
								ETIQ *ETIQUETTE 22X6,5MM 3921-3M(IDENTIF) BD:5000 T9004114		
Résistances CMS-Potentiomètres CMS										
R	1003							RESC RESIST CMS 0805	1 MOHM 5% 1/8W K200	161105
R	122	R	123	R	124	R	125	RESC RESIST CMS 0805	1 KOHM 1% 1/10W K100	162102
R	126	R	127							
R	10	R	11	R	12	R	13			
R	14	R	20	R	21	R	22			
R	23	R	24	R	100	R	101			
R	102	R	103	R	104	R	105			
R	106	R	107	R	110	R	111			
R	112	R	113	R	114	R	115			
R	116	R	117	R	120	R	121			
R	1105	R	1106	R	1107	R	1110	RESC RESIST CMS 0805	10 KOHMS 1% 1/10W K100	162103
R	1111	R	1112	R	1113	R	1114			
R	1115	R	1116	R	1117	R	1120			
R	1121	R	1122	R	1123	R	1124			
R	1125	R	1126	R	1127					
R	1000	R	1001	R	1002	R	1010			
R	1011	R	1012	R	1013	R	1014			
R	1015	R	1016	R	1017	R	1020			
R	1021	R	1022	R	1023	R	1024			
R	1025	R	1026	R	1027	R	1100			
R	1101	R	1102	R	1103	R	1104			
R	500	R	501	R	510	R	511	RESC RESIST CMS 0805	221 OHMS 1% 1/10W K100	T9003997
R	520	R	521	R	530	R	531			
R	540	R	541	R	550	R	551			
R	560	R	561	R	570	R	571			
R	600	R	601	R	610	R	611			
R	620	R	621	R	630	R	631			
R	640	R	641	R	650	R	651			
R	660	R	661	R	670	R	671			
R	700	R	701	R	710	R	711			
R	720	R	721	R	730	R	731			
R	740	R	741	R	750	R	751			
R	760	R	761	R	770	R	771			
R	310	R	311	R	312	R	313	RESC RESIST CMS 0805	475 OHMS 1% 1/10W K100	T9004031
R	314	R	315	R	316	R	317			
R	320	R	321	R	322	R	323			
R	324	R	325	R	326	R	327			
R	400	R	401	R	402	R	403			
R	404	R	405	R	406	R	407			
R	410	R	411	R	412	R	413			
R	414	R	415	R	416	R	417			
R	420	R	421	R	422	R	423			
R	424	R	425	R	426	R	427			
R	200	R	201	R	202	R	203			
R	204	R	205	R	206	R	207			
R	210	R	211	R	212	R	213			
R	214	R	215	R	216	R	217			
R	220	R	221	R	222	R	223			
R	224	R	225	R	226	R	227			
R	300	R	301	R	302	R	303			
R	304	R	305	R	306	R	307			
Support										
								SULD TZ2004 CADRE		91627404
Transistors CMS										
Q	310	Q	311	Q	312	Q	313	TRMS TRANS CMS SOT23	2N7002 [702] [72AB]	91685632
Q	314	Q	315	Q	316	Q	317			
Q	320	Q	321	Q	322	Q	323			

ARTICLE: 4a150622aa

CART KEY BOARD MSP

REPERES TOPO				DESIGNATION 1		DESIGNATION 2		COMPOSANT
Q	324	Q	325	Q	326	Q	327	
Q	400	Q	401	Q	402	Q	403	
Q	404	Q	405	Q	406	Q	407	
Q	410	Q	411	Q	412	Q	413	
Q	414	Q	415	Q	416	Q	417	
Q	420	Q	421	Q	422	Q	423	
Q	424	Q	425	Q	426	Q	427	
Q	500	Q	510	Q	520	Q	530	
Q	540	Q	550	Q	560	Q	570	
Q	600	Q	610	Q	620	Q	630	
Q	640	Q	650	Q	660	Q	670	
Q	700	Q	710	Q	720	Q	730	
Q	740	Q	750	Q	760	Q	770	
Q	200	Q	201	Q	202	Q	203	
Q	204	Q	205	Q	206	Q	207	
Q	210	Q	211	Q	212	Q	213	
Q	214	Q	215	Q	216	Q	217	
Q	220	Q	221	Q	222	Q	223	
Q	224	Q	225	Q	226	Q	227	
Q	300	Q	301	Q	302	Q	303	
Q	304	Q	305	Q	306	Q	307	

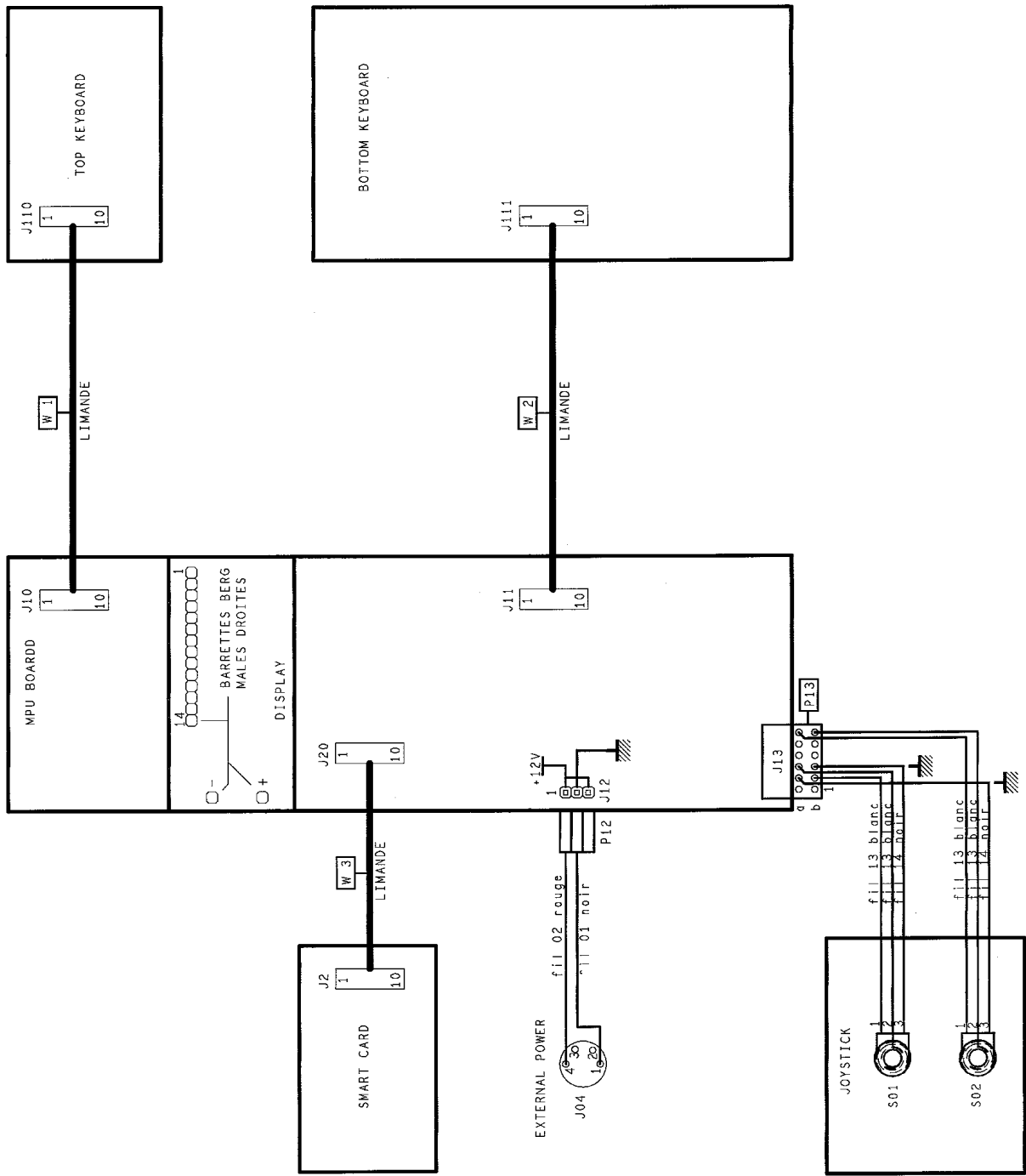
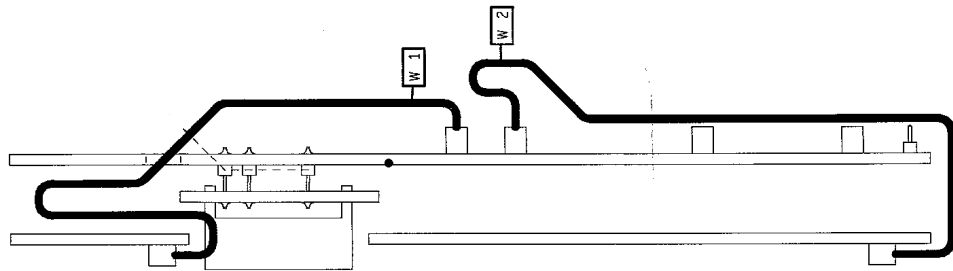
Chapter 2

OCP 50

OCP50			B1500509AA
	Schematic	Layout	Part list
BLOCK DIAGRAM	BD0 1/1		
INTERCONNECTION	47232227/B-050		47232227AA
ASSEMBLED OCP50	47232227/F-040		47232227AA
TOP KEY BOARD	4A150344/A-030	4A150344/A-046	4A150344
BOTTOM KEY BOARD	4B150345/A-030	4B150345/A-046	4B150345AB
MPU BOARD	4C150343/F-030	4C150343/A-046	4C150343AB
SMARTCARD	46150624AB/A-030	46150624AB/A-046	46150624AB

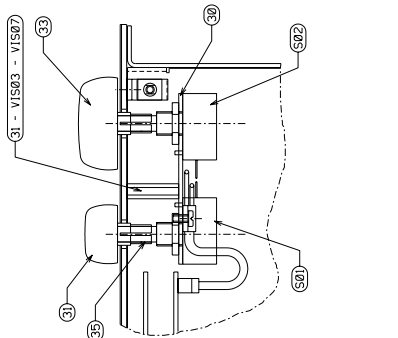
SITE: ZREF

Niv.	Composant	Rév	P/M	T	Fa	Description	Description	Qté	lien	UM
Compos	B1500509AA	02	M			CACC OCP50 for 1657 (D)	1557/1707			EA
1	47019048aa	1	M			LCAB ACCESSOIRES ET CABL	OCF 40	1,0		EA
.2	39962451	1	M	X	oui	CABC LIMANDE EQUIPEE	RACCORDEMENT PUPITRES	1,0		EA
1	47033512aa	1	M		oui	ETIM PRODUIT STANDARD		1,0		EA
1	47232227aa	8	M			CHAS CHASSIS	OCF50 CABLE	1,0		EA
.2	1B518718AE	01	M			CARP PANEL PUPITRE OCP	PUPITRE OCP 40	1,0		EA
.3	4A150344	2	M	X	oui	CART TOP KEY BOARD		1,0		EA
.3	4B150345AB	1	M	X	oui	CART BOTTOM KEY BOARD		1,0		EA
.3	4C150343AB	02	M	X	oui	CART MPU BOARD OCP40/50		1,0		EA
.2	46150624AB	01	M			CART SMARTCARD		1,0		EA
.2	47017050		M	X	oui	PROG Z 200		1,0		EA
.2	47033512AA	1	M	X	oui	ETIM PRODUIT STANDARD		1,0		EA
.2	47232228AB	02	M		oui	KIT. KIT SMART-CARD		1,0		EA
.2	47232229AA	4	M	X	oui	KIT2 MECA OCP50		1,0		EA
.2	47232541AC	01	M	X		PROG Z 130		1,0		EA
1	configpv		M			---- CONFIGURATION PRISE UE		1,0		EA

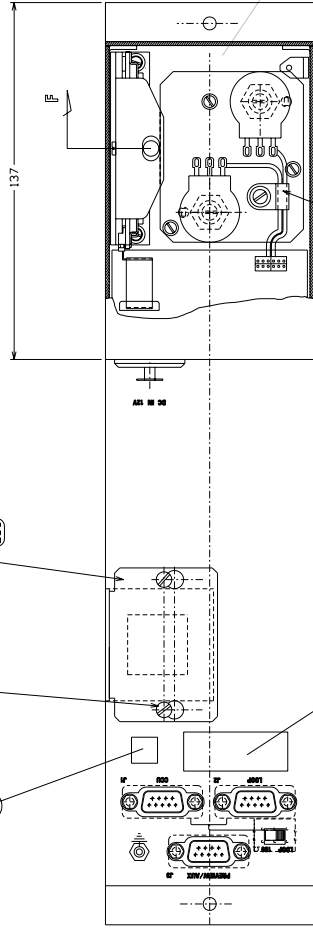
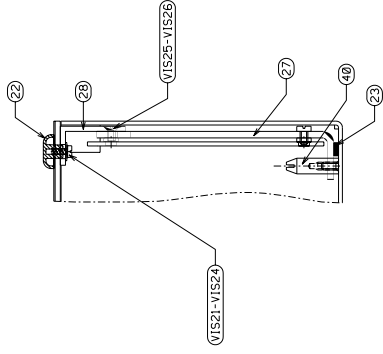


