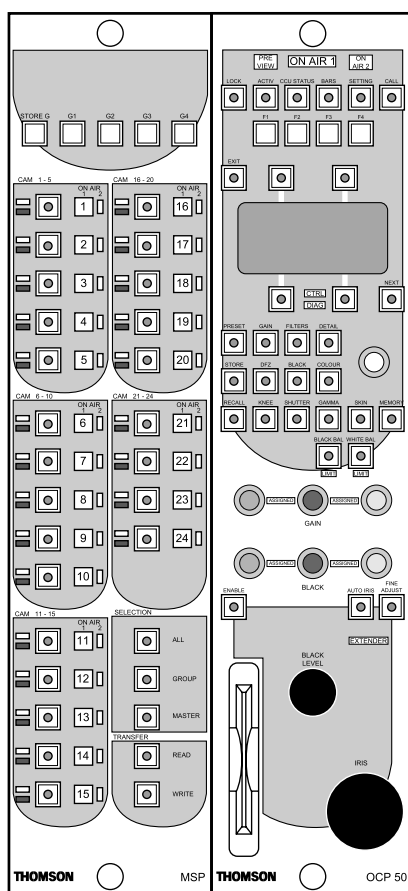


SYSTÈME CENTRALISÉ MCP

MCP CENTRALIZED SYSTEM



MANUEL TECHNIQUE

TECHNICAL MANUAL

B1500M08MA

Page blanche

Blanking page

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
------------------	----------

CHAPTER 2

OCP 50	5
---------------------	----------

CHAPTER 3

CAP	7
------------------	----------

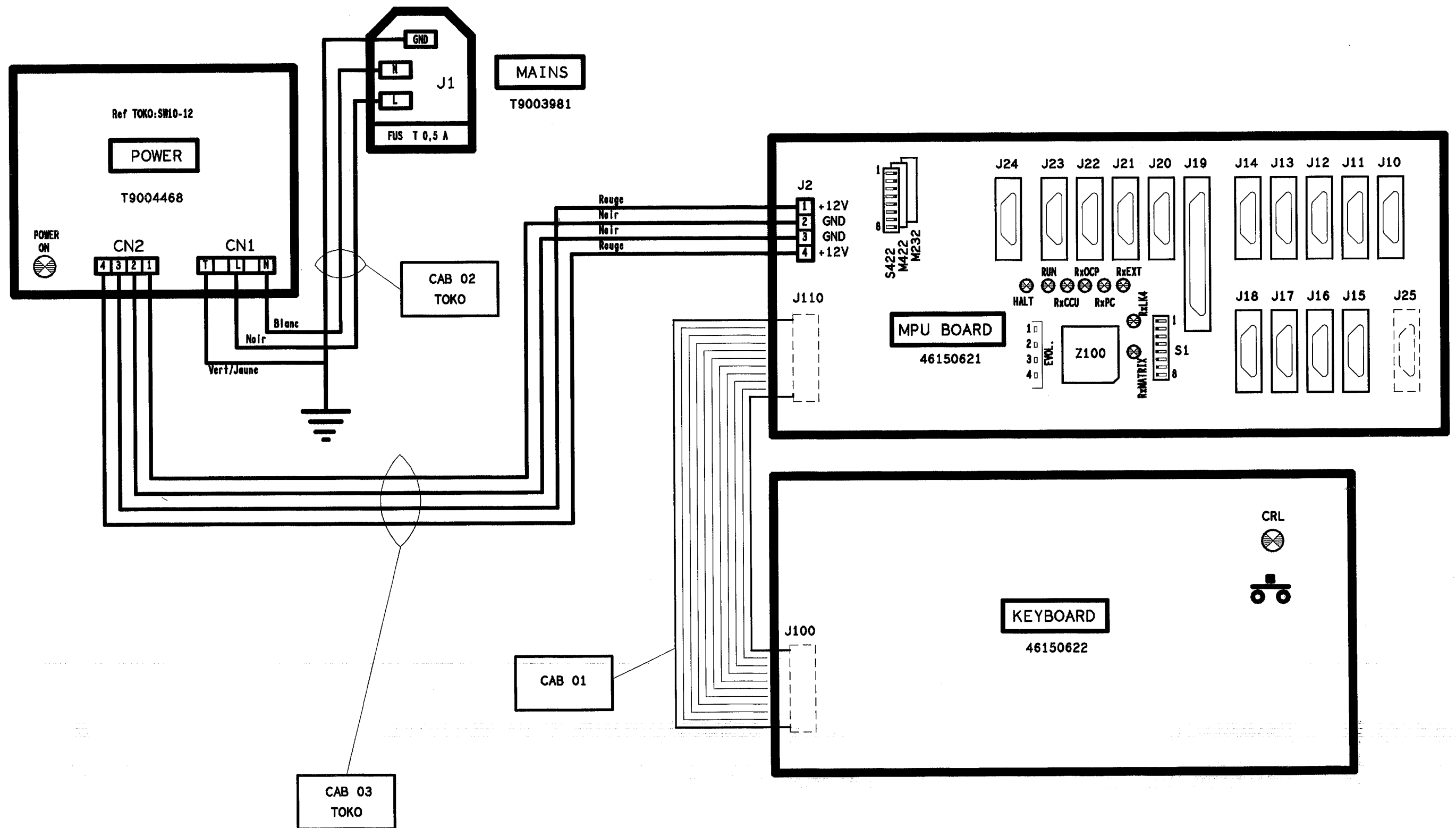
Chapter 1

MSP

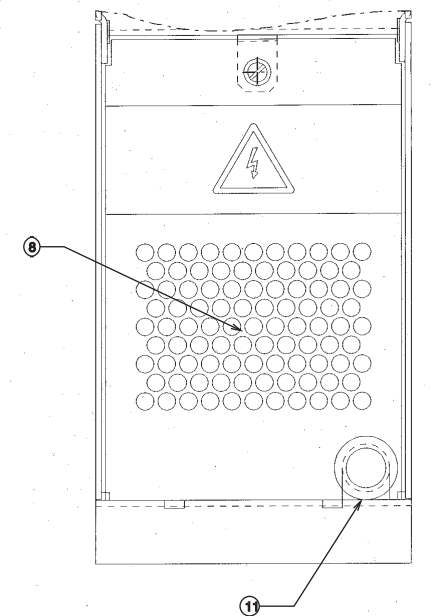
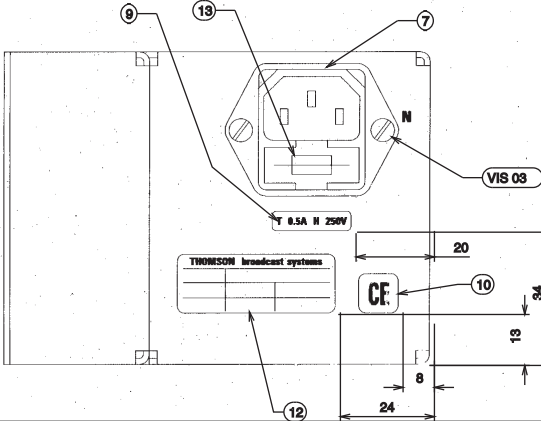
MSP			47232140AA
	Schematic	Layout	Part list
BLOCK DIAGRAM	BD0 1/1		
INTERCONNECTION	47232140/B-050		47232140AA
ASSEMBLED MSP	47232140/D-040		47232140AA
MAINS POWER CABLE	47232295/A-050		47232295AA
MPU POWER CABLE	47232296/B-050		47232296AA
MPU BOARD	4A150621/D-030	4A150621/B-046	4A150621AA
KEY BOARD	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		MSP				
		INTERCONNECTION				
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		47232140	B	050	3	01/01



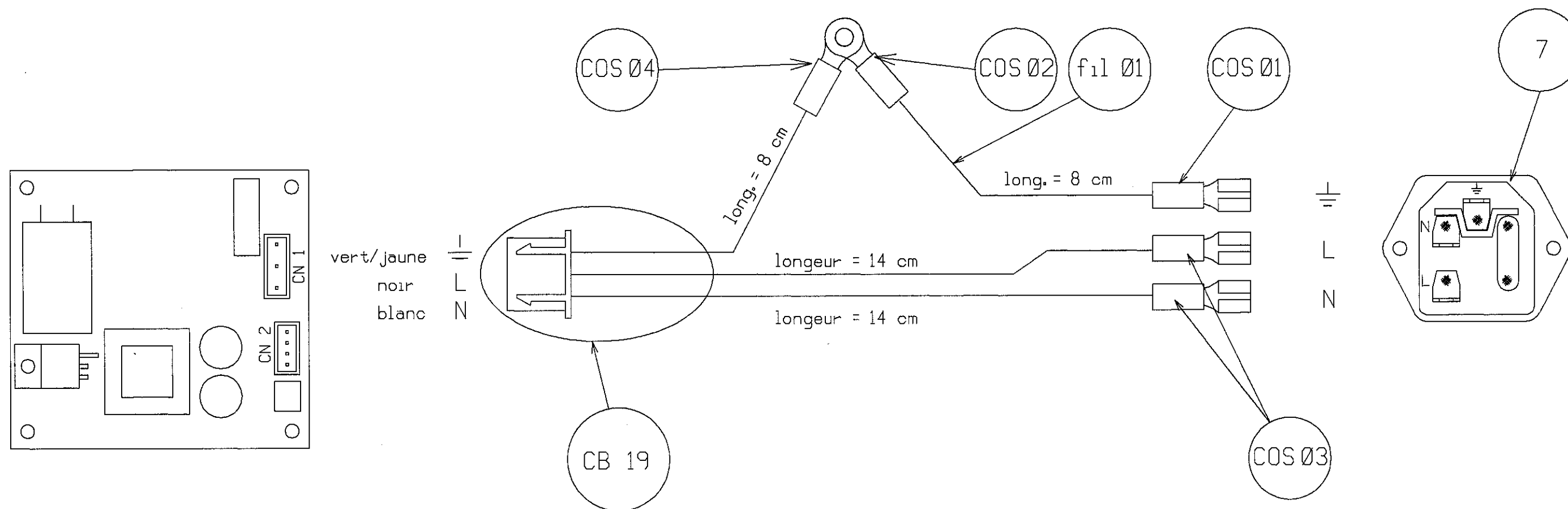
TITLE				MSP		
ASSEMBLED MSP						
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		47232140	D	040	1	01/01

connecte sur **CN1**
ALIMENTATION

VERS

embase secteur

connecte sur
goujon masse chassis



CB 19

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

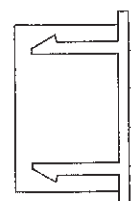
TITLE					MSP	
THOMSON BROADCAST SYSTEMS					MAINS POWER CABLE	
DRAWING No		REV	CODE	SIZE	SHEET	
47232295		A	050	3	01/01	