TITLE				OCP50			
INTERCONNECTION							
THOMSON	BROADCAST	DRAWING No	REV	CODE	SIZE	SHEET	
SYSTEMS		47232227	B	050	3	01/01	

VUE SUIVANT FF



COUPE PARTIELLE F



ETI 01

36-VIS30-VIS05

ETI 01

ETI 02

ETI 03

ETI 04

ETI 05

ETI 06

ETI 07

ETI 08

ETI 09

ETI 10

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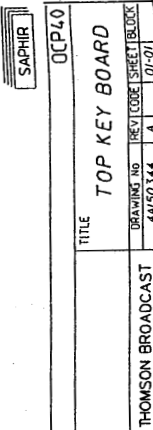
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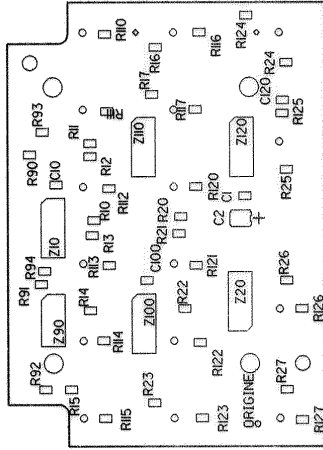
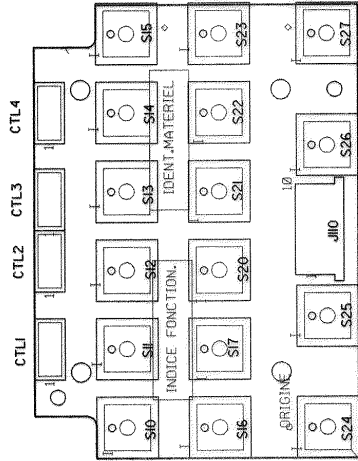
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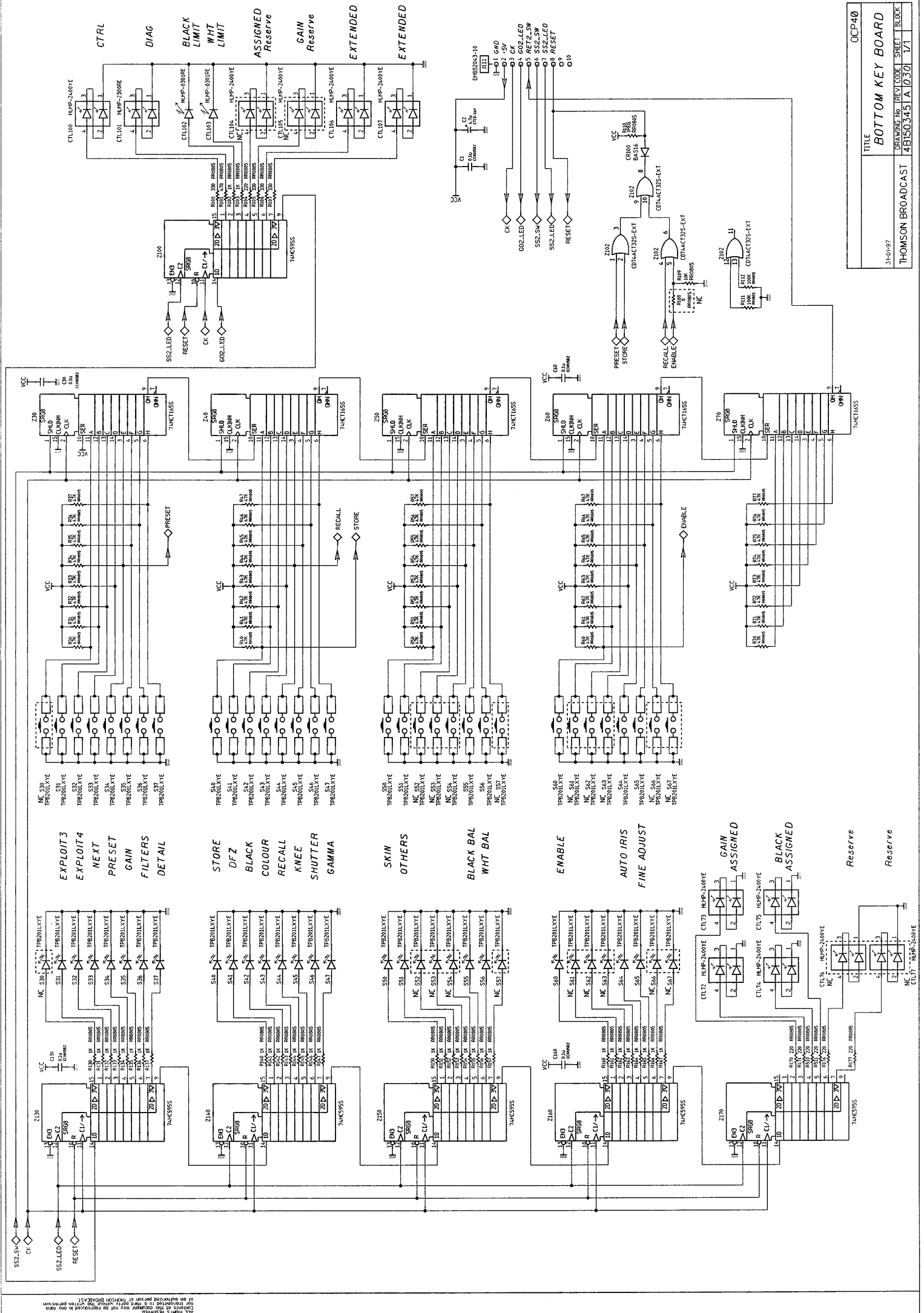
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ETI 2



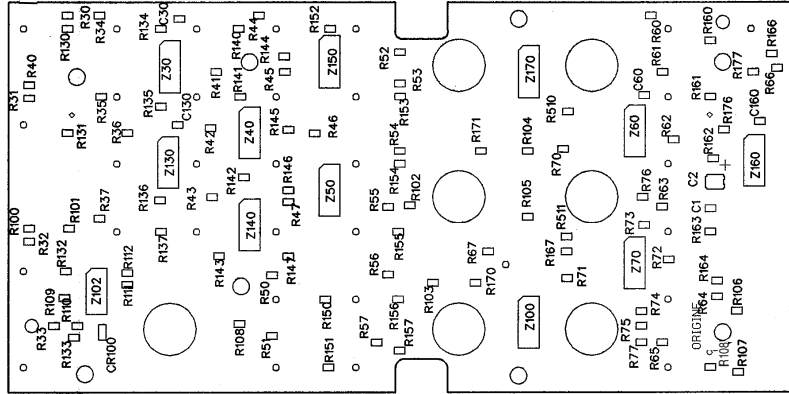
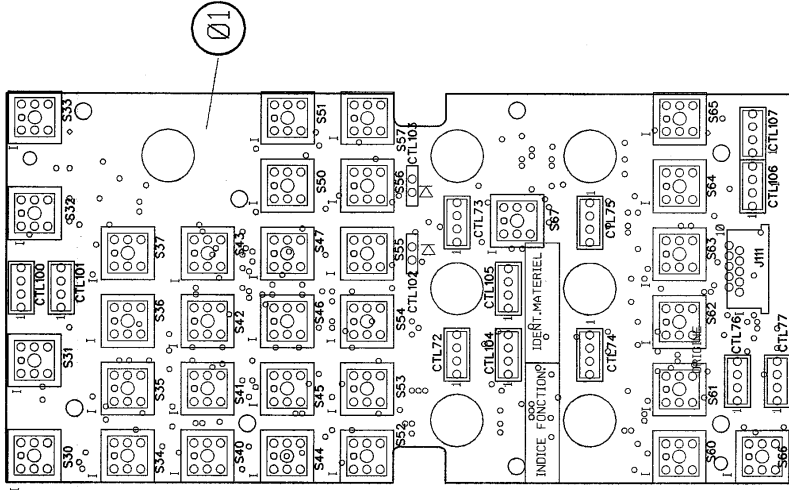


TITLE				OCP42/OCP50			
TOP KEY BOARD							
THOMSON	BROADCAST SYSTEMS	DRAWING No.	REV.	CODE	SIZE	SHEET	
		4A150344	A	046	4	01/01	



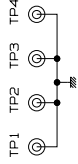
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TITLE		OCP40	
BOTTOM KEY BOARD		31-01-97	
DRAWING NO.		48150345	
SHEET		1/1	
BLOCK		1/1	



TITLE				OCP42/OCP50			
BOTTOM KEY BOARD							
THOMSON BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET		
	4B150345	A	046	3	01/01		

DISPLAY

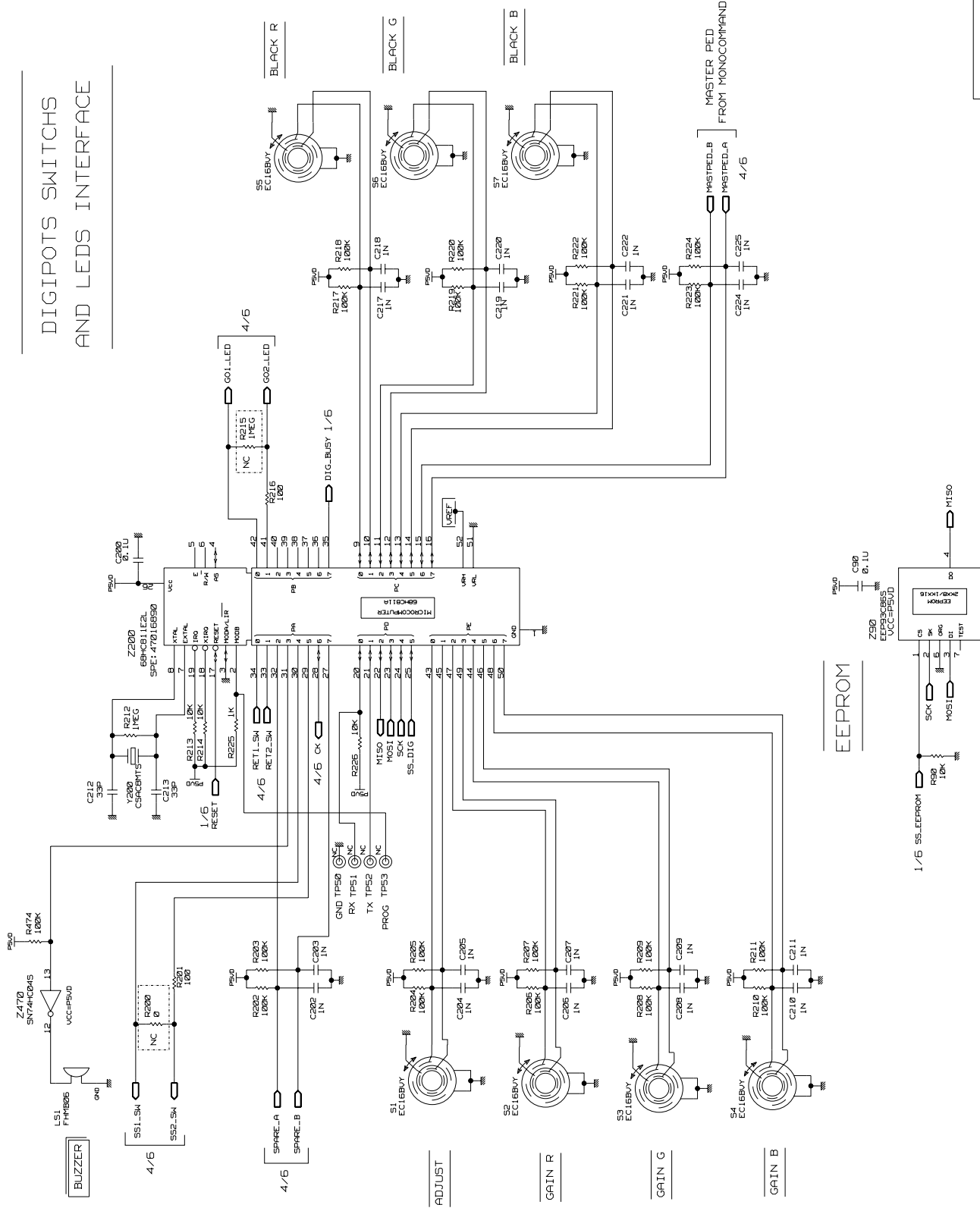


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TITLE		MPU BOARD			
22-6-98					
THOMSON BROADCAST	DRAWING NO	REV	CODE	SHEET	BLOCK
	AC1502343	F		0300	1/5