connecte sur **CN2**
ALIMENTATION

VERS

connecte sur
carte MPU

4 rouge V+
3 rouge V+
2 noir V-
1 noir V-



longueur = 15 cm

CB 25

BORNE

4 + 12 V rouge
3 GND noir
2 GND noir
1 + 12 V rouge

J01 b

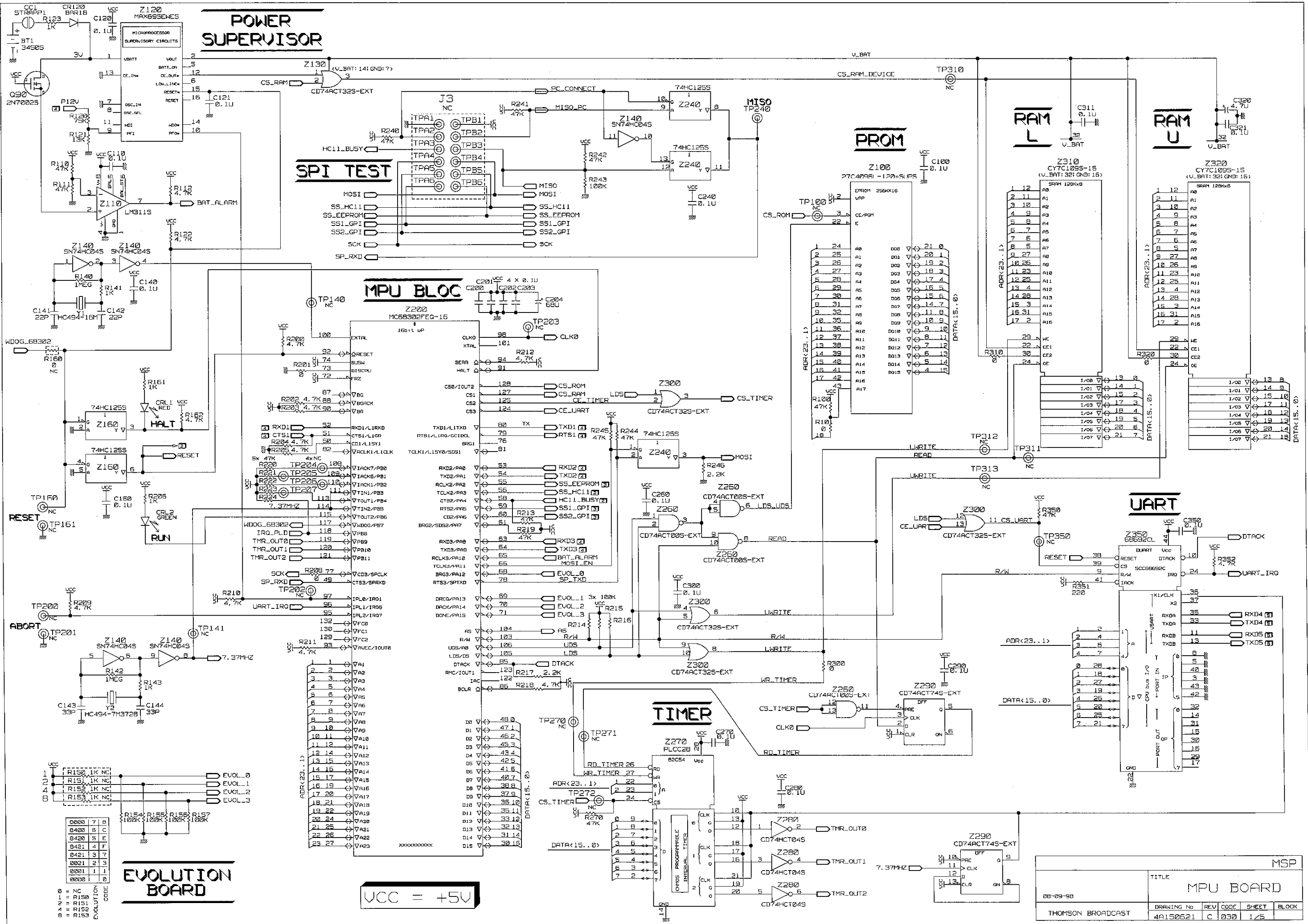
J01

CB 25

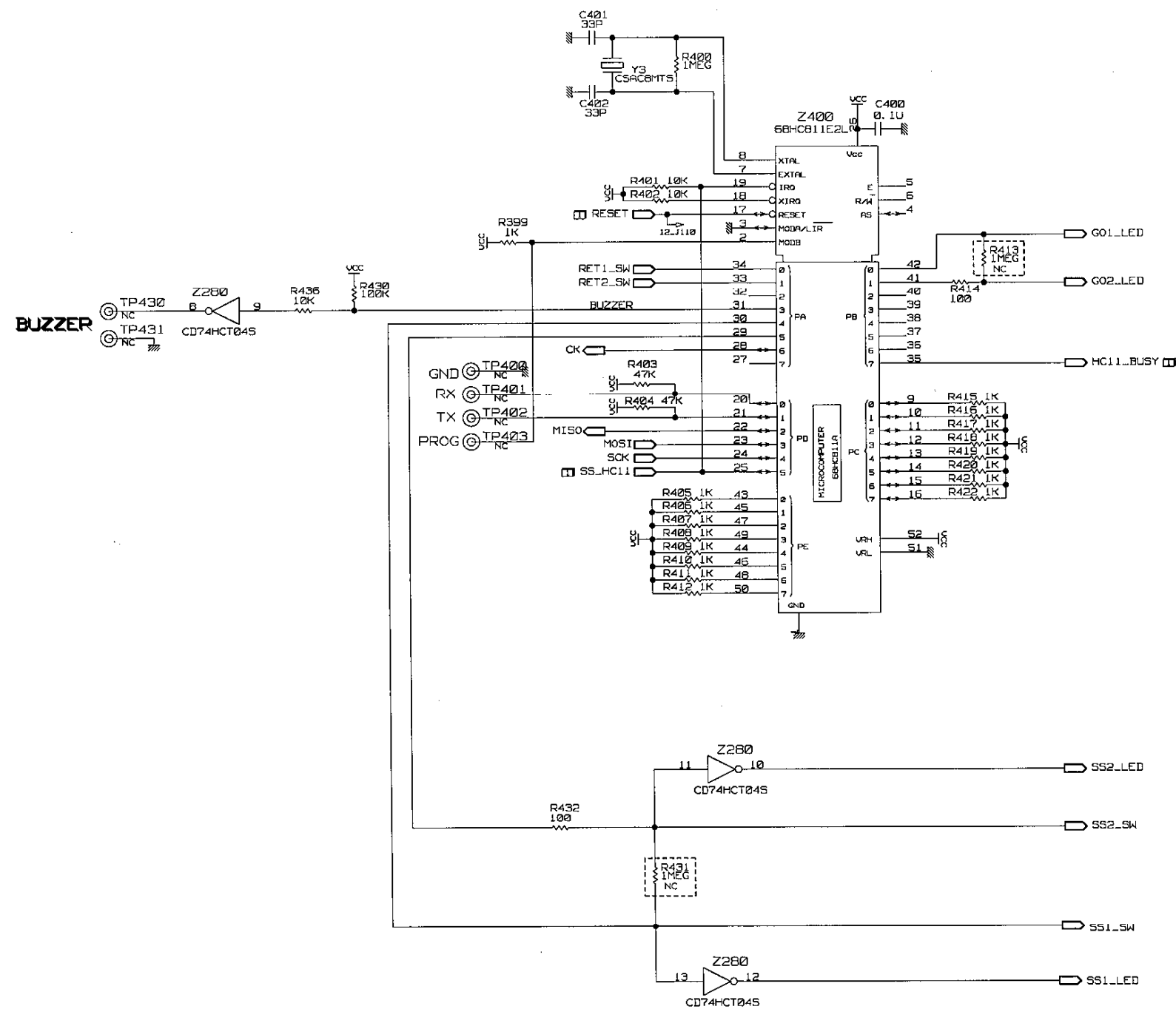
kit cable CB 25 (1connecteur + 2 fils rouge et 2 fils noir)
Conducteur section 0.34^2 mm = AWG22

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

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REPRODUCTION, EN TOUTE OU EN PARTIE, EST INTERDITE SANS LAUTORIZATION
DE THOMSON BROADCAST.

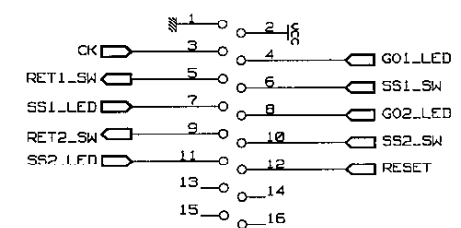


SWITCHES AND LEDs INTERFACE



KEY BOARD

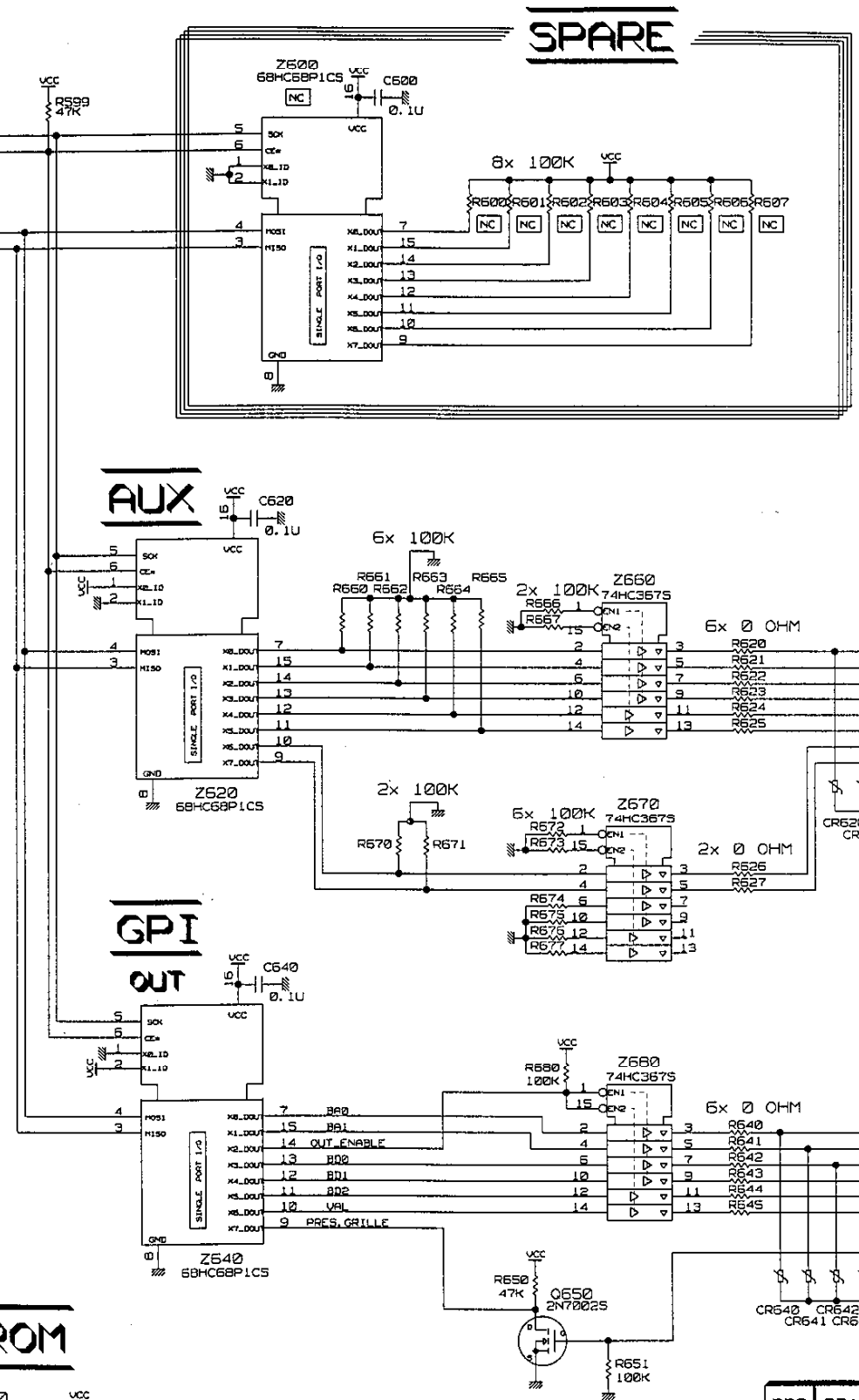
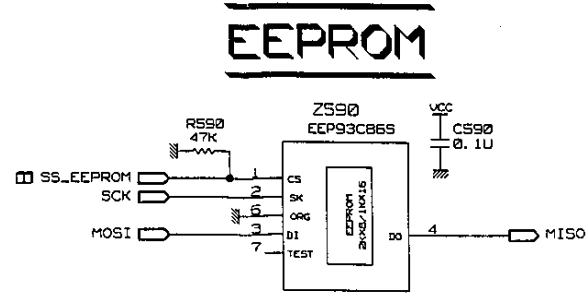
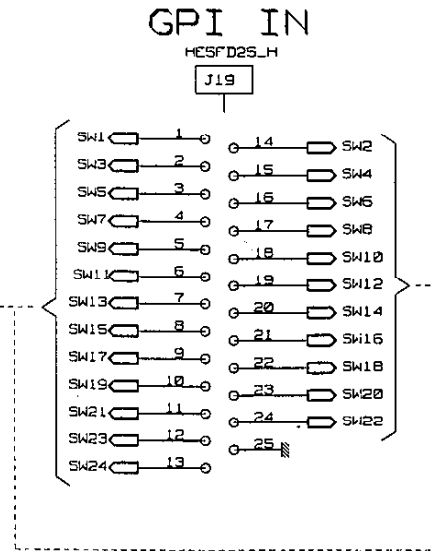
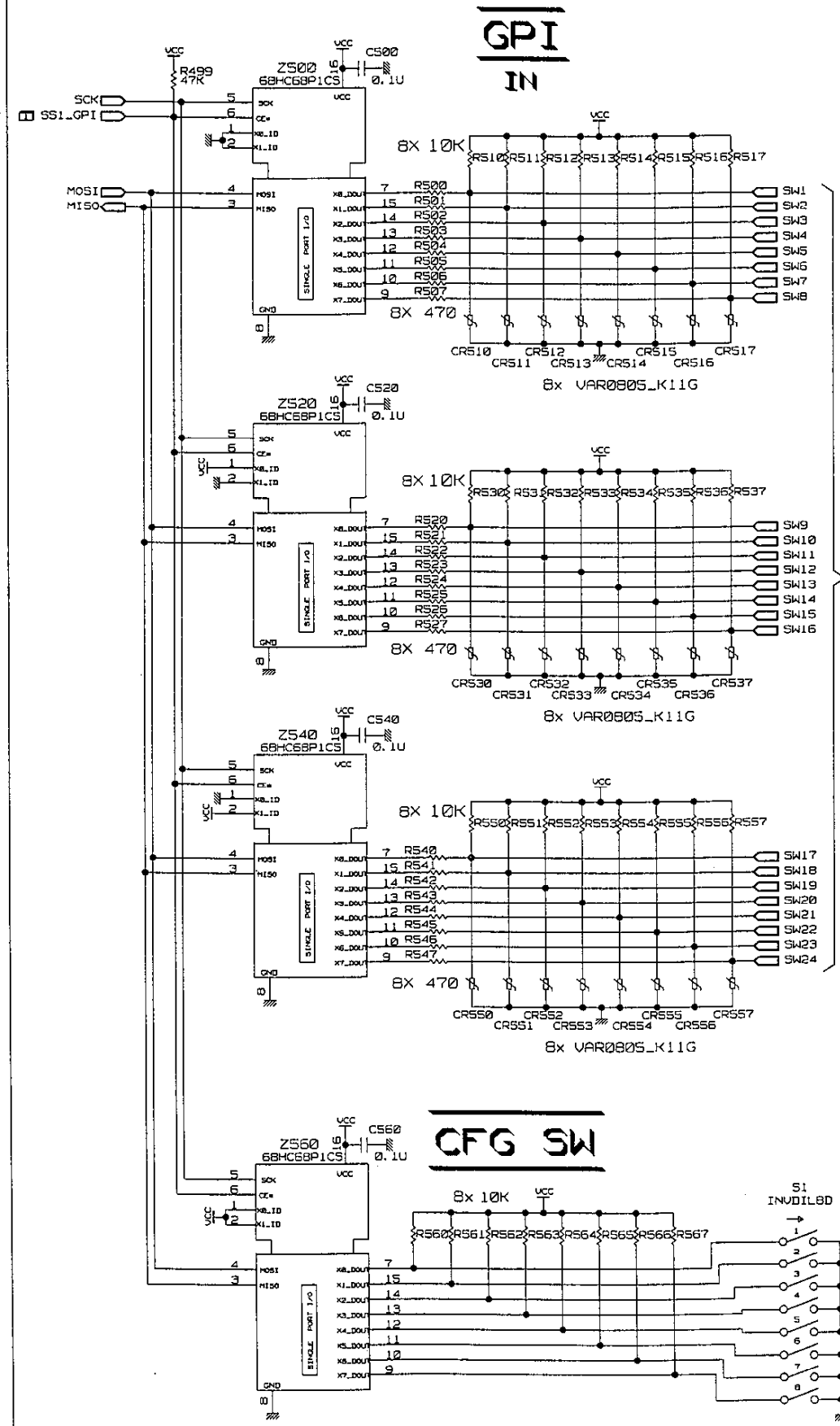
EFC16P2FFC
J110



VCC = +5V

MSP					
TITLE					
MPU BOARD					
DRAWING No	REV	CODE	SHEET	BLOCK	
4A150621	A	030	2/5		

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BD2	BD1	BD0	BA2	BA1	BA0	VAL
0	0	0	0	0	0	0
0	0	1	0	0	0	0
0	1	0	0	0	0	0

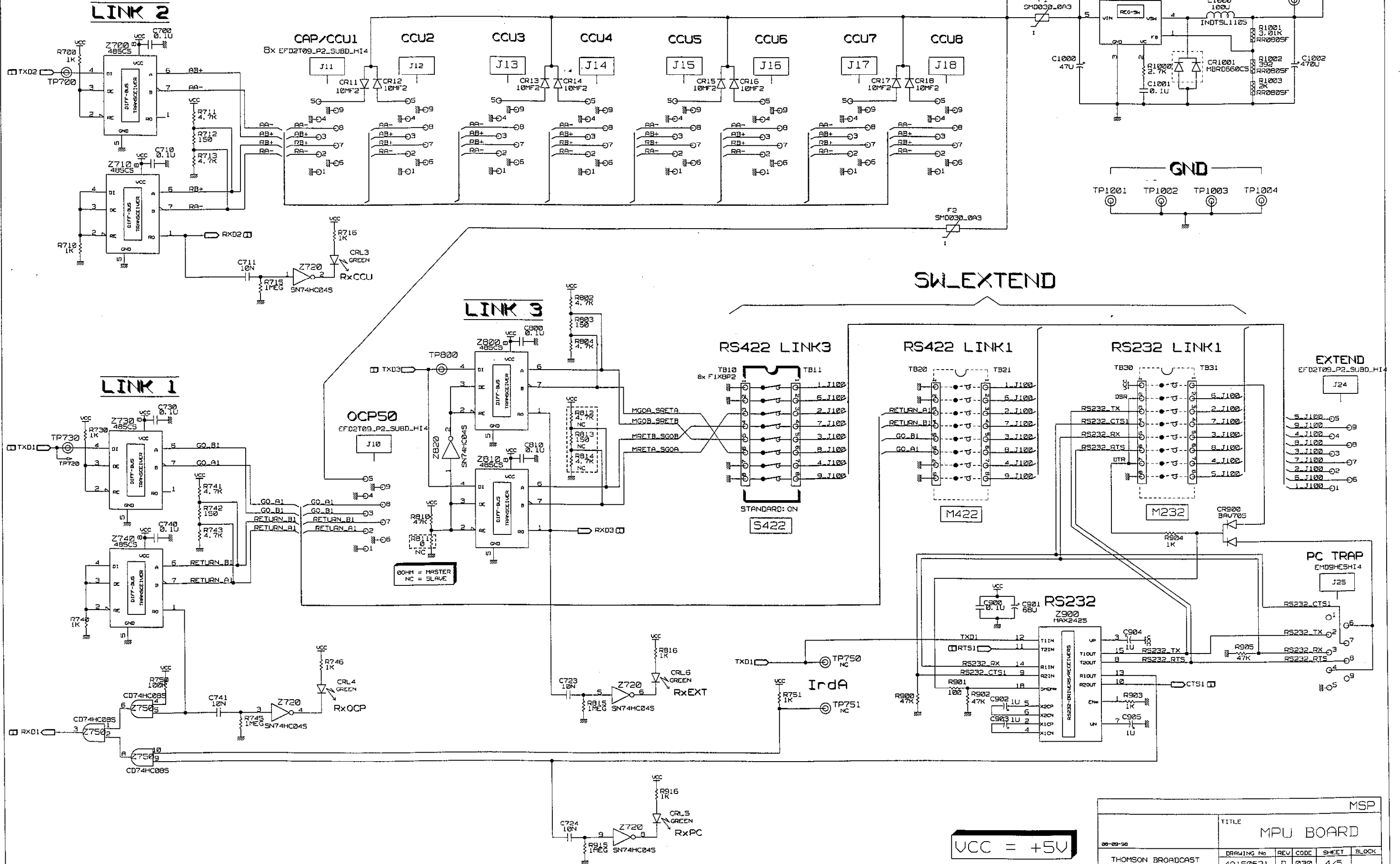
CODE:
BD2: BD0 REPRESENTS LE NUMERO DE SELECTION
BA2: BA0 REPRESENTS L'ADRESSE DE LA CARTE GRILLE
VAL DOIT ETRE MIS A 0 PENDANT 20ms POUR VALIDER LES DATA

VCC = +5V

SERIAL LINK

POWER

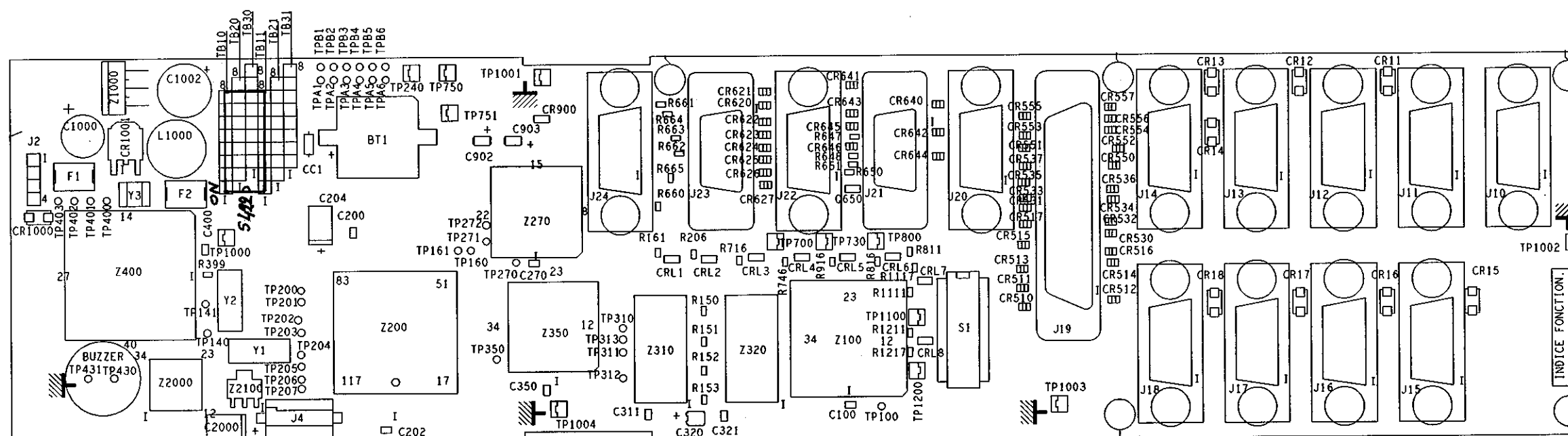
DC/DC CONVERTER



VCC = +5V

MSP			
TITLE		MPU BOARD	
08-09-98	DRAWING No	REV CODE	SHEET BLOCK
THOMSON BROADCAST	4A150621	D 030	4/5

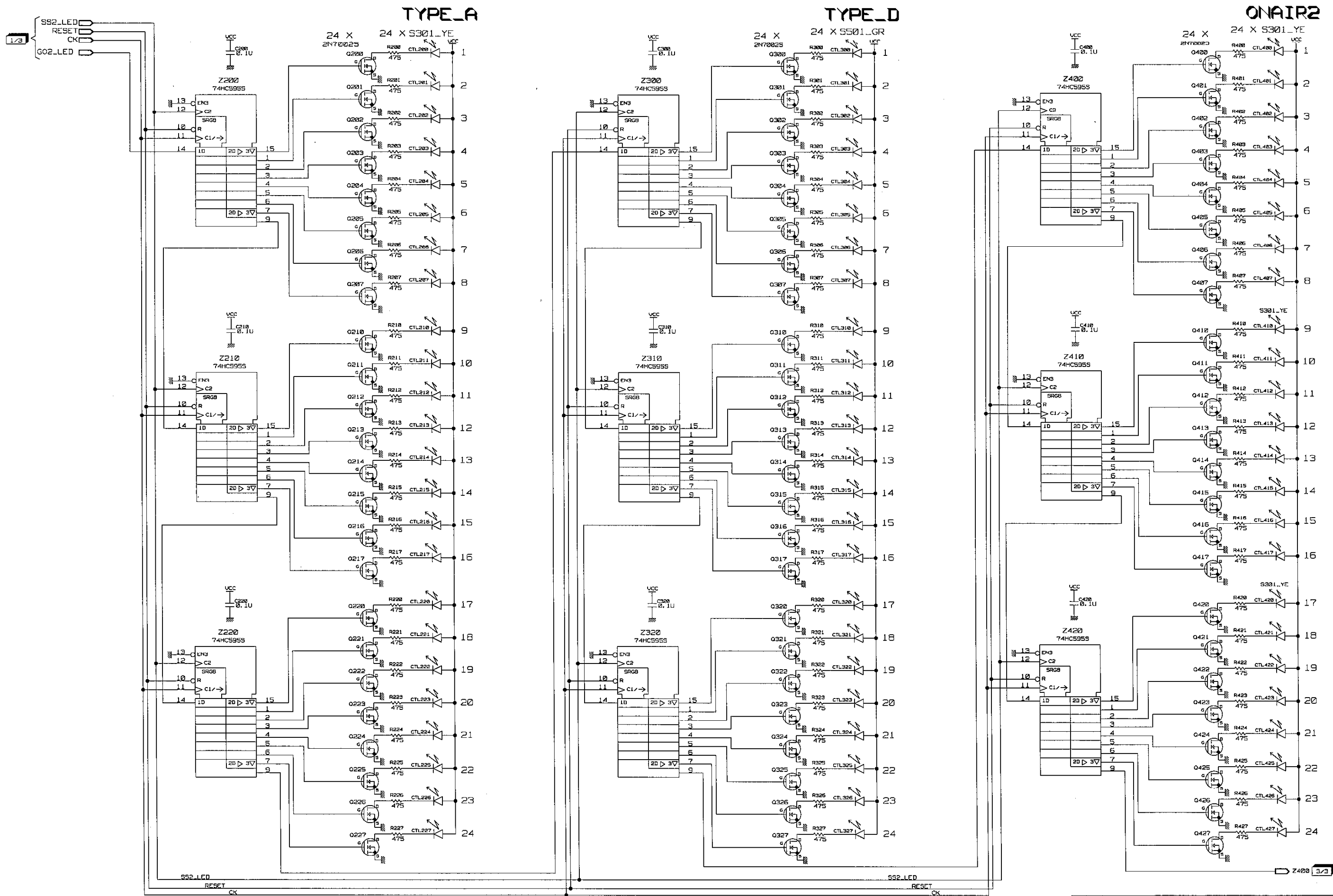
		MSP				
		TITLE MPU BOARD				
05-09-88						
THOMSON BROADCAST		DRAWING No	REV	CODE	SHEET	BLOCK
		48150621	B	030	5/5	