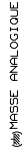
Conforme à l'archivage en ligne

333

DIGIPOTS SWITCHES AND LEDS INTERFACE



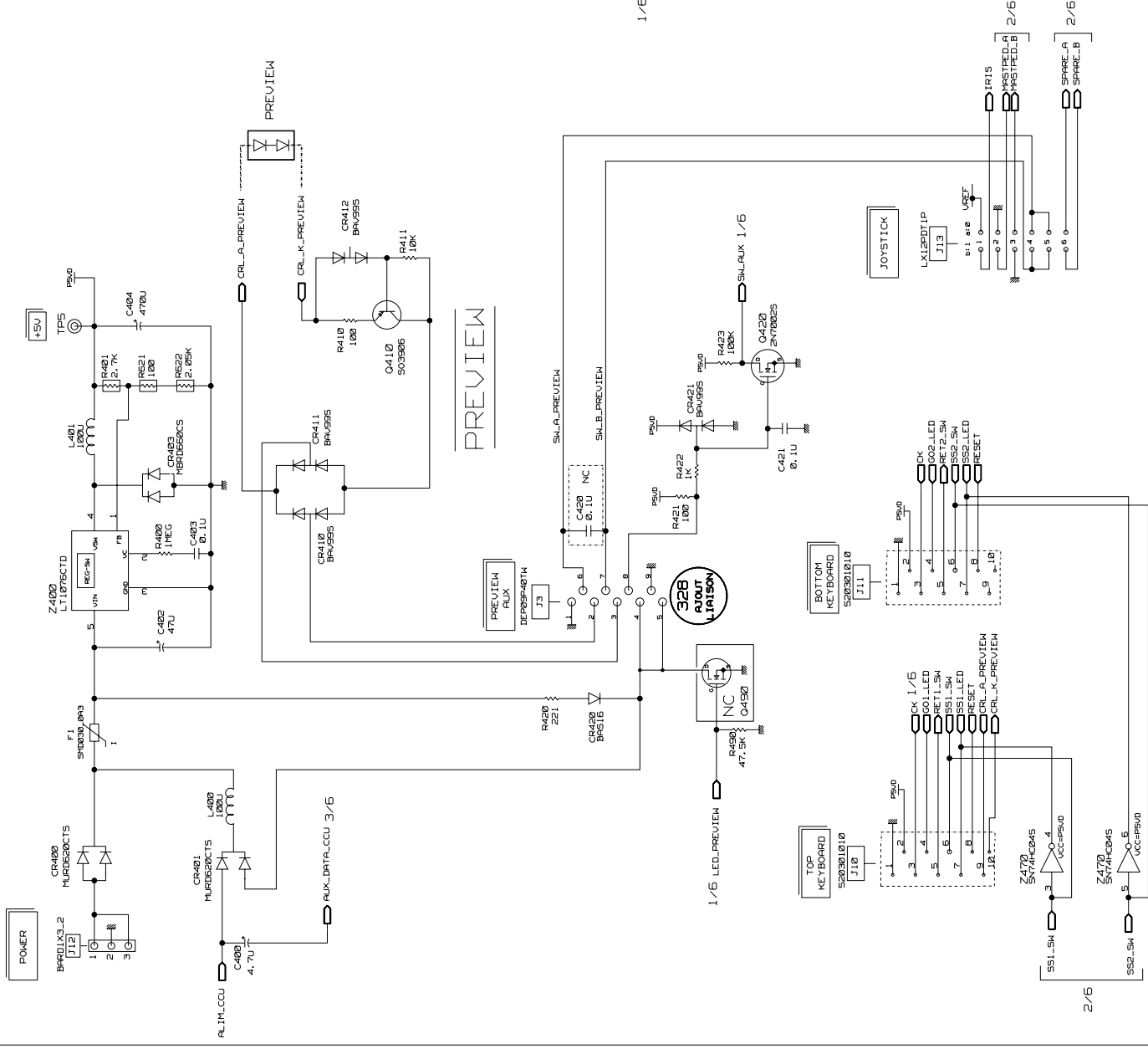
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TITLE		MPU BOARD	
24-6-98	DEVELOPING NO.	REV CODE	SHEET
THOMSON BROADCAST	4C150343	A 030	2/5



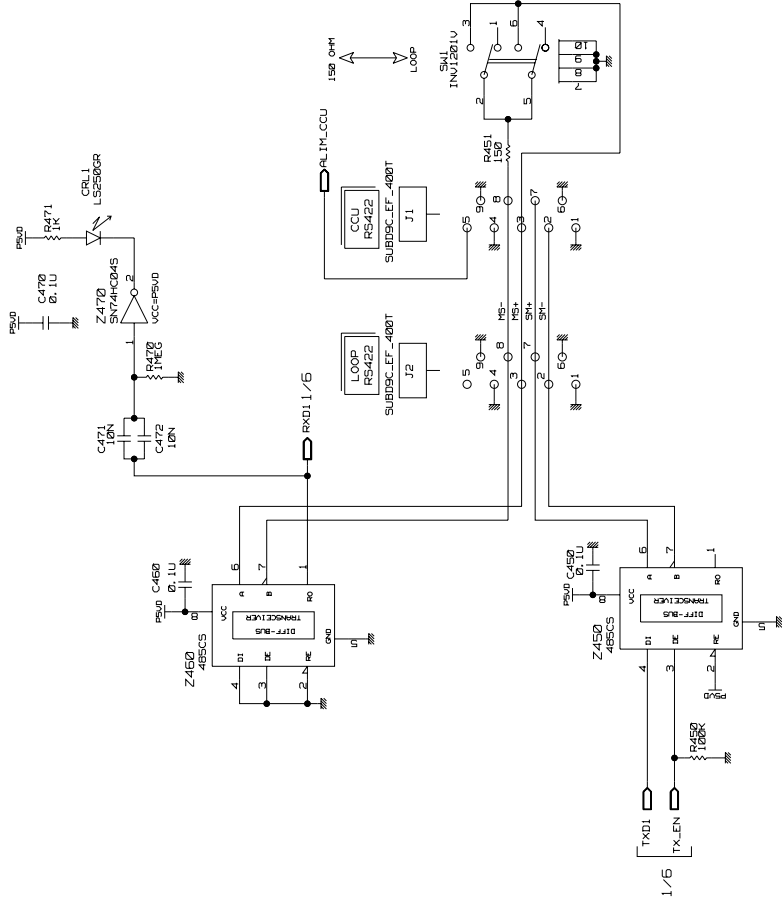
TITLE		MPU BOARD				QCP50	
1-1		THOMSON BROADCAST		DRAWING NO.	REV.	SHEET	BLOCK
				4C150343	F	930	3/5

DC/DC CONVERTER

(+10, 7/17v)



SERIAL LINK



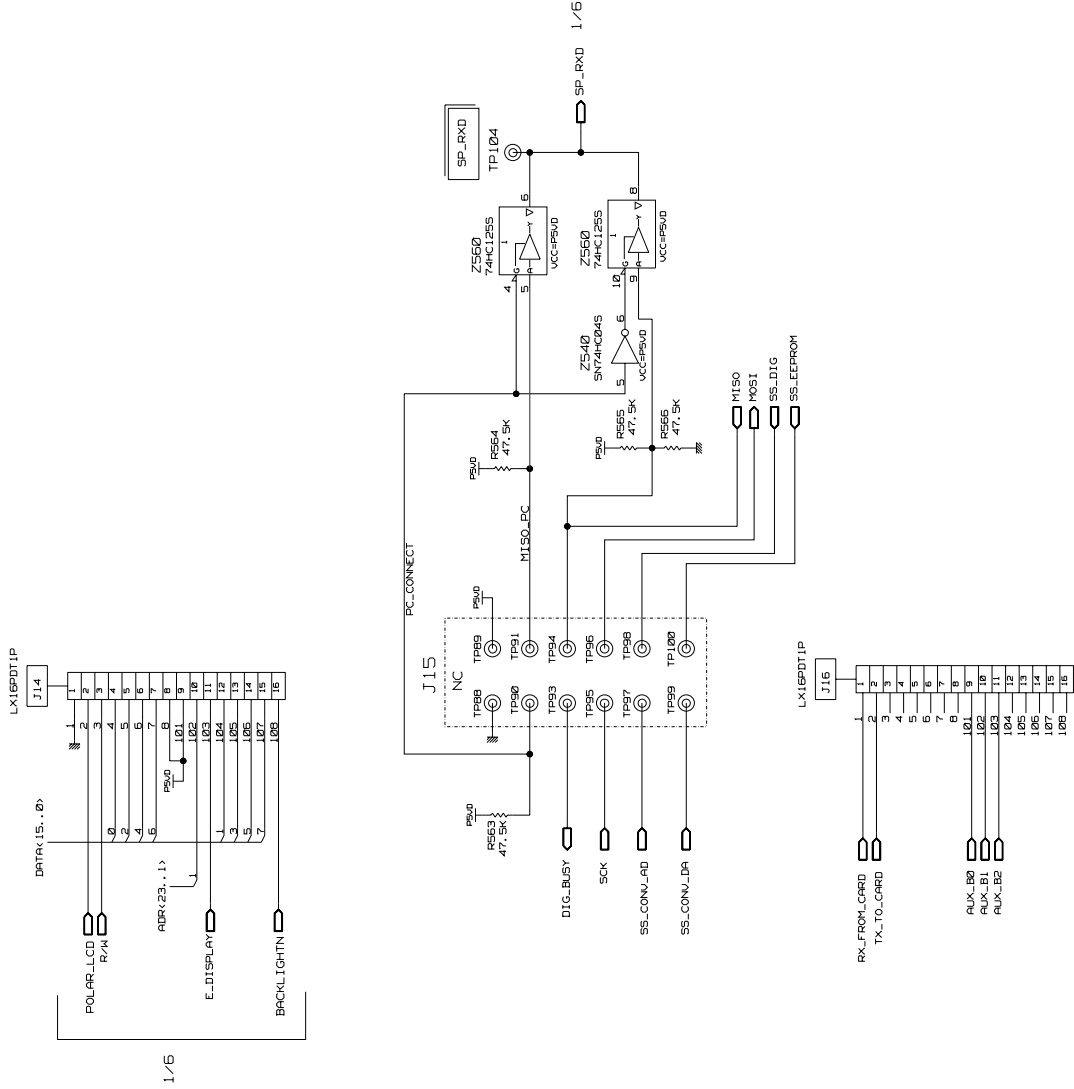
OCPS0				
TITLE				
I-1-1	MPU BOARD			
THOMSON BROADCAST	DRAWING NO	REV	CODE	SHEET BLOCK
	4C150343	C	030	4/6

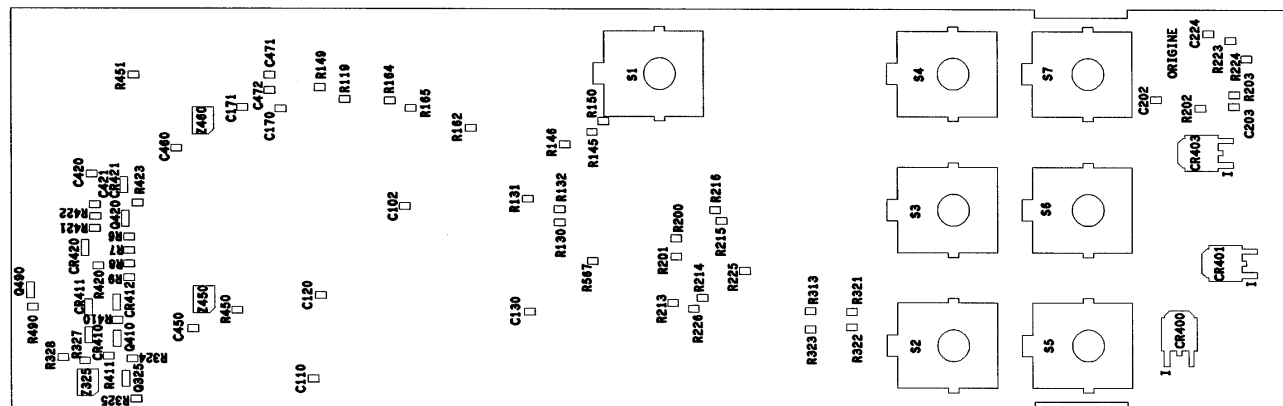
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		TITLE		CPU BOARD		0CP50	
		J-1-1					
THOMSON BROADCAST		DRAWING NO	SHEET	REV	CODE	BLOCK	
		4C150343	F		5/6		