TITLE MPU BOARD					MSP		
THOMSON BROADCAST SYSTEMS			DRAWING No	REV	CODE	SIZE	SHEET
			4A150621	B	046	3	01/01

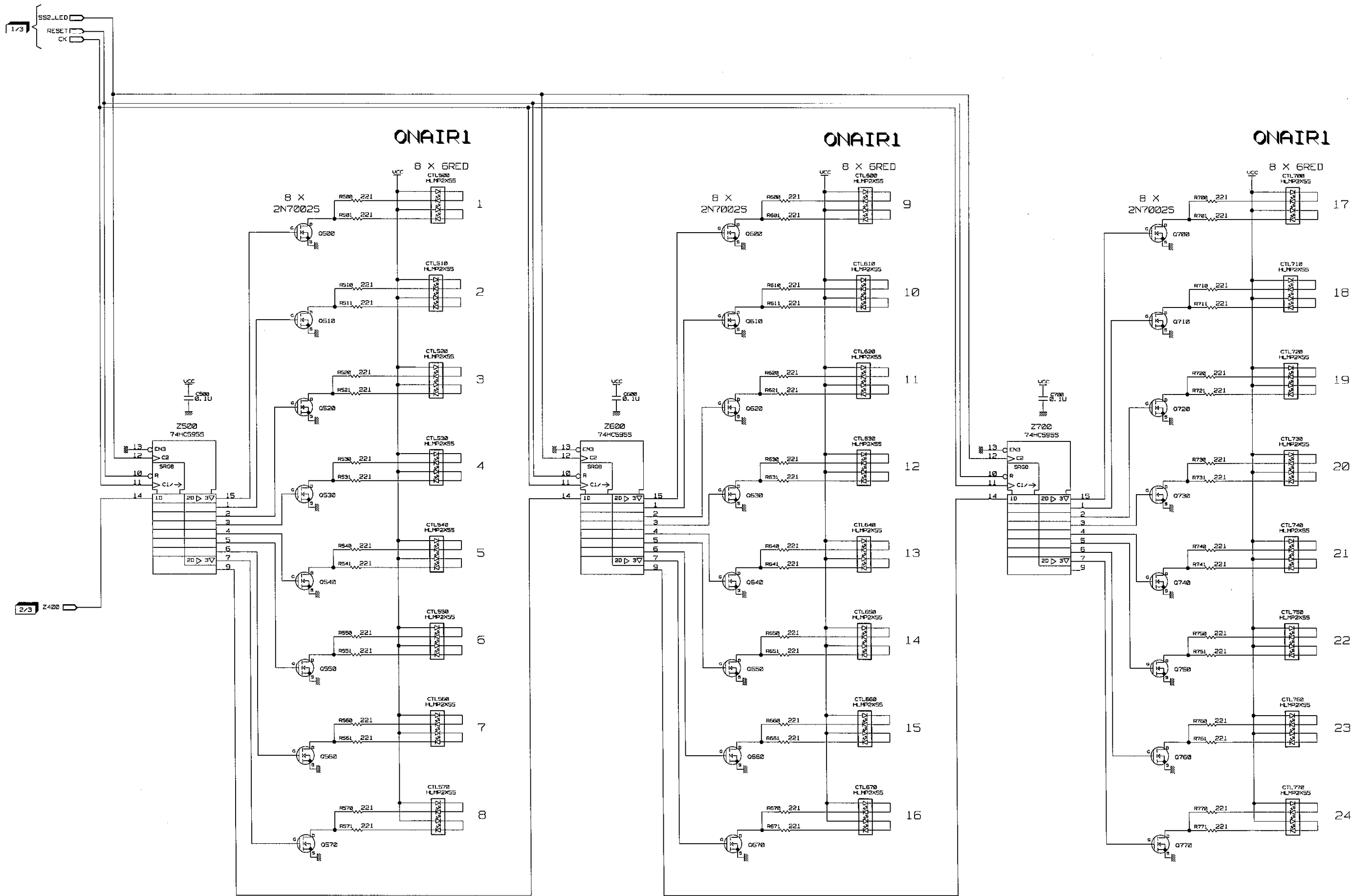
		MSF				
15-09-98		TITLE KEY BOARD				
THOMSON BROADCAST		DRAWING No	REV	CODE	SHEET	BLOCK
		10150632	0	033	1/2	

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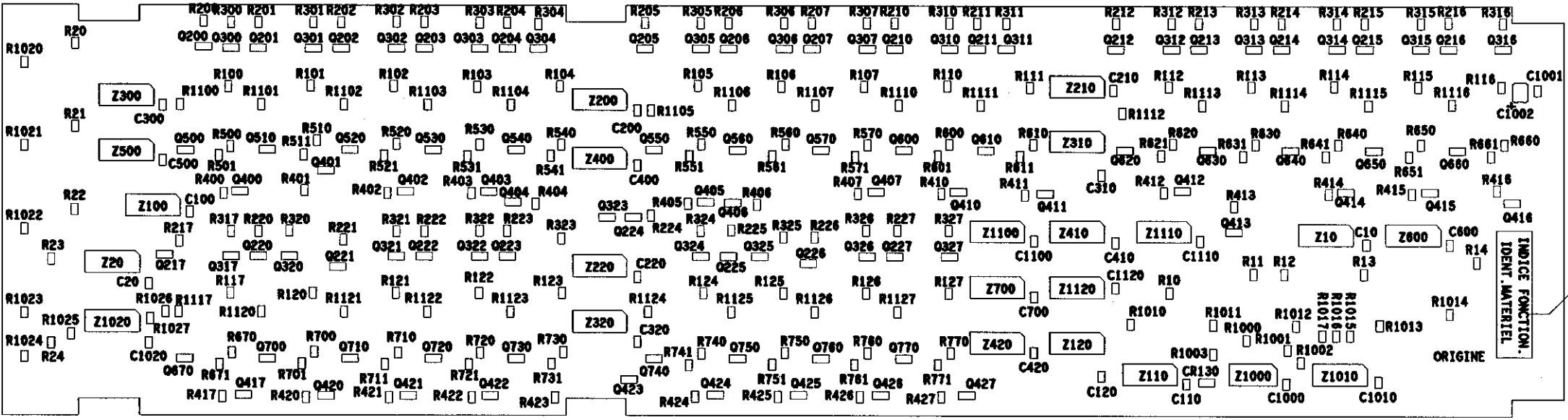
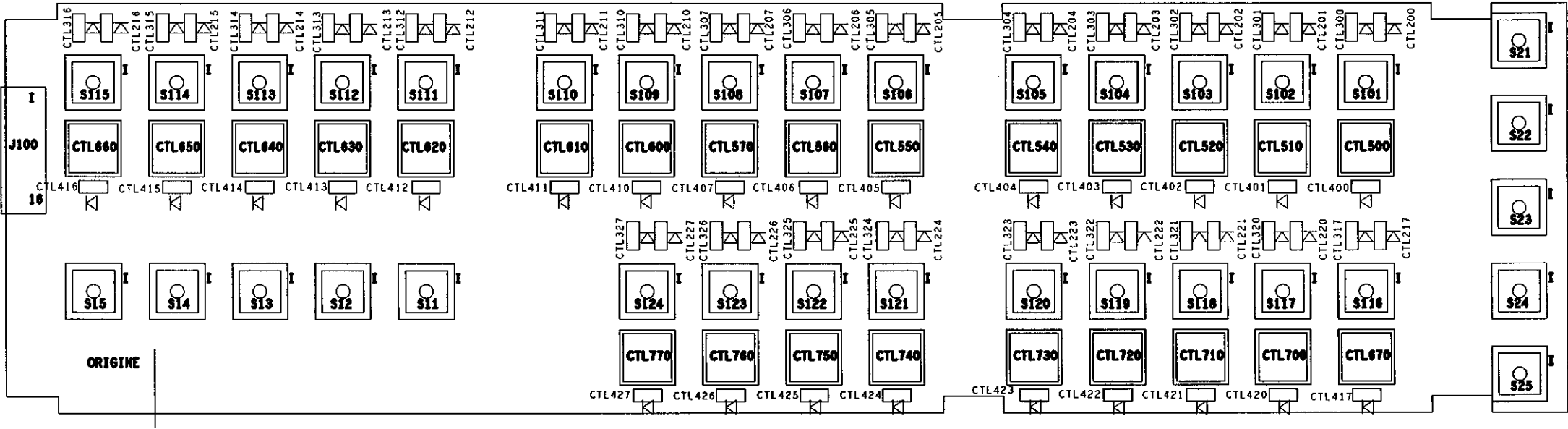
VCC = +5V

15-09-98		MSP			
THOMSON BROADCAST		TITLE			
		KEY BOARD			
		DRAWING No	REV	CODE	SHEET
		4A150622	A	030	2/3
		BLOCK			



VCC = +5V

15-09-98		MSP			
THOMSON BROADCAST		TITLE KEY BOARD			
DRAWING No	REV	CODE	SHEET	BLOCK	
4A150622	A	030	3/3		



TITLE KEY BOARD				MSP		
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		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 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 FTL 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 ECRU 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 ECRU 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	COSS COSSE CLIP ROUGE	J22-16 LARGEUR 6,35	T9004718
COS 02 COS 04	COSS COSSE RONDE ROUGE	J22-16 BORNAGE 4,17	T9004722
COS 01	COSS COSSE F CLIP ROUGE	ISOLEE LANGUET. 6.35X0.8	T9005514
Cables-cordons			
CB 19	CABL CABLE	1CNEC+3FELS V/N/BLC	T9004686
FIL 01	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

CART MPU BOARD MSP -MP

REPERES TOPO								DESIGNATION 1		DESIGNATION 2		COMPOSANT					
Z1000 R1000 R712 R1213 Z100 A Z400 A								R742 R803 R1113		SWIR CIRC ANA DIL T0220		LT1076CT 5 PINS		T1005192			
										REMP RESIST CMS 0603		2.7 KOHMS 5% 1/16W K250		T9000988			
										REMP RESIST CMS 0603		150 OHMS 5% 1/16W K250		T9001034			
										REMP SUPPORT F DRT CMS		PLCC44		T9001122			
										REMP SUPPORT F DRT CMS		PLCC52		T9001123			
Accessoires cablages								BARR BARETTE SECABLE		1X36 MD		91395276					
J2 A TP240 TP1000 TP1004								TP730 TP1002 TP1200		TP800 TP1003		PLMS PLOT CMS		RCT00000C		T1002596	
Alimentations								PILE ACCU 345-0 3V 45MAH				T1002993					
BT1																	
Circuit imprimé nu								CIU MPU BOARD MSP		CDA:XM8-THCE0-D561		2A534675AB					
Z110 Z140 Z750 Z280 Z900 Z260 Z130 Z290 Z660 Z160 Z700 Z800 Z1200								Z720 Z820 Z300 Z670 Z240 Z710 Z810 Z1210		CIMS CIRC ANA CMS S08P		LM311 COMPARETEUR		99129838			
										CIMS CIRC NUM CMS S014P		74HC04 INVERS. SN74HC04D		99137355			
										CIMS CIRC NUM CMS S014P		74HC08D		99137356			
										CIMS CIRC CMS S014		74HCT04 -40+85		99143772			
										CIMS CIRC NUM CMS S018P		MAX242CWN TRANSCEIV		T1005322			
Z260 Z130 Z290 Z660 Z160 Z700 Z800 Z1200								Z300 Z670 Z240 Z710 Z810 Z1210		CIMS CIRC NUM CMS S014P		74ACT00		T9000055			
										CIMS CIRC NUM CMS S014		74ACT32		T9000079			
										CIMS CIRC NUM CMS S014		74ACT74		T9000087			
										CIMS CIRC NUM CMS S016P		74HC367		T9001349			
										CIMS CIRC NUM CMS S014P		74HC125T		T9001569			
Z1200								Z1210		CIMS CIRC NUM CMS S08P		MAX485E DRIVER RS485		T9004906			
Circuits intégrés mémoires CMS								MPMS MICROP CMS PLCC44		SCC68692C1A44		T1001084					
Z350 Z120 Z200 Z400 Z500 Z620 Z270 Z590 Z100 Z310								Z520 Z640 Z320		MPMS MICROP CMS S016P		MAX695EWE		T1002423			
MPMS MICROP CMS QFP132P		MC68302FC16C		T1005168													
MPMS CIRC PROC CMSPLCC52		MC68HC811E2FN		T1005225													
MPMS MICROP CMS S016P		68HC68P1 8BIT		T9000419													
Z310								Z320		MPMS MICROP CMS PLCC28		82C54		T9000854			
										EEMS MEM EEPR CMS S08P		1KX16/2KX8 1MHZ 3MA		T9001604			
										EPMS MEM EPRO CMS PLCC44		256KX16 120NS		T9001714			
										SRMS MEM SRA CMS SOJ32P		128KX8 15NS 170MA		T9003029			
Commuteurs								COML COMMUTEUR LEVIER		DIP 8 Y CDB8L		91691585					
S1																	
Condensateurs								CAPA COND FIXE CAR1015		470 UF 20% 16V		T9001342					
C1002 C1000								CAPA COND FIXE CAR812		47 UF 20% 63V		T9003100					
Condensateurs CMS								C.CH COND CMS CTC3A TANT		1 UF 20% 16V		99142711					
C902 C141 C143 C711 C1111 C320 C204 C100 C140 C202 C270 C311 C500 C590 C700 C800 C1100 C2001								C903 C142 C144 C723 C1211 C901 C110 C160 C203 C280 C321 C520 C600 C710 C810 C1110 C2002		C.CH COND CMS 0603 NP0		22 PF 5% 63V		T9000961			
C.CH COND CMS 0603 NP0		33 PF 5% 63V		T9000962													
C.CH COND CMS 0603 X7R		10 NF 10% 63V		T9001016													
C320 C204 C100 C140 C202 C270 C311 C500 C590 C700 C800 C1100 C2001								C901 C110 C160 C203 C280 C321 C520 C600 C710 C810 C1110 C2002		C.CH COND CMS CTC3B TANT		4,7MF 20% 16V		T9001370			
										C.CH COND CMS CTC3D TANT		68 UF 20% 16V		T9003349			
										C.CH COND CMS 0805 X7R		100 NF 10% 63V		T9004666			
Connecteur								CNEC EMBASE F DRT		SUBD 9 SOUD CI2.4 P2.75		T9003545					
J10 J14 J18 J19 J21 J4 J110								J11 J15 J20 J23 J25		CNEC EMBASE F DRT		SUBD 25 SOUD CI2.4 P2.75		T9003547			
CNEC EMBASE M DRT		SUBD 9 SOUD CI2.4 P2.75		T9003553													
CNMS EMBASE F DRT CMS		REC 2X10 PAS 1.27		T9004547													
CNEC EFC1X16+#P1-ZIF##-M		3-D##		T9004580													
Diodes CMS								LEDS DI0D LED CMS S0T23		LSS260-D0 ROUGE		306024					
CRL1 CRL2 CRL6 CR900 CR120 CR11 CR15 CR1000 CR1001 Z2100								CRL3 CRL7 CRL4 CRL8 CR12 CR16 CR13 CR17 CR14 CR18		LEDS DI0D LED CMS S0T23		LGS260-D0 VERTE		91613459			
DIMS DI0D CMS S0T23		BAV70 [A4]		99123890													
DIMS DI0D CMS S0T23		BAR18 [D76]		99123948													
DIMS DI0D CMS		10MF2		T1002179													
CR1000 CR1001 Z2100								CR12 CR16 CR13 CR17 CR14 CR18		DIMS DI0D CMS		MBRD660CT 60V 6A		T1002443			
										DIMS DI0D CMS S0T223		EZ5Z3-S3.3 5V-3.3V		T1005132			
Divers mécaniques								VROU VERROU A VIS FEMELL		4-40/4-40 L:4,5MM LAITON		T9004234					
J17 A J22 A J25 A J13 A								J18 A J23 A J10 A J14 A		J19 A J24 A J11 A J15 A		J21 A J25 A J12 A J16 A					
Etiquettes								ETIQ *ETIQUETTE 22X6,5MM		3921-3M(IDENTIF) BD:5000		T9004114					
ID																	
Fusibles CMS								FUMS FUSIBLE CMS		SMD030 0.3A		T9004705					
F1																	
Inductances								SELF SELF TSL1110		100 UH 10%		T9003230					
L1000																	
Oscillateurs								OCMS OSCIL. CMS CSACS8T		Resonateur MOS 8 mh		T1002473					
Y3 Y2 Y1								QRTZ QUARTZ HC49S QRTZ QUARTZ HC49US		47.3729MHZ 50PPM BP 16MHZ 50PPM 16PF		T9000410 T9001471					
Résistances CMS-Potentiomètres CMS								RESC RESIST CMS 0805		2 KOHMS 1% 1/10W K100		162202					
R1003 R1001 R1002 R101 R310								R201 R320		R208 R620		R300 R621		162302 162391 T9000877			
R1003 R1001 R1002 R101 R310								R201 R320		RESC RESIST CMS 0805		3.01 KOHMS 1% 1/10W K100		162302			
										RESC RESIST CMS 0805		392 OHMS 1% 1/10W K100		162391			
										RESC RESIST CMS 0805		0 OHM 1/16W K250		T9000877			
										RESC RESIST CMS 0603							

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 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 RESC RESIST CMS 0603 47,5KO 1% 1/10W K100		T9005175 T9005188			
R	219	R	220	R	221	R	222						
R	223	R	224	R	240	R	241	RESC RESIST CMS 0603 75 KO 1% 1/10W K100 RESC RESIST CMS 0603 1 MO 1% 1/10W K100		T9005193 T9005212			
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												
R	140	R	142	R	400	R	715						
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										
Z 1020										
Commutateurs								TBP TOUCHE BOUTON POUSS COMP COMMUT. A POUSSOIR	TZ-0004 GRIS UNI. PT/PR CI JAUNE	91586666 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		