TEST I/O

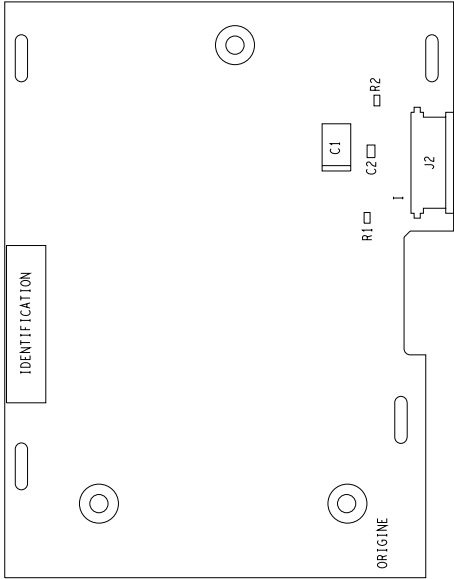
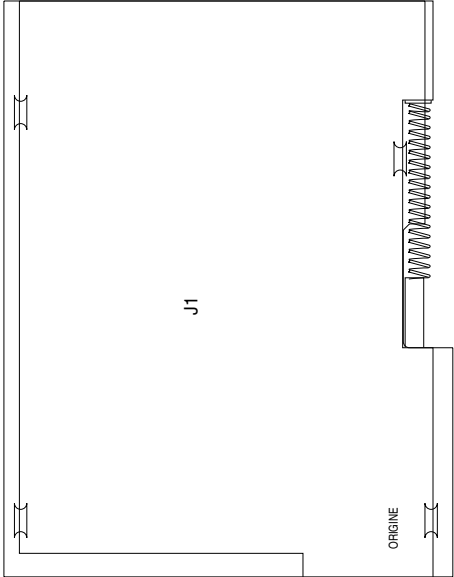




MPU BOARD

THOMSON BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET
	4C150343	A	046	3	01/01





TITLE				OCP42/OCP50				
SMARTCARD								
THOMSON BROADCAST SYSTEMS				DRAWING No	REV	CODE	SIZE	SHEET
				46150624AB	A	046	4	01/01

ARTICLE: 47232227aa

CHAS CHASSIS
OCP50 CABLE

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
50	---- ENTRETOISE	REPRISE	46152143
15	---- FILTRE LCD		46152146
165	---- VIS IMPERDABLE		46152147
205	---- EQUERRE DE FIXATION		46152311
34	---- CAPOT		46152312
33	---- BOUTON BLACK LEVEL		46153298AA
	---- BOUTON IRIS		46153299AA
30	---- PLATINE OCP50		47232212AB
40	---- PLAQUE SUPPORT DIGI		47232216AA
FIL 14	---- AXE DE POSITIONNEME		47232220AA
	FIL FIL NF93523 AWG26	250V NOIR KZ04-04B	99070686
Accessoires cablages			
36	COLL COLLIER ATTACHE	CABLE NYLON D:3,4MM NXO	T1003012
Cables-cordons			
FIL 01	FIL FIL NF93523 AWG24	600V NOIR KZ05-05B	99024576
FIL 02	FIL FIL NF93523 AWG24	600V ROUGE KZ05-05D	99029879
W 3	CAPL FFC 1.00 D10 180 L3	-07	T1002592
W 1	CAPL CABLE PLAT EQUIPE	FFC 1.00 A10 200 L3-3-07	T1005501
FIL 13	FIL FIL UL1371 AWG26	250V BLANC	T9006099
Cartes équipées			
	CARP PANEL PUPITRE OCP	PUPITRE OCP 40	1B518718AE
	CART SMARTCARD		46150624AB
Circuits intégrés mémoires CMS			
Z 200	MPMS CIRC PROC CMSPLCC52	MC68HC811E2FN	T1005225
Z 130	EPMS MEM EPRO CMS PLCC44	256KX16 120NS	T9001714
Commutateurs			
S 01 S 02	CODR CODEUR ROTATIF		91598936
Connecteur			
P 12	CNSC FICHE F DRT FIL	RECT 1X3 NU PAS2.54	91397837
P 12 A	CNCT 47565-001 (ACHAT PA	00)	T1000298
J 04	CNEC EMBASE M DRT FIL	XLR 04 SOUD J16	T1000305
P 13	CNSC FICHE F DRT FIL	RECT 2X6 PAS2MM SERIE LY	T9005682
P 13 A	CNCT CONTACT F SERT	AU/SN J26-30 D:0.7-1.2	T9005716
Divers mécaniques			
22	---- enjoliveur	ocp smart cart	46153297AB
	---- CHASSIS OCP		47232221AB
27	---- EQUERRE SMARTCARD		47268211AB
28	---- EQUERRE SUPPORT		47268212AB
BT 01	BTON BOUTON	301 03 62 ROUGE	91613746
BT 02	BTON BOUTON	301 03 65 VERT	91613747
BT 04	BTON BOUTON	301 03 66 BLEU	91613749
23	JOIN JOINT MOUSSE 140/65	EPR:3 LARG:5 DURASEAL	T1001398
35	ATT. ATTACHE CB 4232		T1005258
BT 03	BTON BOUTON	CAPSULE GRISE	T1005967
Etiquettes			
ETI 02	ETIM CE 10x10		47018990
ETI 000	ETIQ ETIQUETTE	DAT-1-637-10	91592387
	ETIQ ETIQUETTE POLYESTER	40X15MM (CF:39962994/E)	T1003312
ETI 03	ETIQ *ETIQUETTE 22X6,5MM	3921-3M(IDENTIF) BD:5000	T9004114
Visserie-Ecrous-Rondelles-Rivets			
VIS 07	RDEL RONDELLE	520251-80	91280718
VIS 10	RDEL RONDELLE M4U A4-50	PASSIVE	99012771
70	ECRU ECROU NU503-2-A	A PINCE-ACIER	99051303
VIS 05	RDEL RONDELLE 520301-80		99051638
VIS 02	VIS VIS INOX A2.70 PASS	F/90+ PHILIPS M3X8	99052425
VIS 24	RDEL RONDELLE M2,5U	A4-50 PASSIVE	99052511
VIS 04	ECRU ECROU H M2,5 U INOX	A4 PASSIVE	99059911
VIS 09	ECRU ECROU H M4 U INOX	A4 PASSIVE	99059913
VIS 03	VIS VIS INOX.A4 PASS. C	M2.5X6/6 U	99060919
VIS 26	VIS VIS INOX.A4 PASS. C	M3X6/6 U	99060923
VIS 30	VIS VIS INOX A4 PASS. C	M3X8/8 U	99060924
60	ENTT ENTRETOISE F/F	L10 TAR:M2.5 LAITON	T1000547
31	ENTT ENTRETOISE F/F	L20 TAR:M2.5 LAITON	T1005158
VIS 01	VIS VIS INOX A2.70 NOIR	CHC M2.5X6 SP39960411	T6000080
VIS 21	VIS VIS AUTO.T ACIER-Z	PLASTIQUE TCB+Z M2.5X6	T9004817
VIS 08	RDEL RONDELLE M4/8MM	EVENT.INOX-A2 DENTS-EXT	T9004859
VIS 25	VIS VIS INOXA2	FX90 M3X6	T9005891

ARTICLE: 4a150344

CART TOP KEY BOARD

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
CTL 2 CTL 3 CTL 1 CTL 4 IM R 93	LBAR DIOD LED BAR LBAR DIOD LED BAR REMP ETIQUETTE REMP RESIST CMS 0805	HLMP 2300 ROUGE HLMP 2400 JAUNE DAT-50-652-10 22 OHMS 5% 1/10W K250	91502834 91522293 91623311 99180486
Circuit imprimé nu	CIU ***TOP KEY BOARD OC	CDA: XG5-THCE0-6951	2A534552/01
Circuits intégrés CMS Z 90 Z 10 Z 20 Z 100 Z 110 Z 120	CIMS CIRC NUM CMS S014 CIMS CIRC NUM CMS S016P CIMS CIRC NUM CMS S016P	74ACT32 74HCT165T 74HC595M	T9000079 T9000852 T9000929
Commutateurs	TBP TOUCHE BOUTON POUSS COMP COMMUT. A POUSSOIR	TZ-0004 GRIS UNI. PT/PR CI JAUNE	91586666 T1000664
Condensateurs CMS C 2 C 1 C 10 C 100 C 120	C.CH COND CMS CTC3B TANT C.CH COND CMS 0805 X7R	4,7MF 20% 16V 100 NF 10% 63V	T9001370 T9004666
Connecteur J 110	CNEC EMBASE F COUD	FFC 1X10 CI2.4	T1005193
Résistances CMS-Potentiomètres CMS R 110 R 111 R 112 R 113 R 114 R 115 R 116 R 117 R 120 R 121 R 122 R 123 R 124 R 125 R 126 R 127 R 94 R 90 R 91 R 92 R 10 R 11 R 12 R 13 R 14 R 15 R 16 R 17 R 20 R 21 R 22 R 23 R 24 R 25 R 26 R 27	RESC RESIST CMS 0805 RESC RESIST CMS 0805 RESC RESIST CMS 0805 RESC RESIST CMS 0805	1 KOHM 1% 1/10W K100 0 OHM 100 OHMS 1% 1/10W K100 47.5 KOHMS 1% 1/10W K100	162102 99180514 T9003993 T9004023
Support	SULD TZ2004 CADRE		91627404

ARTICLE: 4b150345ab

CART BOTTOM KEY BOARD

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
CTL 101	LBAR DIOD LED BAR	HLMP 2300 ROUGE	91502834
CTL 72	LBAR DIOD LED BAR	HLMP 2400 JAUNE	91522293
CTL 100	RUBN PPI1710 LARG.70 ADH	EXCLUSIF AU 29293042	91536712
CTL 102	LED DIOD LED	HLMP-0301 ROUGE	T1005207
Circuit imprimé nu 1	CIU ***BOTTOM KEY BOARD	CDA:XB7-THCE0-1717	2B534551AB
Circuits intégrés CMS	CIMS CIRC NUM CMS SO14	74ACT32	T9000079
Z 102	CIMS CIRC NUM CMS SO16P	74HCT165T	T9000852
Z 30	CIMS CIRC NUM CMS SO16P	74HC595M	T9000929
Z 70			
Z 100			
Z 160			
Condensateurs CMS	C.CH COND CMS CTC3B TANT	4,7MF 20% 16V	T9001370
C 2	C.CH COND CMS 0805 X7R	100 NF 10% 63V	T9004666
C 1			
C 160			
Connecteur	CNEC EMBASE F COUD	FFC 1X10 CI2.4	T1005193
J 111	DIMS DIOD CMS SOT23	BAS16 [A6]	99110304
Diodes CMS	ETIQ *ETIQUETTE 22X6,5MM	3921-3M(IDENTIF) BD:5000	T9004114
CR 100			
Etiquettes			
IM			
Résistances CMS-Potentiomètres CMS	RESC RESIST CMS 0805	1 KOHM 1% 1/10W K100	162102
R 102	RESC RESIST CMS 0805	10 KOHMS 1% 1/10W K100	162103
R 132	RESC RESIST CMS 0805	332 OHMS 1% 1/10W K100	162331
R 136	RESC RESIST CMS 0805	470 OHMS 1% 1/10W K100	T9003836
R 142	RESC RESIST CMS 0805	100 KOHMS 1% 1/10W K100	T9003940
R 146	RESC RESIST CMS 0805	221 OHMS 1% 1/10W K100	T9003997
R 147	RESC RESIST CMS 0805	1 MOHM 1% 1/10W K1	T9004022
R 152	RESC RESIST CMS 0805	47.5 KOHMS 1% 1/10W K100	T9004023
R 156			
R 162			
R 166			
R 109			
R 100			
R 101			
R 111			
R 104			
R 177			
R 110			
R 30			
R 34			
R 40			
R 44			
R 50			
R 54			
R 60			
R 64			
R 70			
R 74			
R 103			
R 133			
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R 143			
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R 72			
R 76			
R 33			
R 37			
R 43			
R 47			
R 53			
R 57			
R 63			
R 67			
R 73			
R 77			

ARTICLE: 4c150343ab

CART MPU BOARD OCP40/50

REPERES TOPO						DESIGNATION 1		DESIGNATION 2		COMPOSANT	
						-- -- BUTEE				4A152145	
						REMP ENTRETOISE F/F		L15 TAR:M3 INOX		99069701	
Z	400					SWIR CIRC ANA DIL TO220		LT1076CT 5 PINS		T1005192	
						APIC APIC LCD		LM4045BG4C20SNG		T1005257	
Z	130 A					REMP SUPPORT F DRT CMS		PLCC44		T9001122	
Z	200 A					REMP SUPPORT F DRT CMS		PLCC52		T9001123	
LS	1					BUZR BUZZER		F/HCW06 6V 85DB -40+85		T9003918	
Accessoires cablages						PLOT E06626-L2M				91382049	
TP	104					PLMS PLOT CMS		RCT00000C		T1002596	
TP	360										
TP	1	TP	2	TP	3	TP	4				
TP	5	TP	301	TP	340	TP	350				
J	12					BARR BARRETTE M DRT		1X3 PTS SOUD PAS2.54		T9001677	
						BARR BARRETTE M DRT		1X40 PTS SOUD PAS 2		T9003099	
Cables-cordons						FIL FIL NF93523 AWG24		600V NOIR KZ05-05B		99024576	
						FIL FIL NF93523 AWG24		600V ROUGE KZ05-05D		99029879	
						FIL FIL CUIVRE ARGENTE		KW0330-A2 VERT A WRAPPER		99109359	
Circuit imprimé nu						CIU MPU BOARD OCP50		- CDA:XL8-THCE0-C188		2C534550AA	
01											
Circuits intégrés CMS						CIMS CIRC NUM CMS S014P		74HC04 INVERS. SN74HC04D		99137355	
Z	470	Z	540	Z	550	CIMS CIRC NUM CMS S014P		74HC74T		99142001	
Z	520					CIMS CIRC CMS S08P		NE567D		T1000981	
Z	340	Z	350	Z	360	CIMS CIRC CMS S08P		LMC6482AIM -40+85		T1002656	
Z	300	Z	310	Z	325	CIMS CIRC CMS SOL16P		MAX187BCWE 0+70		T1005176	
Z	330					CIMS CIRC CMS S08P		SI9430DY PMOSFET		T1005180	
Q	480					CIMS CIRC CMS SOL24P		MAX529EWG		T1005191	
Z	320					CIMS CIRC NUM CMS S014P		74ACT00		T9000055	
Z	180					CIMS CIRC NUM CMS S014		74ACT32		T9000079	
Z	190	Z	500			CIMS CIRC NUM CMS S014P		74HC125T		T9001569	
Z	160	Z	530	Z	560	CIMS CIRC NUM CMS S08P		MAX485E DRIVER RS485		T9004906	
Z	450	Z	460								
Circuits intégrés mémoires CMS						CIMS CIRC PROC CMS S08P		MAX700CSA DETEC TENSION		T1002869	
Z	150					MPMS MICROP CMS QFP132P		MC68302FC16C		T1005168	
Z	100					EEMS MEM EEPR CMS S08P		1KX16/2KX8 1MHZ 3MA		T9001604	
Z	90					SRMS MEM SRA CMS SOJ32P		128KX8 15NS 170MA		T9003029	
Z	110	Z	120								
Commutateurs						COML COMMUTATEUR LEVIER		EC16B24104 SPE 46152176		91691579	
SW	1	S	2	S	3	S	4	CODR CODEUR ROTATIF		T6000130	
S	1	S	6	S	7			COMS COMMUTATEUR CMS		1POLE 2POS. 2CONT. INV. T9004800	
S	5										
S	310										
Condensateurs						CAPA COND FIXE CAR1015		470 UF 20% 16V		T9001342	
C	404					CAPA COND FIXE CAR812		47 UF 20% 63V		T9003100	
C	402										
Condensateurs CMS						C.CH COND CMS 0805 NPO		33 PF 5% 63V		251330	
C	170	C	171	C	212	C	213	C.CH COND CMS 0805 NPO		680 PF 1% 63V	
C	343	C	353	C	363			C.CH COND CMS CTC3B TANT		1 UF 20% 35V	
C	322							C.CH COND CMS 0805 NPO		22 PF 5% 100V	
C	103	C	104					C.CH COND CMS 0805 NPO		100 PF 5% 100V	
C	501	C	561					C.CH COND CMS 0805		10 NF 10% 63V	
C	471	C	472					C.CH COND CMS 0805		1 NF 10% 100V	
C	202	C	203	C	204	C	205	C.CH COND CMS 0805			
C	206	C	207	C	208	C	209				
C	210	C	211	C	217	C	218				
C	219	C	220	C	221	C	222				
C	224	C	225					C.CH COND CMS 0805		4.7 NF 10% 100V	
C	352							C.CH COND CMS 0805		6.8 NF 10% 63V	
C	342							C.CH COND CMS 0805 NPO		3.3 NF 10% 100V	
C	362							C.CH COND CMS CTC3B TANT		4,7MF 20% 16V	
C	311	C	331	C	332	C	400				
C	510							C.CH COND CMS 0805 X7R		100 NF 10% 63V	
C	105	C	110	C	120	C	130				
C	151	C	160	C	180	C	190				
C	200	C	300	C	310	C	320				
C	321	C	330	C	340	C	344				
C	345	C	346	C	350	C	354				
C	355	C	360	C	364	C	365				
C	403	C	421	C	450	C	460				
C	470	C	500								
C	90	C	100	C	101	C	102				
Connecteur						CNEC EMBASE F DRT		FFC 10 CI2,4		T1002439	
J	10	J	11	J	20	CNEC EMBASE M DRT		SUBD 09 WRAP 2,74/2,84		T1005194	
J	3					CNEC EMBASE F DRT		SUBD 09 WRAP 2,74/2,84		T9001515	
J	1	J	2					RECT 2X6 PAS 2MM CI1.6		T9005693	
J	13										
Diodes CMS						LEDS DIOD LED CMS SOT23		LSS260-DO ROUGE		306024	
CRL	160	CRL	120			LEDS DIOD LED CMS SOT23		LGS260-DO VERTE		91613459	
CRL	1	CRL	350	CRL	360	LEDS DIOD LED CMS SOT23		LYS260-DO JAUNE		91613461	
CR	420					DIMS DIOD CMS SOT23		BAS16 [A6]		99110304	
CR	410	CR	411	CR	412	CR	421	DIMS DIOD CMS SOT23		BAV99	
CR	403					DIMS DIOD CMS		MBRD660CT 60V 6A		T1002443	
CR	400	CR	401					DIMS DIOD CMS		MBRD660CT 60V 6A	
Divers mécaniques						VROU VERRROU 8630-01		P/SUBD		91283652	
24											
Etiquettes						ETIQ *ETIQUETTE 22X6,5MM		3921-3M (IDENTIF) BD:5000		T9004114	
Fusibles CMS						FUMS FUSIBLE CMS		SMD030 0.3A		T9004705	
F	1										
Inductances						SELF SELF TSL1110		100 UH 10%		T9003230	
L	400	L	401								
Oscillateurs						OCMS OSCIL. CMS CSACS8T		Resonateur MOS 8 mh		T1002473	
Y	100	Y	200					QRTZ QUARTZ HC49S		47.3729MHZ 50PPM BP	
Y	170									T9000410	
Résistances CMS-Potentiomètres CMS						RESC RESIST CMS 0805		1 MOHM 5% 1/8W K200		161105	
R	144	R	172	R	212	R	400				
R	470	R	480								
R	101	R	102	R	104	R	125	RESC RESIST CMS 0805		1 KOHM 1% 1/10W K100	
R	148	R	160	R	173	R	190				
R	225	R	323	R	344	R	354				
R	364	R	422	R	471	R	502				
R	533	R	542								
R	90	R	213	R	214	R	226	RESC RESIST CMS 0805		10 KOHMS 1% 1/10W K100	
										162103	

ARTICLE: 4c150343ab

CART MPU BOARD OCP40/50

REPERES TOPO				DESIGNATION 1		DESIGNATION 2	COMPOSANT
R 302	R 347	R 411	R 481				
R 510	R 511	R 567					
R 342				RESC RESIST CMS 0805	392 OHMS 1% 1/10W K100	162391	
R 123	R 165	R 331	R 536	RESC RESIST CMS 0805	0 OHM	99180514	
R 552							
R 1				POMS POTENT CMS	10 K 20%	T1001973	
R 621				RESC RESIST CMS 3715	100 OHMS 1% 1/4W K50	T9000206	
R 401				RESC RESIST CMS 3715	2.7 KOHMS 1% 1/4W K50	T9000237	
R 622				RESC RESIST CMS 3715	2.05 KOHMS 1% 1/4W K50	T9000657	
R 340				RESC RESIST CMS 2211	8.25 KOHMS 0.5% 1/5W K50	T9001343	
R 360				RESC RESIST CMS 2211	4.75 KOHMS 0.5% 1/5W K50	T9001402	
R 350				RESC RESIST CMS 2211	6.19 KOHMS 0.5% 1/5W K50	T9001403	
CR 503	CR 512	CR 531	CR 537	THMS THERMIST CMS CN0805	K11G	T9003582	
CR 540	CR 560						
R 562				RESC RESIST CMS 0805	470 OHMS 1% 1/10W K100	T9003836	
R 209	R 210	R 211	R 217	RESC RESIST CMS 0805	100 KOHMS 1% 1/10W K100	T9003940	
R 218	R 219	R 220	R 221				
R 222	R 223	R 224	R 300				
R 301	R 304	R 325	R 326				
R 327	R 328	R 330	R 341				
R 343	R 351	R 353	R 361				
R 363	R 423	R 450	R 474				
R 103	R 105	R 106	R 107				
R 119	R 120	R 121	R 124				
R 130	R 131	R 132	R 145				
R 149	R 202	R 203	R 204				
R 205	R 206	R 207	R 208				
R 451				RESC RESIST CMS 0805	150 OHMS 1% 1/10W K100	T9003941	
R 201	R 216	R 312	R 410	RESC RESIST CMS 0805	100 OHMS 1% 1/10W K100	T9003993	
R 421	R 539	R 561					
R 420				RESC RESIST CMS 0805	221 OHMS 1% 1/10W K100	T9003997	
R 310				RESC RESIST CMS 0805	1 MOHM 1% 1/10W K1	T9004022	
R 161	R 162	R 170	R 490	RESC RESIST CMS 0805	47.5 KOHMS 1% 1/10W K100	T9004023	
R 500	R 501	R 513	R 530				
R 532	R 538	R 541	R 544				
R 550	R 553	R 563	R 564				
R 565	R 566						
R 133	R 134	R 135	R 136	RESC RESIST CMS 0805	4.75 KOHMS 1% 1/10W K100	T9004032	
R 140	R 141	R 142	R 143				
R 146	R 147	R 164	R 346				
R 322				RESC RESIST CMS 0805	33.2 KOHMS 1% 1/10W K100	T9004033	
R 352	R 362			RESC RESIST CMS 0805	162 OHMS 1% 1/10W K100	T9004037	
R 303				RESC RESIST CMS 0805	35.7 KOHMS 1% 1/10W K100	T9004065	
R 321				RESC RESIST CMS 0805	475 KOHMS 1% 1/10W K100	T9004073	
R 6	R 7	R 8	R 9	RESC RESIST CMS 0805	22.1 OHMS 1% 1/10W K100	T9004080	
R 311	R 324			RESC RESIST CMS 0805	332 KOHMS 1% 1/10W K100	T9004353	
R 482				RESC RESIST CMS 0603	2,21KO 1% 1/10W K100	T9005137	
Transistors CMS							
Q 325	Q 420			TRMS TRANS CMS SOT23	2N7002 [702] [72AB]	91685632	
Q 410	Q 510			TRMS TRANS CMS SOT23	SO3906 PNP	99110322	
Visserie-Ecrous-Rondelles-Rivets							
26				RDEL RONDELLE	520251-80	91280718	
31				ENTT ENTRETOISE F/F	L5 TAR:M3 NYLON	91351502	
22	34			RDEL RONDELLE 520301-80		99051638	
33				ECRU ECROU H M3 U INOX	A4 PASSIVE	99059912	
27				VIS VIS INOX.A4 PASS.	C M2.5X6/6 U	99060919	
23				VIS VIS INOX A4 PASS.	C M3X8/8 U	99060924	
32				VIS VIS INOX.A4 PASS.	C M3X12/12 U	99060925	

ARTICLE: 46150624ab

CART SMARTCARD

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
ID	REMP 25,4X6,35MM	POLYIMIDE H TEMP.	T9004679
Circuit imprimé nu 01	CIU SMARTCARD		29534687BA
Condensateurs CMS C 1 C 2	C.CH COND CMS CTC3D TANT C.CH COND CMS 0805 X7R	22MF 20% 20V 100 NF 10% 63V	T9003002 T9004666
Connecteur J 2 J 1	CNMS EMBASE F COUD CMS CNSC CONNECT LECTEUR DE	FFC 1X10 NAP CARTE A PUCE 7334 V02 15	T1002086 T9006091
Visserie-Ecrous-Rondelles-Rivets 10	ECRU ECROU A SERTIR	KFS2 M3	T1005104