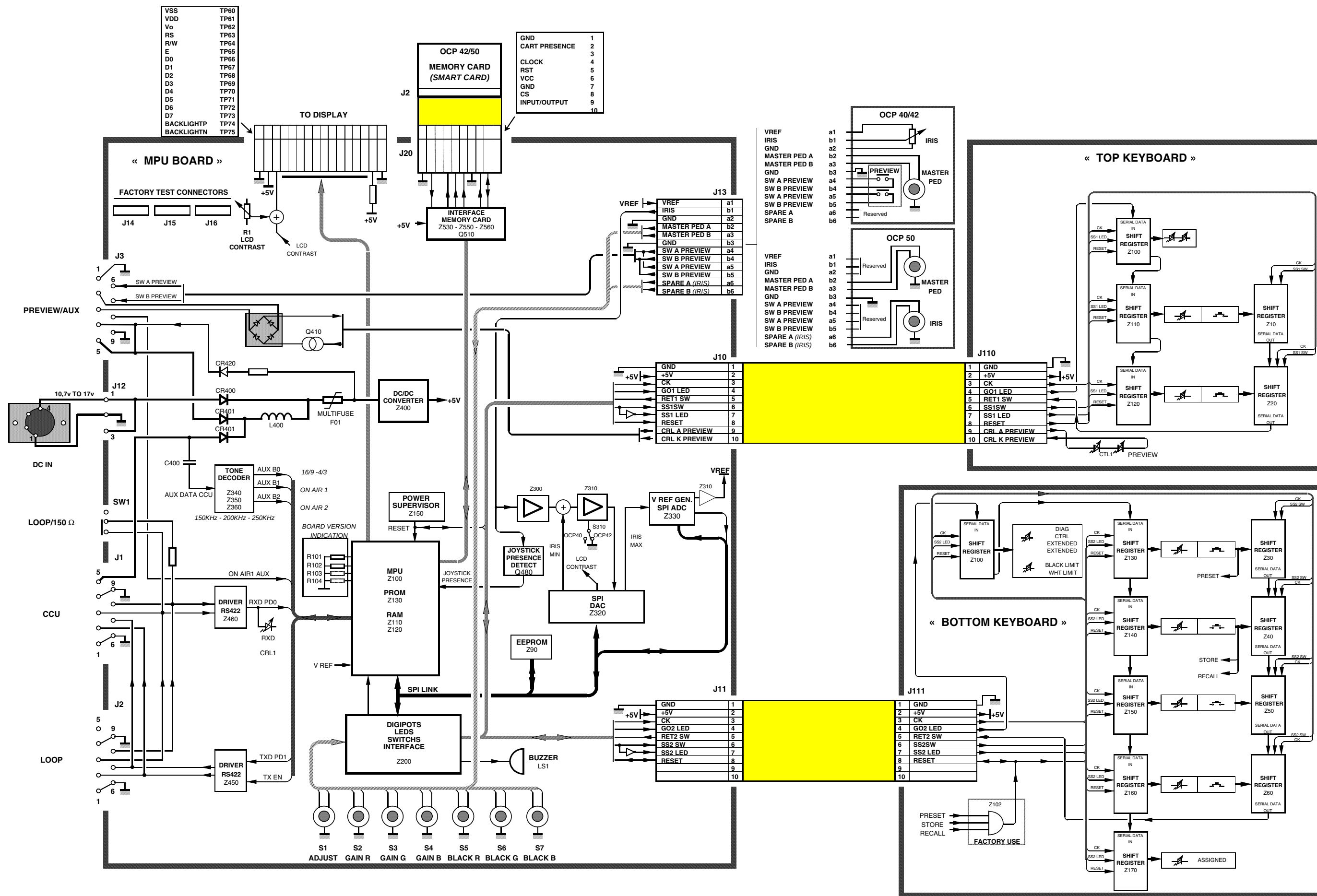
Chapter 2

OCP 50

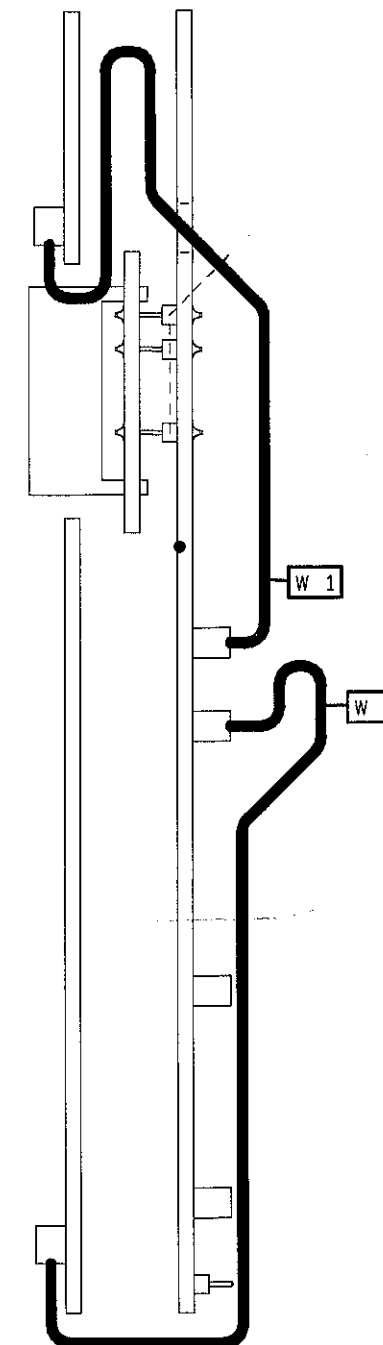
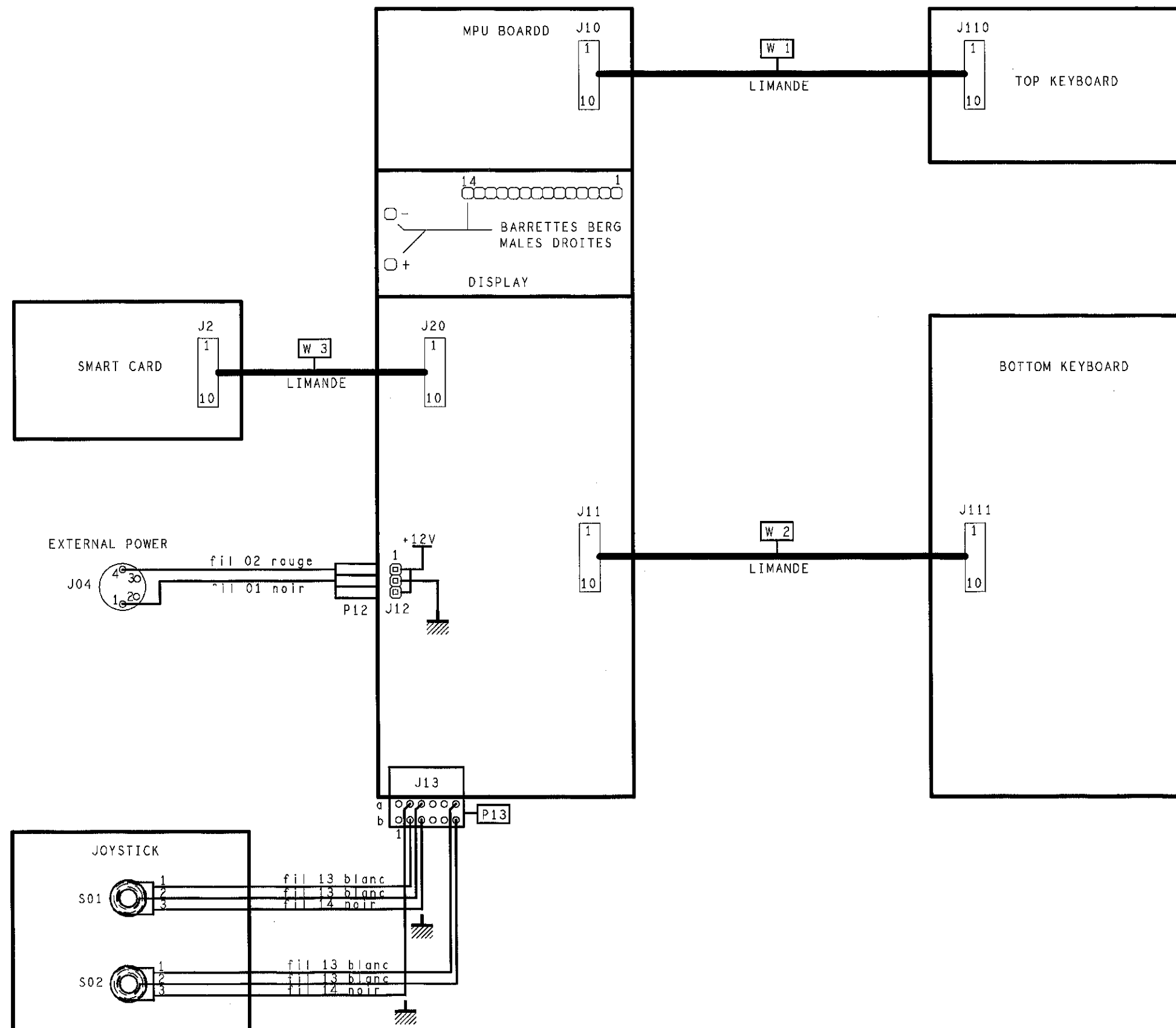
OCP50			B1500509AA
	Schematic	Layout	Part list
BLOCK DIAGRAM	BD0 1/1		
INTERCONNECTION	47232227/B-050		47232227AA
ASSEMBLED OCP50	47232227/F-040		47232227AA
TOP KEY BOARD	4A150344/A-030	4A150344/A-046	4A150344
BOTTOM KEY BOARD	4B150345/A-030	4B150345/A-046	4B150345AB
MPU BOARD	4C150343/F-030	4C150343/A-046	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	RACCORDMENT 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 OCF 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 OCF40/50		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 OCF50		1,0		EA
.2	47232541AC	01	M	X		PROG Z 130		1,0		EA
1	configpv		M			---- CONFIGURATION PRISE UE		1,0		EA

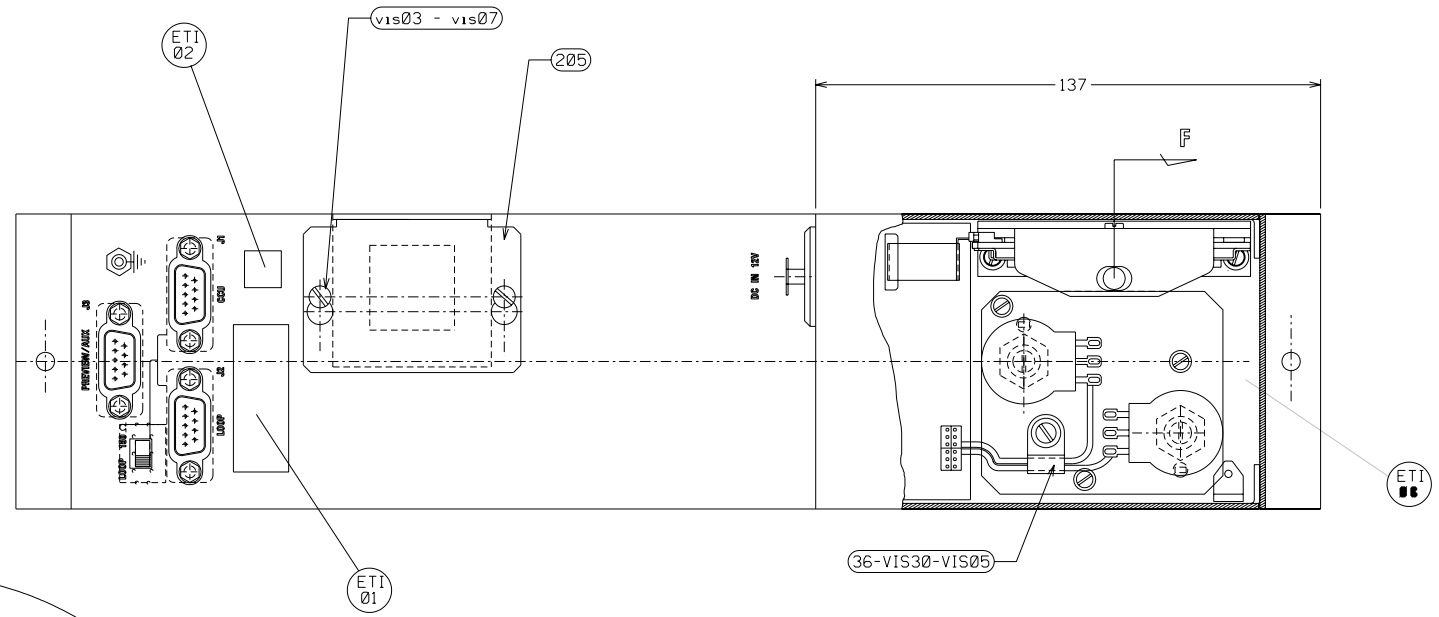
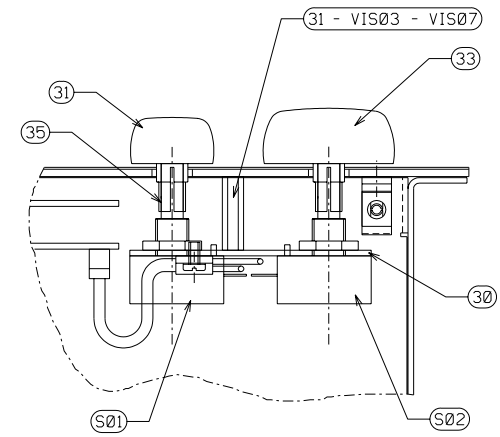


OCP 42/OCP 50
BLOCK-DIAGRAM

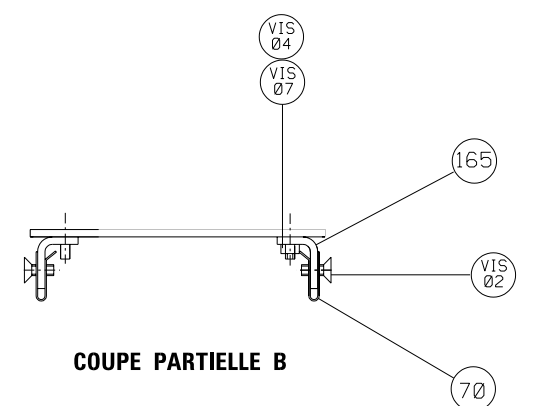
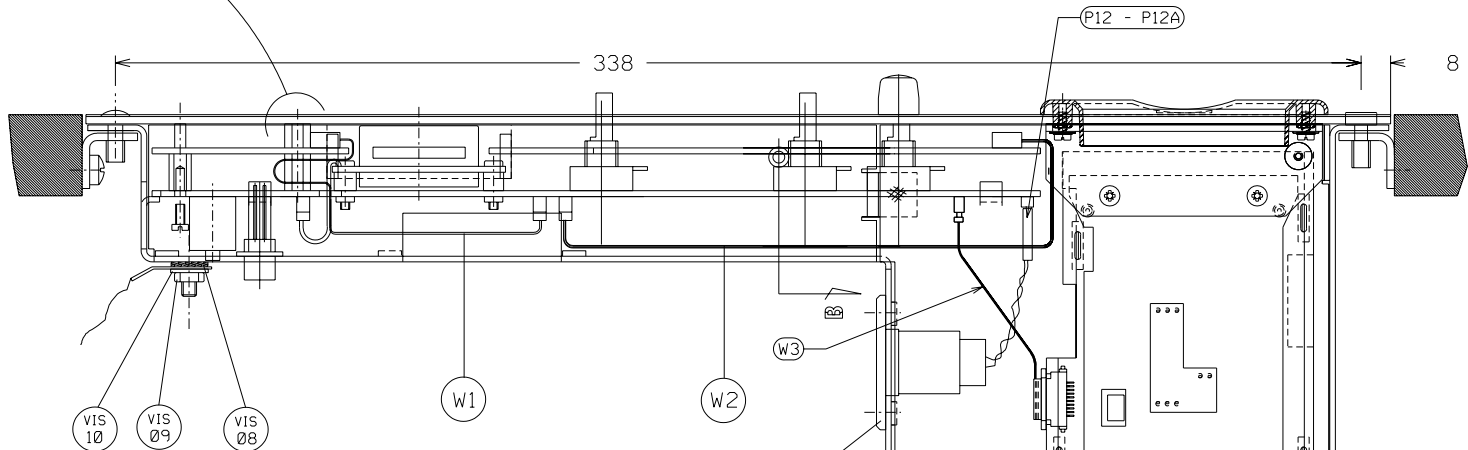
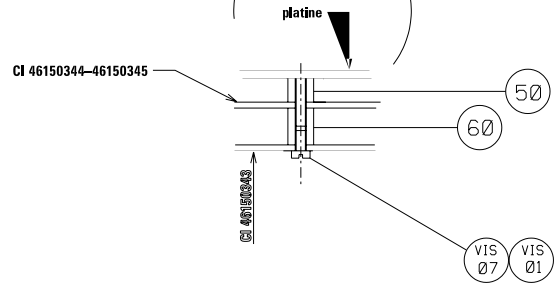
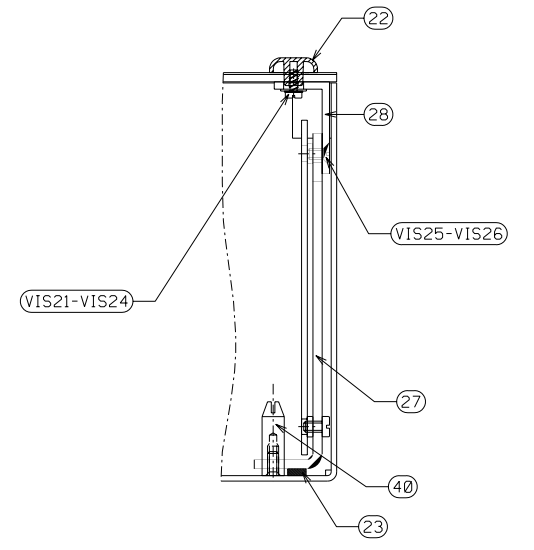


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INTERCONNECTION		DRAWING No	REV	CODE	SIZE	SHEET
THOMSON BROADCAST SYSTEMS		47232227	B	050	3	01/01

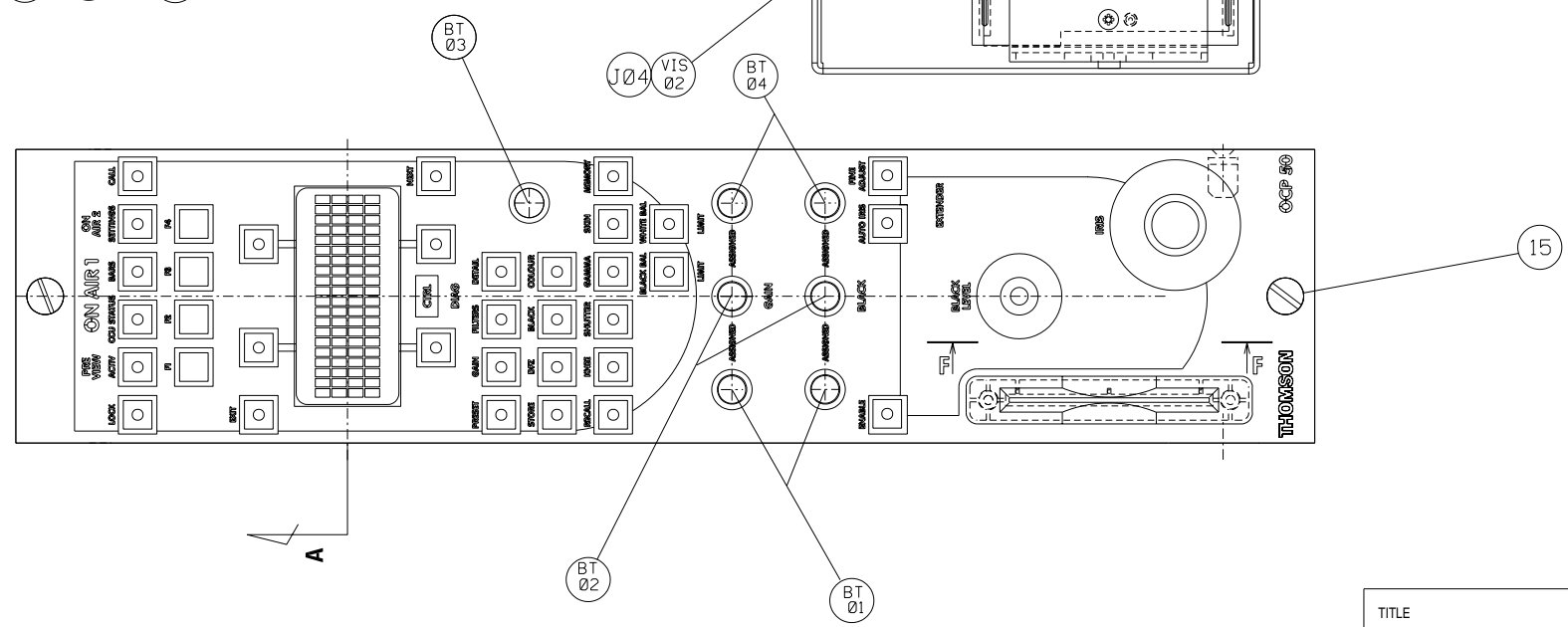
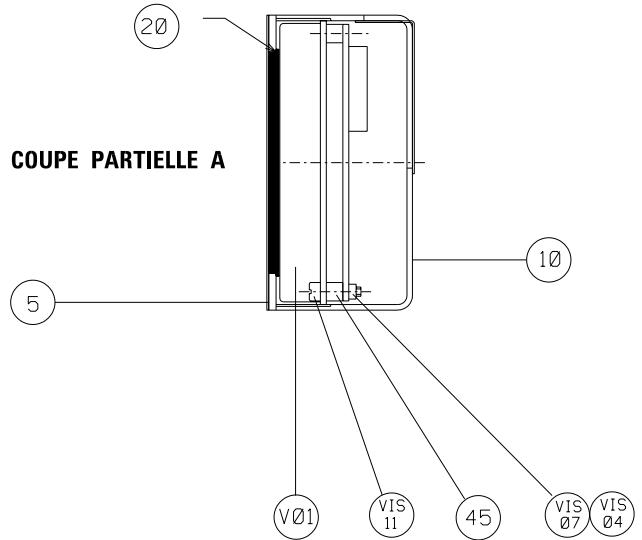
VUE SUIVANT FF



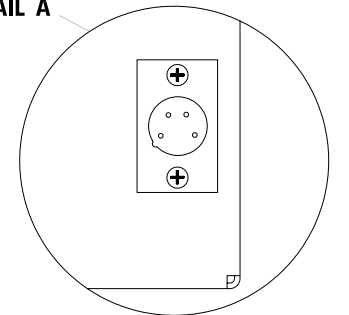
COUPE PARTIELLE F



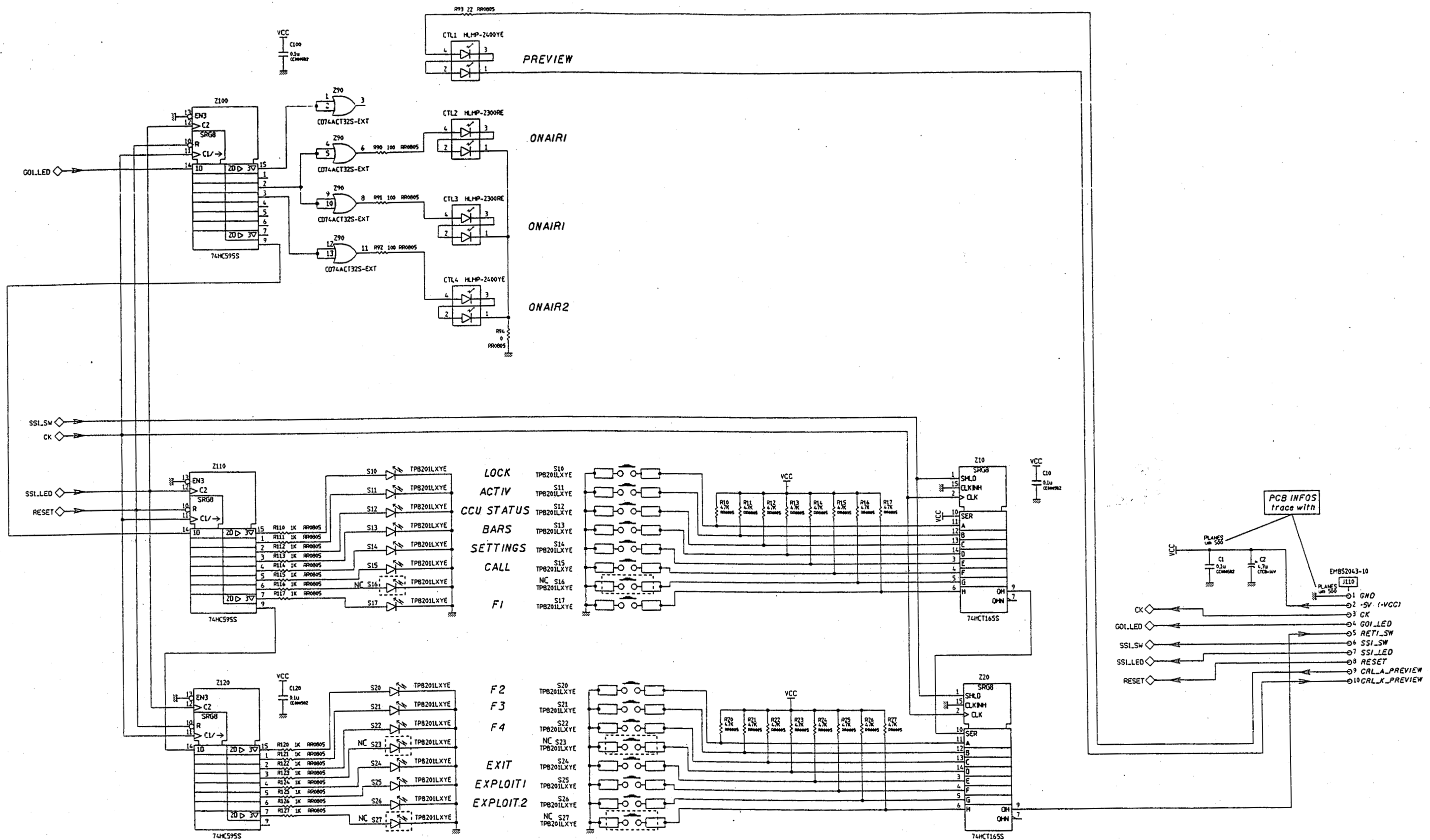
COUPE PARTIELLE B



DETAIL A



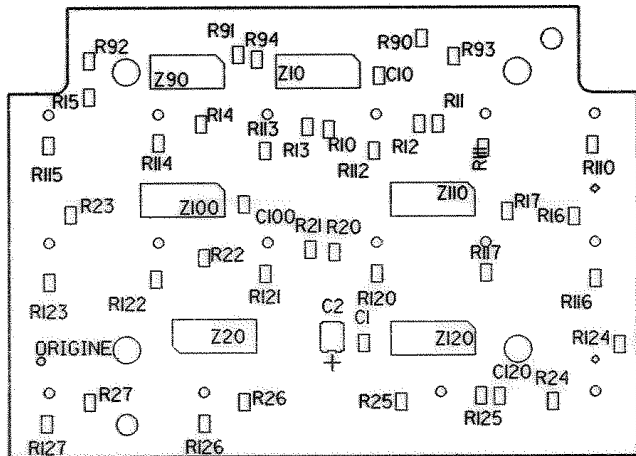
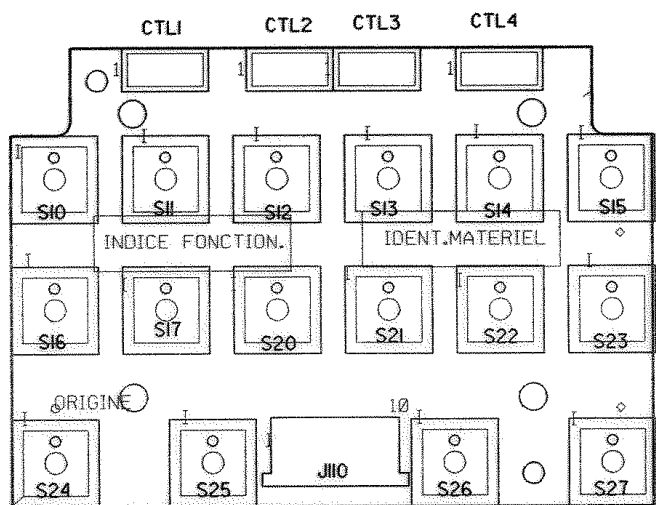
TITLE		OCP50				
		ASSEMBLED OCP50				
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		47232227	F	040	1	01/01