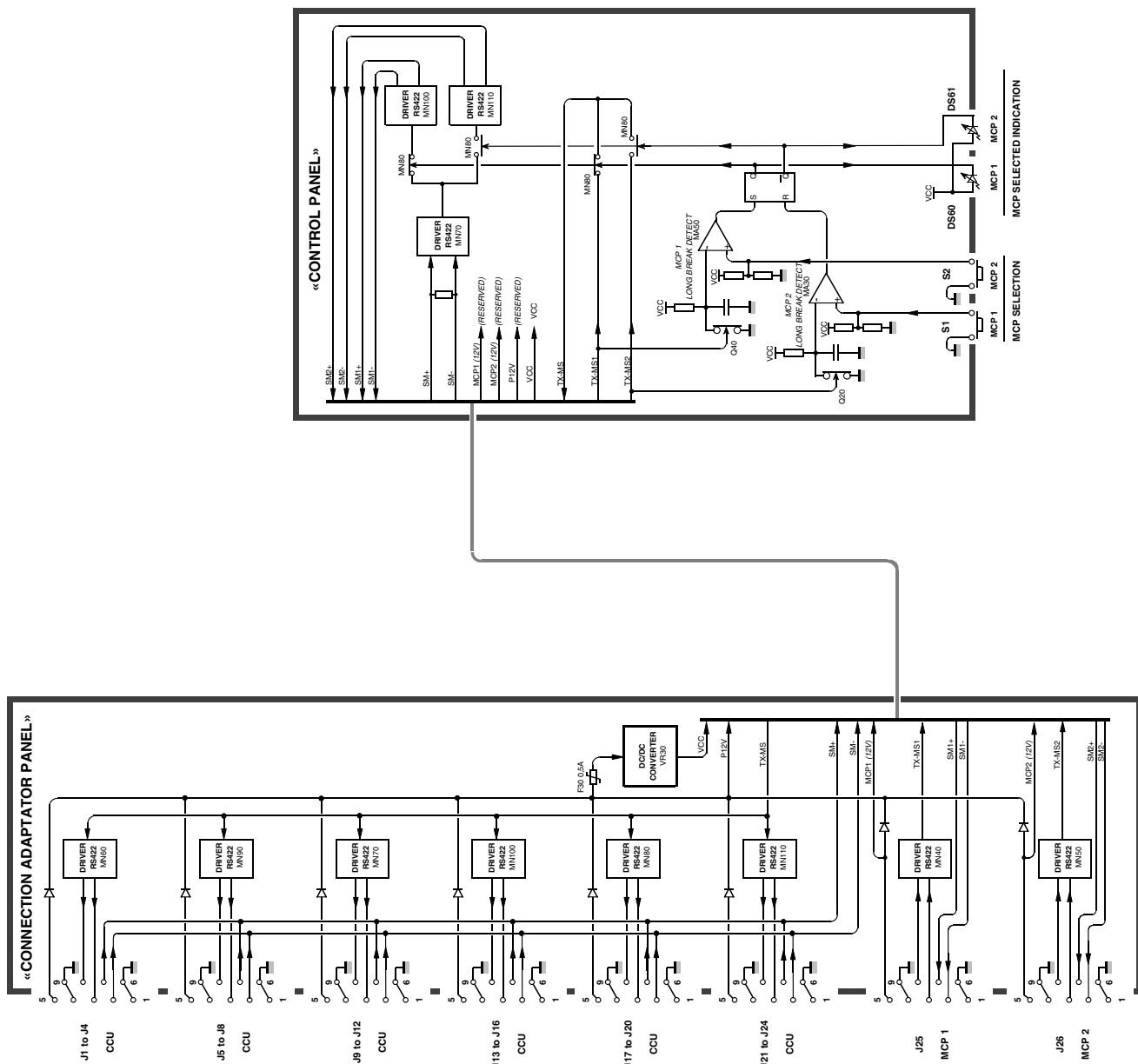
Chapter 3

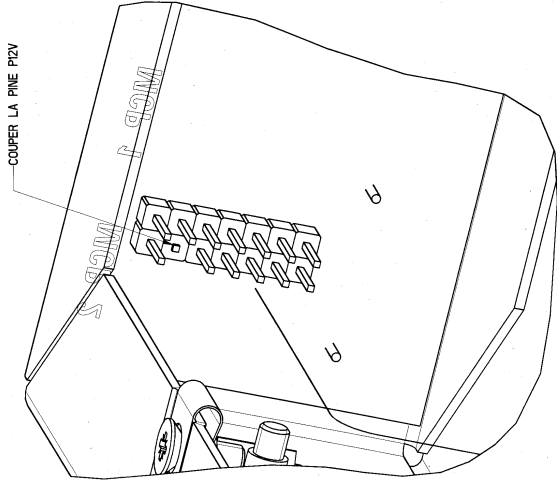
CAP

CAP			B1500H01AA
	Schematic	Layout	Part list
BLOCK DIAGRAM	BD0 1/1		
INTERCONNECTION	47268003AA/B-050		47268003AA
ASSEMBLED CAP	47268003AA/D-040		47268003AA
INTERCONNECTION CABLE	47268028AA/A-050		47268028AA
CONNECTION ADAPTATOR PANEL	46150719AA/B-030	46150719AA/A-046	46150719AA
CONTROL PANEL	46150774AA/B-030	46150774AA/A-046	46150774AA

SITE: ZREF

Niv.	Composant	Rév	P/M	T	Fa	Description	Description	Qté	lien	UM
Compos	B1500H01AA	02	M			CACC CAP	Connection Adaptor Panel			EA
1	47268003AA	05	M	x		COFT CAISSON CAP CABLE		1,0		EA
.2	46150719AA	02	M			CART CONNECTION	ADAPTATOR PANEL	1,0		EA
.2	46150774AA	03	M			CART CONTROL PANEL		1,0		EA
.2	47268015AA	01	M			ETIM ETIQ.SIGNALETIQUE	CAISSON CAP	1,0		EA
.2	47268017AA	01	M	x		KIT. KIT NAPPE CAP		1,0		EA
..3	47268028AA	01	M	X		CORD CABLE CAISSON CAP	14 FILS BERG	1,0		EA

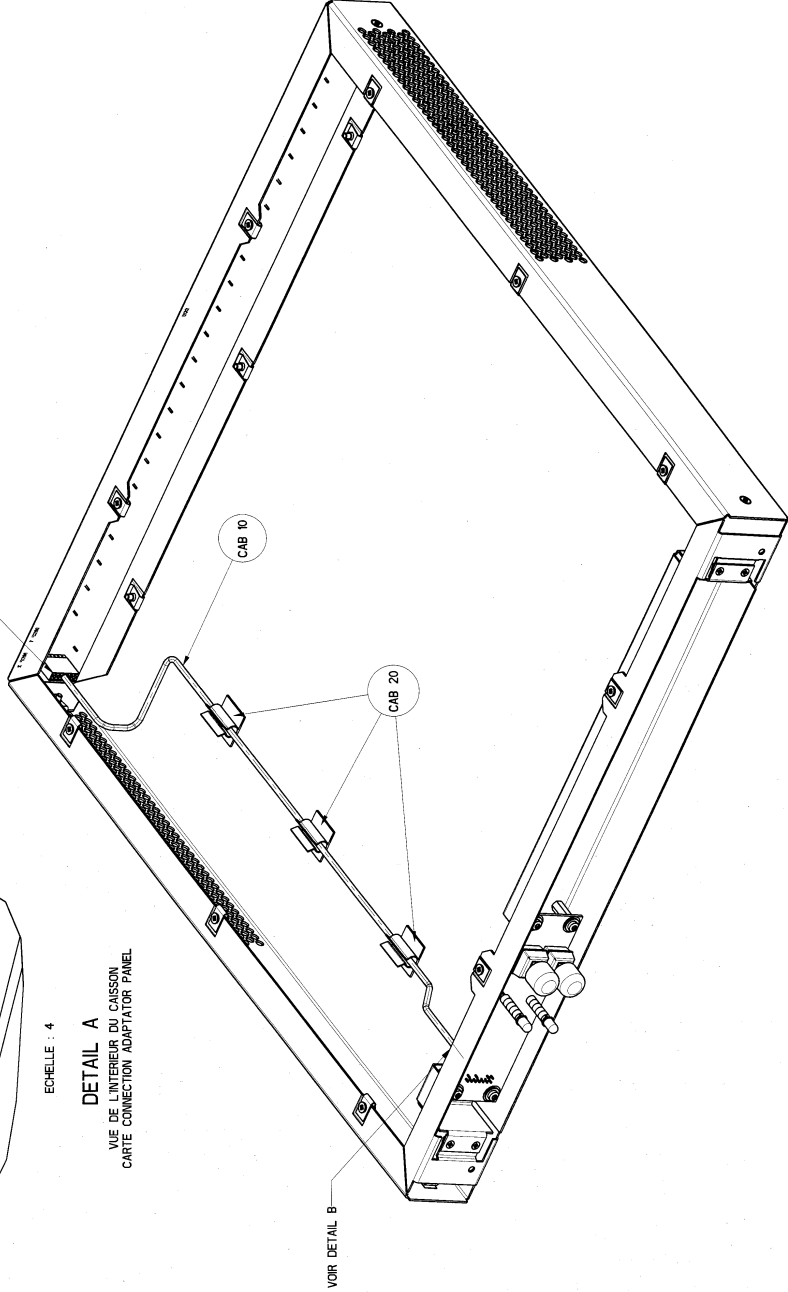




ECHELLE : 4

DETAIL A
VUE DE L'INTERIEUR DU CAISSON
CARTE CONNECTION ADAPTOR PANEL

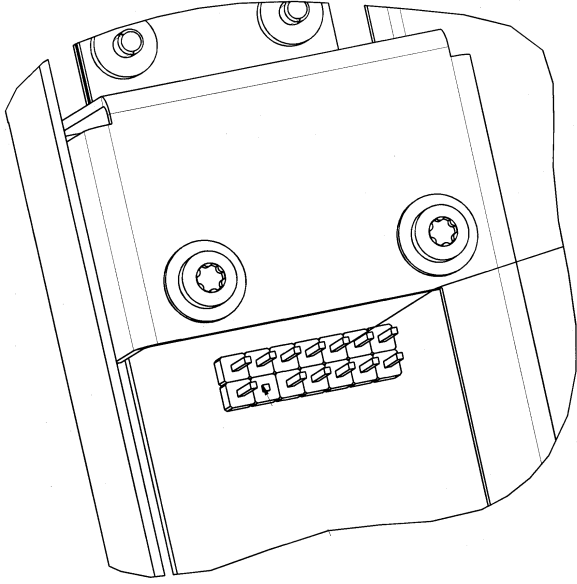
VOIR DETAIL A



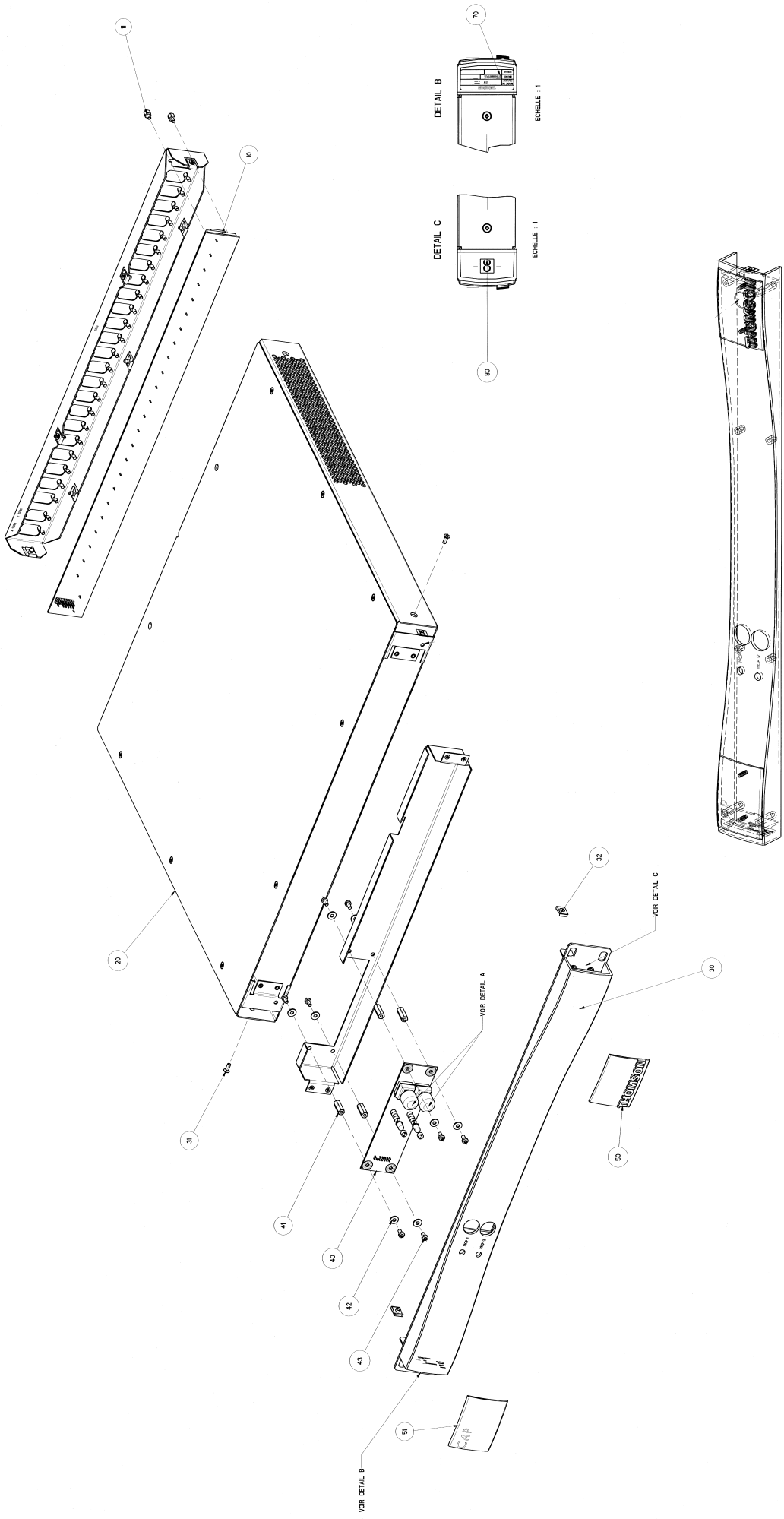
VOIR DETAIL B

DETAIL B

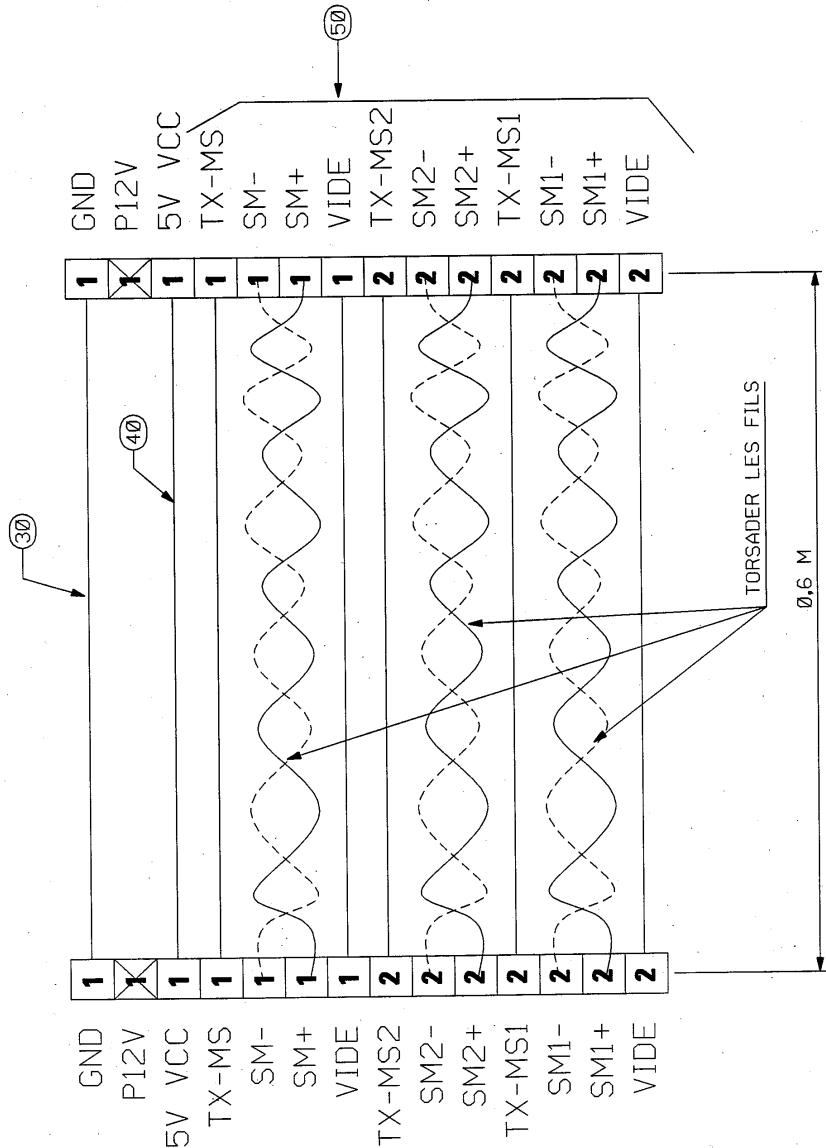
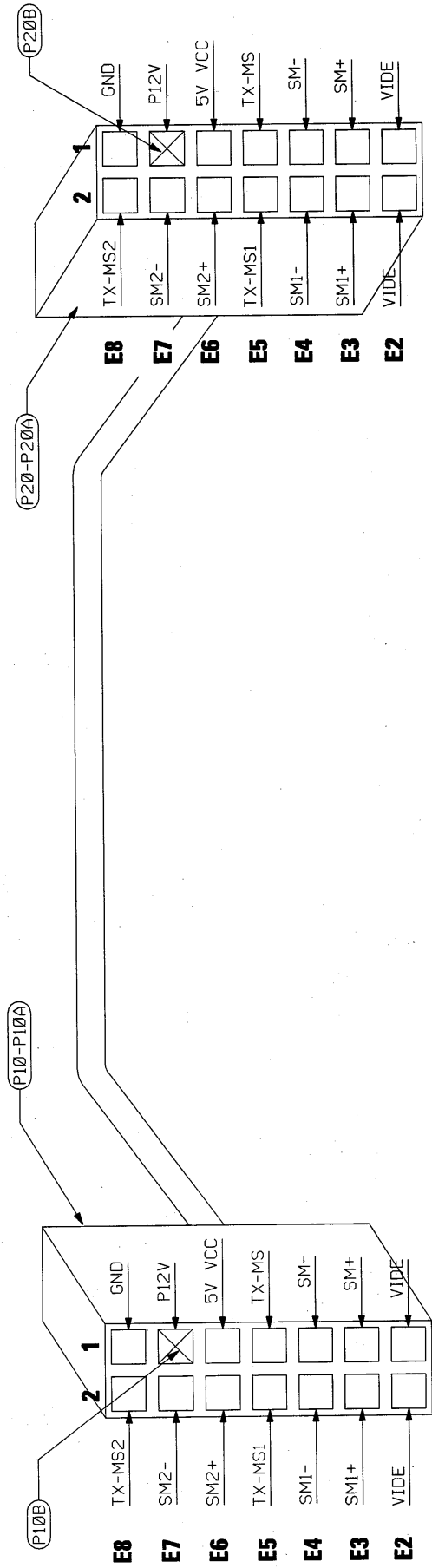
VUE DE L'INTERIEUR DU CAISSON
CARTE CONTROL PANEL



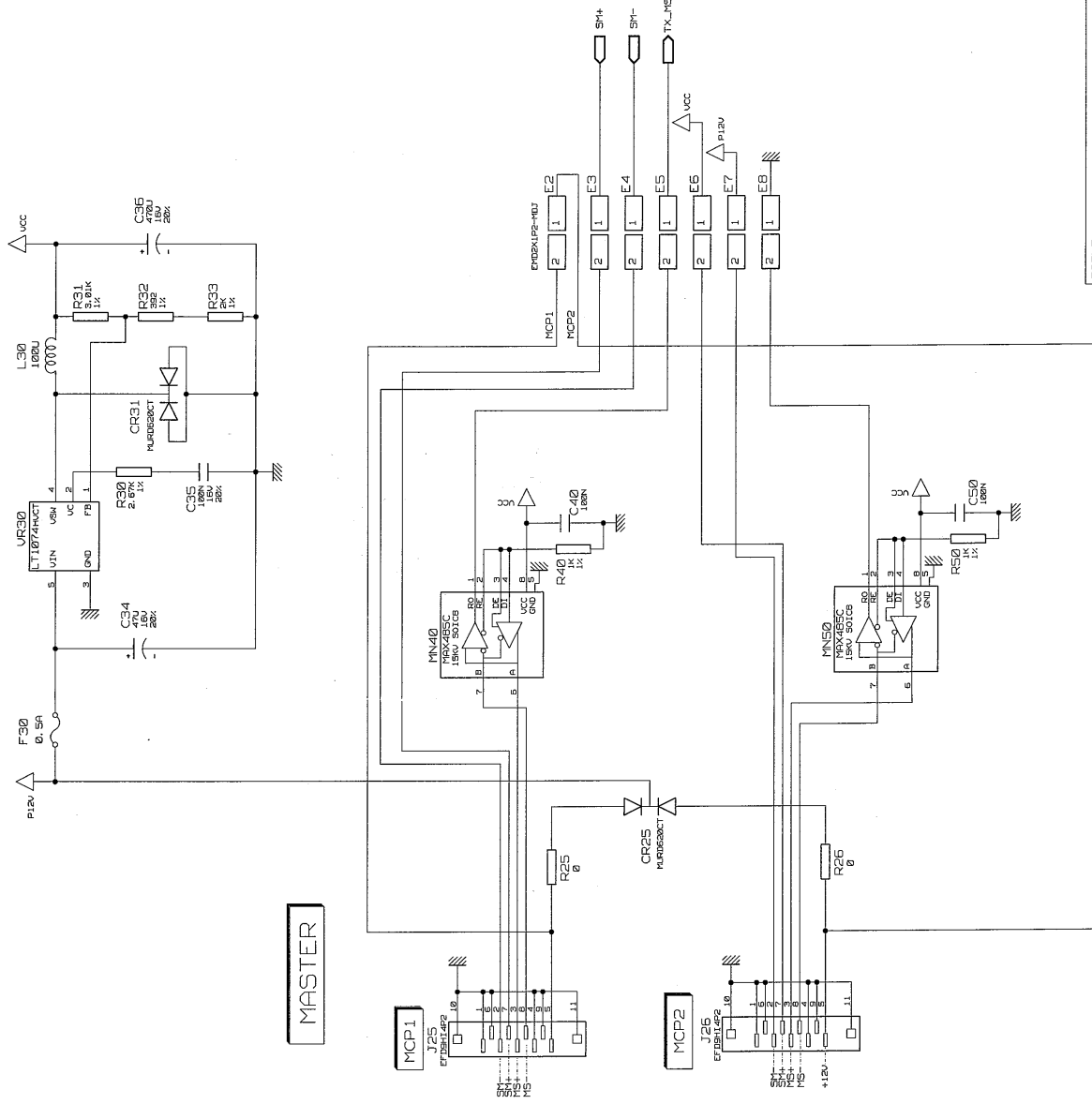
TITLE		INTERCONNECTION					CAP	
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET		
47268003AA		B	050	1	01/01			



TITLE				CAP			
ASSEMBLED CAP							
THOMSON	BROADCAST	DRAWING No.	REV	CODE	SIZE	SHEET	01/01
SYSTEMS		47268003AA	D	040	0		



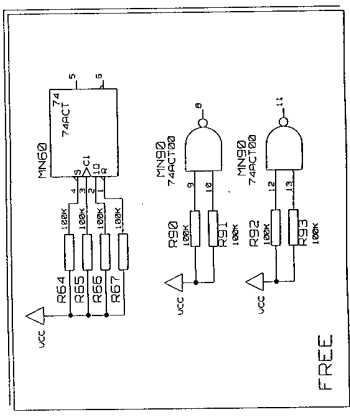
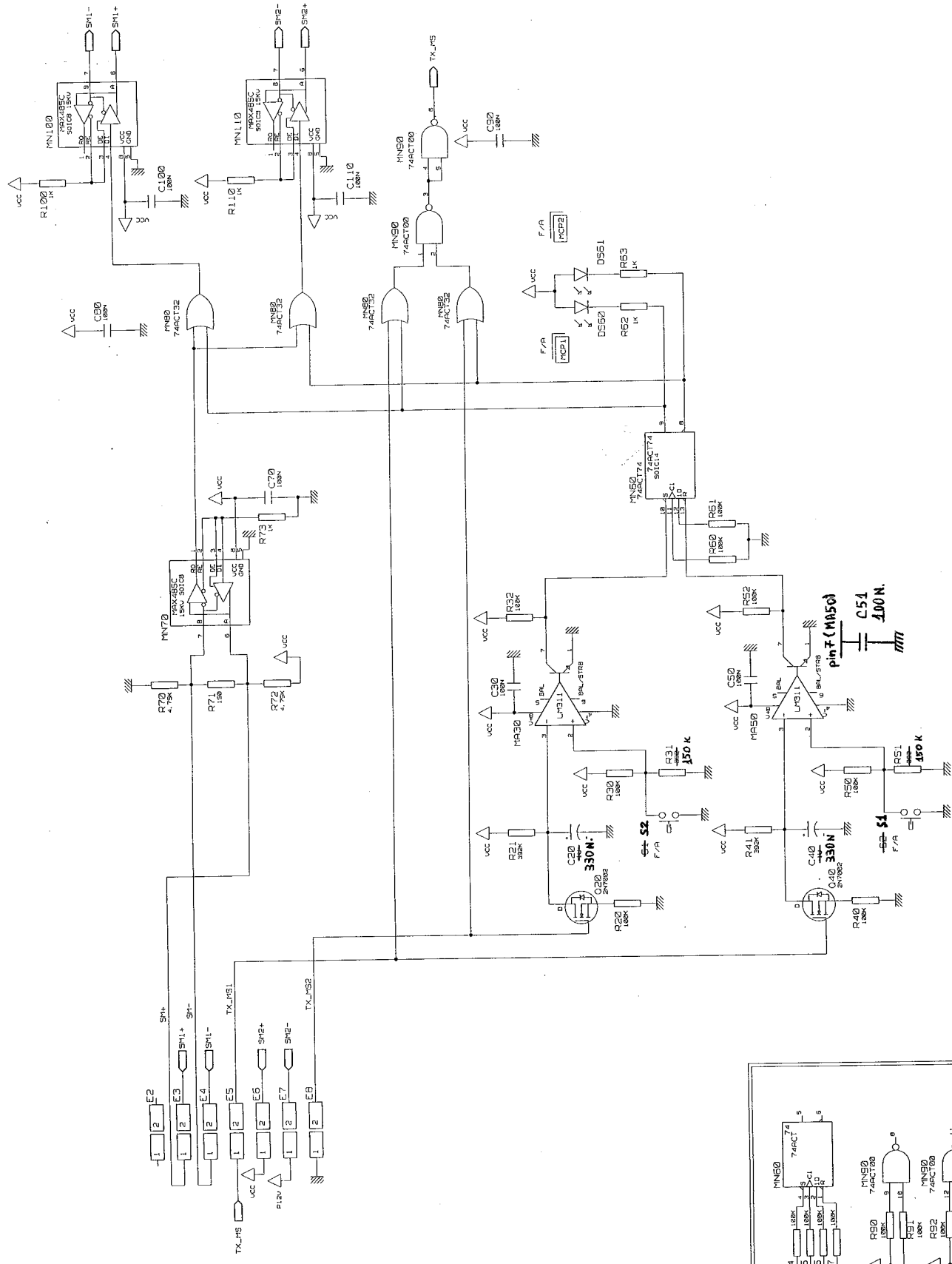
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DRAWING No		REV	CODE	SIZE	SHEET			
47268028AA		A	050	3	01/01			
THOMSON BROADCAST SYSTEMS								



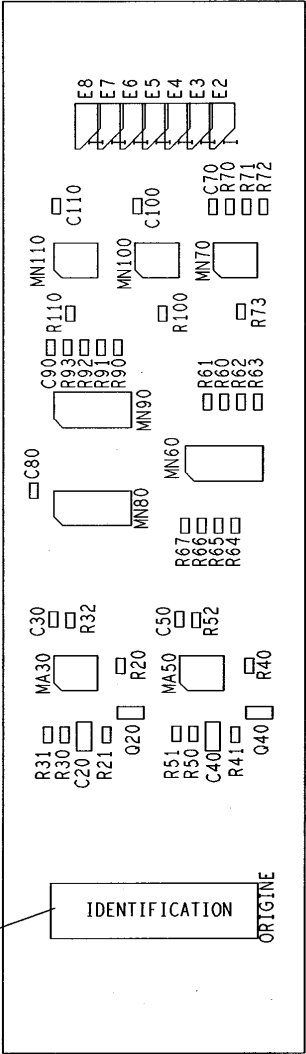
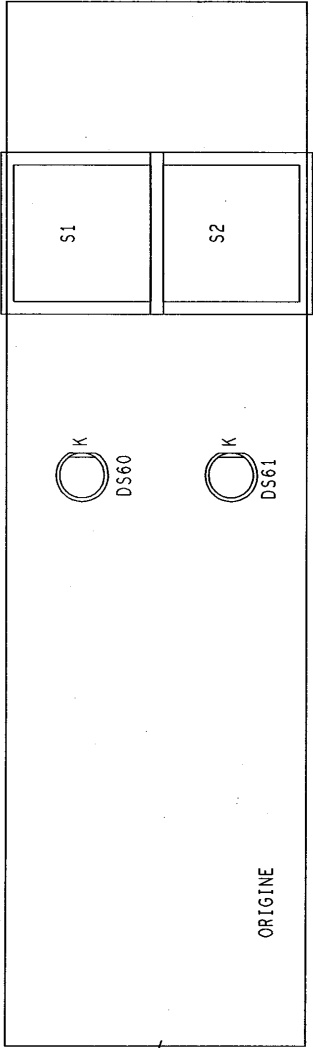
MASTER

CONNECTORS			
MASTER	PINS	SLAVE	
SH-	1	1	SH-
SH+	2	2	SH+
AB-	3	3	AB-
AB+	4	4	AB+
MS-	5	5	MS-
MS+	6	6	MS+
RA-	7	7	RA-
RA+	8	8	RA+
RD-	9	9	RD-
RD+	10	10	RD+

TITLE			
CONNECTION ADAPTOR PANEL			
CAP			
THOMSON BROADCAST SYSTEMS	DRAWING NO	REV CODE	SIZE
46150719AA	B	030	3
1	2	1	2



TITLE				CONTROL PANEL				CAP			
THOMSON BROADCAST SYSTEMS				DRAWING No				REV			
46150774AA				B				CODE			
				030				SIZE			
				3				SHEET			
				01/01							



TITLE				CAP			
CONTROL PANEL							
THOMSON	BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET	
		46150774AA	A	046	4	01/01	

ARTICLE: 47268003AA

COFT CAISSON CAP CABLE

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
-----	-----	-----	-----
Accessoires cablages			
CAB 20	CLIP CLIP	KKU 4	91364512
Cables-cordons			
50	FIL FIL UL1569 AWG22	300V BLANC	T9004742
30	FIL FIL UL1569 AWG22	300V NOIR	T9004743
40	FIL FIL UL1569 AWG22	300V ROUGE	T9004744
Cartes équipées			
10	CART CONNECTION	ADAPTATOR PANEL	46150719AA
40	CART CONTROL PANEL		46150774AA
Connecteur			
P 10 B P 20 B	DETR 65307-001		91343769
P 10 P 20	CNSC FICHE F DRT FIL	RECT 2X7 NU PAS2.54	91361109
P 10 A P 20 A	CNCT 47565-001 (ACHAT PA 00)		T1000298
Divers mécaniques			
60	---- LOT DE TOUCHES		47233034AA
20	---- CAISSON CAP	PRE-EQUIPE	47268001AA
30	---- ENJOLIVEUR ASSEMBLE		47268004AA
51	---- PLAQUE CAP		47268013AA
11	VROU VERROU A VIS FEMELL	4-40/4-40 L:4,5MM LAITON	T9004234
Etiquettes			
80	ETIM CE 10x10		47018990
50	ETIM PLAQUE THOMSON		47232723AA
70	ETIM ETIQ.SIGNALETIQUE	CAISSON CAP	47268015AA
Visserie-Ecrous-Rondelles-Rivets			
31	VIS VIS INOX.A4 PASS.	F/90 M3X8/8 U	99012676
42	RDEL RONDELLE M3U	A4-50 PASSIVE	99012770
43	VIS VIS INOX.A4 PASS. C	M3X6/6 U	99060923
41	ENTT ENTRETOISE F/F	L15 TAR:M3 INOX	T6000517
32	ECRU ECRU NU503-1-A	A PINCE ACIER	T9003980

ARTICLE: 47268028AA

CORD CABLE CAISSON CAP
14 FILS BERG

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
Cables-cordons			
50	FIL FIL UL1569 AWG22	300V BLANC	T9004742
30	FIL FIL UL1569 AWG22	300V NOIR	T9004743
40	FIL FIL UL1569 AWG22	300V ROUGE	T9004744
Connecteur			
P 10 B P 20 B	DETR 65307-001		91343769
P 10 P 20	CNSC FICHE F DRT FIL	RECT 2X7 NU PAS2.54	91361109
P 10 A P 20 A	CNCT 47565-001 (ACHAT PA 00)		T1000298

ARTICLE: 46150719aa

CART CONNECTION
ADAPTATOR PANEL

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
VR 30 ID	SWIR CIRC ANA DIL TO220 REMP 25,4X6,35MM	LT1074HVCT 5 BROCHES POLYIMIDE H TEMP.	T9003482 T9004679
Accessoires cablages E 2 E 3 E 4 E 5 E 6 E 7 E 8	BARR BARETTE SECABLE	1X36 MD	91395276
Circuit imprimé nu 01	CIU CONNECTION	ADAPTATOR PANEL	29534732AA
Circuits intégrés CMS MN 40 MN 50 MN 60 MN 70 MN 80 MN 90 MN 100 MN 110	CIMS CIRC NUM CMS SO8P	MAX485E DRIVER RS485	T9004906
Condensateurs C 36	CAPA COND FIXE CAR1015	470 UF 20% 16V	T9001342
Condensateurs CMS C 34 C 35 C 40 C 50 C 60 C 70 C 80 C 90 C 100 C 110	C.CH COND CMS CTC3D TANT C.CH COND CMS 0603 Z5U	47 UF 20% 16V 100 NF 20% 16V	T1006086 T9005086
Connecteur J 1 J 2 J 3 J 4 J 5 J 6 J 7 J 8 J 9 J 10 J 11 J 12 J 13 J 14 J 15 J 16 J 17 J 18 J 19 J 20 J 21 J 22 J 23 J 24 J 25 J 26	CNEC EMBASE F DRT	SUBD 9 SOUD CI2.4 P2.75	T9003545
Diodes CMS CR 1 CR 2 CR 3 CR 4 CR 5 CR 6 CR 7 CR 8 CR 9 CR 10 CR 11 CR 12 CR 13 CR 14 CR 15 CR 16 CR 17 CR 18 CR 19 CR 20 CR 21 CR 22 CR 23 CR 25 CR 31	DIMS DIOD CMS	MBRD660CT 60V 6A	T1002444
Fusibles CMS F 30	FUMS FUSIBLE CMS	SMD050 0.5A	T1001996
inductances L 30	SELF SELF TSL1110	100 UH 10%	T9003230
Résistances CMS-Potentiomètres CMS R 25 R 26 R 60 R 70 R 40 R 50 R 100 R 110 R 80 R 90 R 33 R 30 R 31 R 32	RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603	0 OHM 1/16W K250 1 KO 1% 1/10W K100 2 KO 1% 1/10W K100 2,67KO 1% 1/10W K100 3,01KO 1% 1/10W K100 392 O 1% 1/10W K100	T9000877 T9005114 T9005136 T9005139 T9005140 T9005163

ARTICLE: 46150774aa

CART CONTROL PANEL

REPERES TOPO	DESIGNATION 1	DESIGNATION 2	COMPOSANT
DS 60 DS 61 ID	LED DIOD LED 5MM REMP 25,4X6,35MM	HLMP-3507 VERT POLYIMIDE H TEMP.	91361406 T9004679
Accessoires cablages E 2 E 3 E 4 E 5 E 6 E 7 E 8	BARR BARETTE SECABLE	1X36 MD	91395276
Circuit imprimé nu 01	CIU CONTROL PANEL		29534733AA
Circuits intégrés CMS MA 30 MA 50 MN 90 MN 80 MN 60 MN 70 MN 100 MN 110	CIMS CIRC ANA CMS SO8P CIMS CIRC NUM CMS S014P CIMS CIRC NUM CMS SO14 CIMS CIRC NUM CMS SO14 CIMS CIRC NUM CMS SO8P	LM311 COMPAREUR 74ACT00 74ACT32 74ACT74 MAX485E DRIVER RS485	99129838 T9000055 T9000079 T9000087 T9004906
Commutateurs S 1 S 2	COMP COMMUT. A POUSSOIR	MX1A-11NW	L0000565
Condensateurs CMS C 20 C 40 C 30 C 50 C 51 C 70 C 80 C 90 C 100 C 110	C.CH COND CMS CTC3A TANT C.CH COND CMS 0603 Z5U	0.33 UF 20% 35V 100 NF 20% 16V	T9003001 T9005086
Résistances CMS-Potentiomètres CMS R 62 R 63 R 73 R 100 R 110 R 20 R 30 R 32 R 40 R 50 R 52 R 60 R 61 R 64 R 65 R 66 R 67 R 90 R 91 R 92 R 93 R 70 R 72 R 71 R 31 R 51 R 21 R 41	RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603 RESC RESIST CMS 0603	1 KO 1% 1/10W K100 100 KO 1% 1/10W K100 4,75KO 1% 1/10W K100 150 O 1% 1/10W K100 150 KO 1% 1/10W K100 392 KO 1% 1/10W K100	T9005114 T9005116 T9005145 T9005155 T9005198 T9005207
Transistors CMS Q 20 Q 40	TRMS TRANS CMS SOT23	2N7002 [702] [72AB]	91685632
Visserie-Ecrous-Rondelles-Rivets DS 60 A DS 61 A	ENTL ENTRETOISE POUR LED	L3.3 DEXT 5 NYLON	T1005973