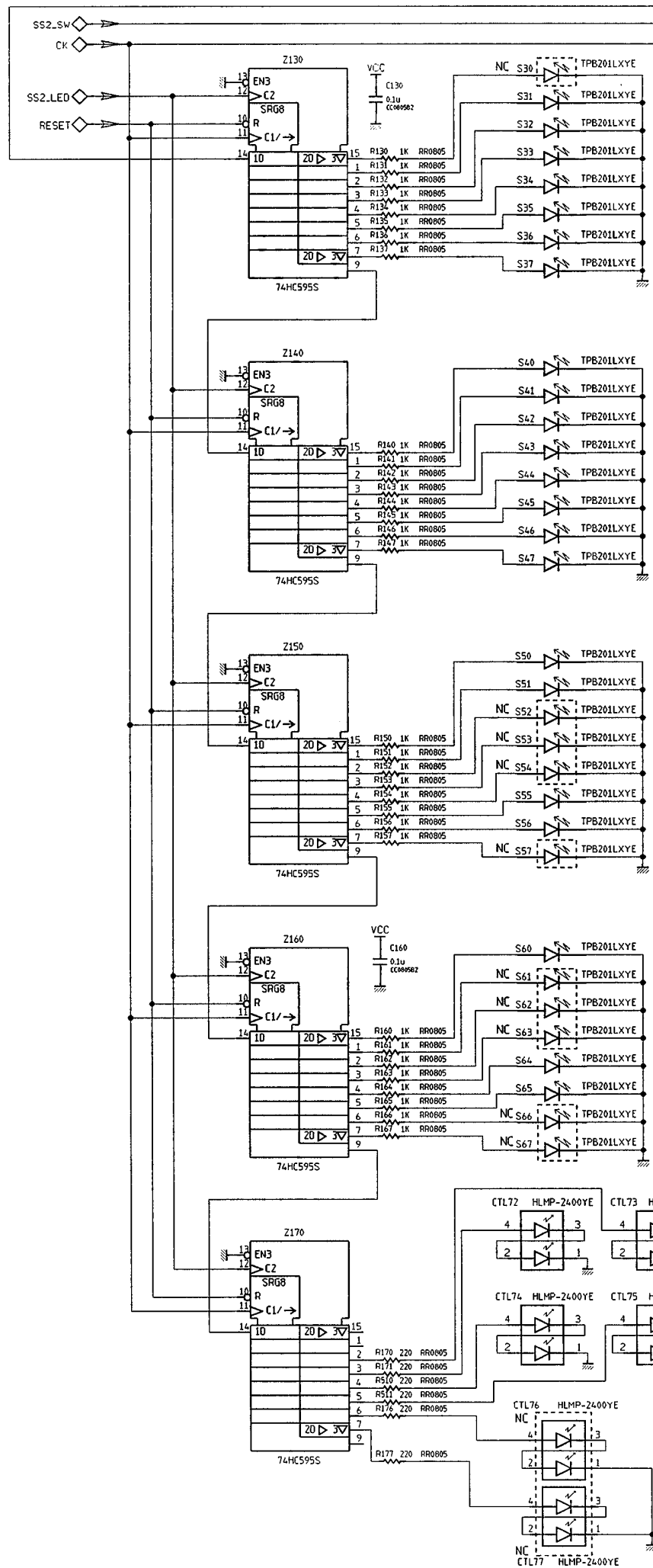
SAPHIR

OCP40

TITLE			
TOP KEY BOARD			
DRAWING No	REV	CODE	SHEET/BLOCK
4A150344	A		01-01



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



EXPLOIT3
EXPLOIT4
NEXT
PRESET
GAIN
FILTERS
DETAIL

STORE
DFZ
BLACK
COLOUR
RECALL
KNEE
SHUTTER
GAMMA

SKIN
OTHERS

BLACK BAL
WHT BAL

ENABLE

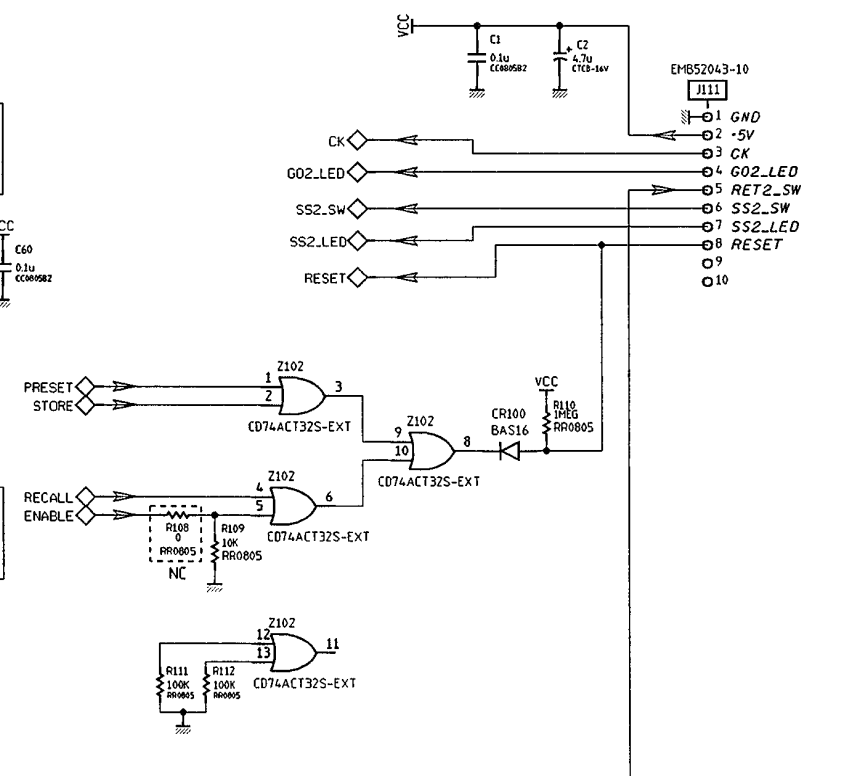
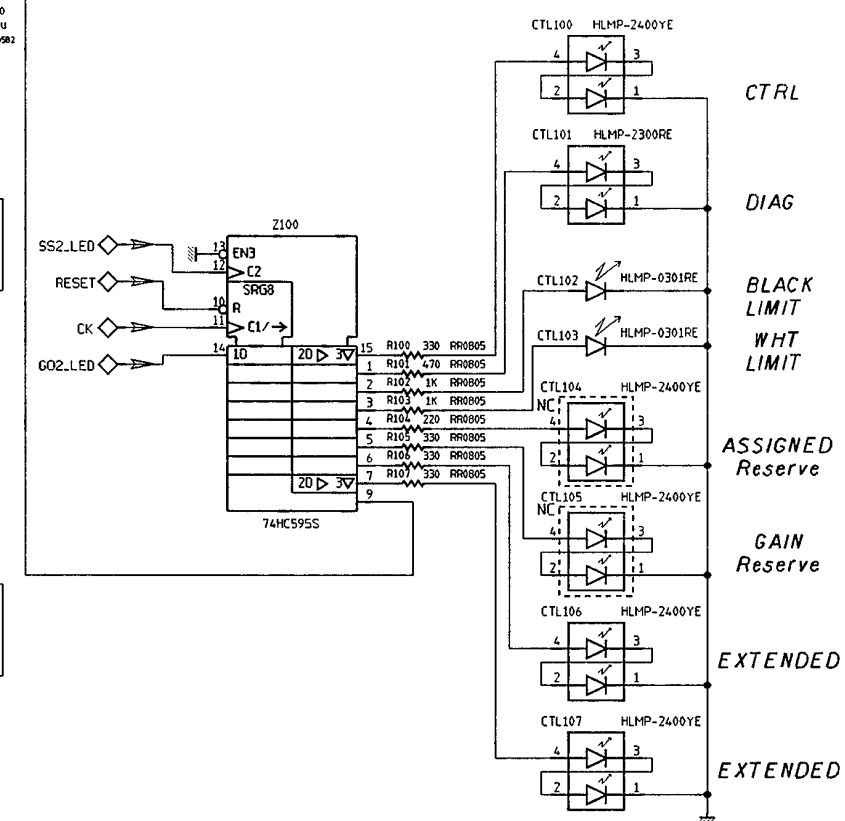
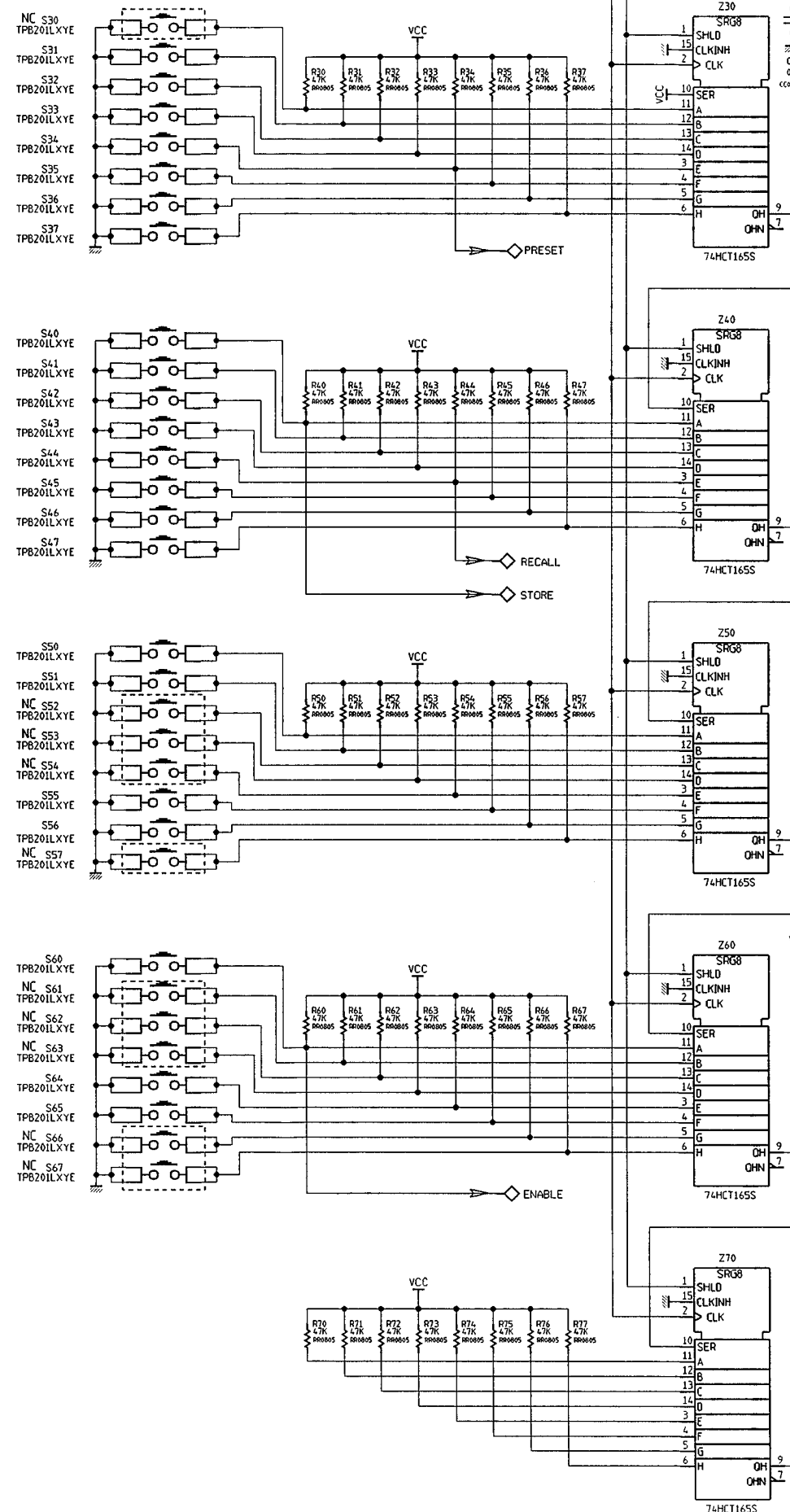
AUTO IRIS
FINE ADJUST

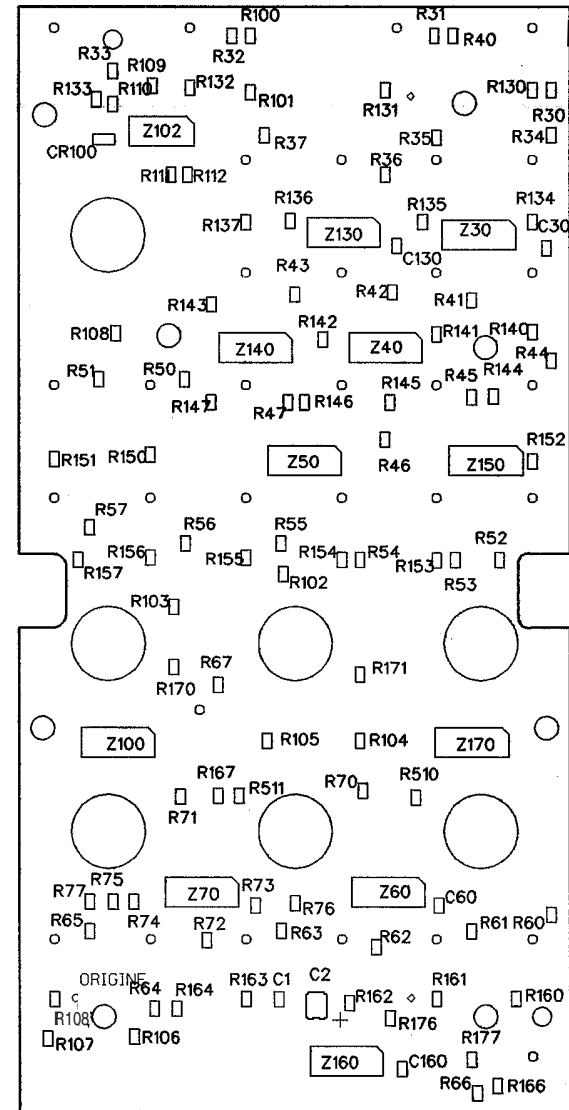
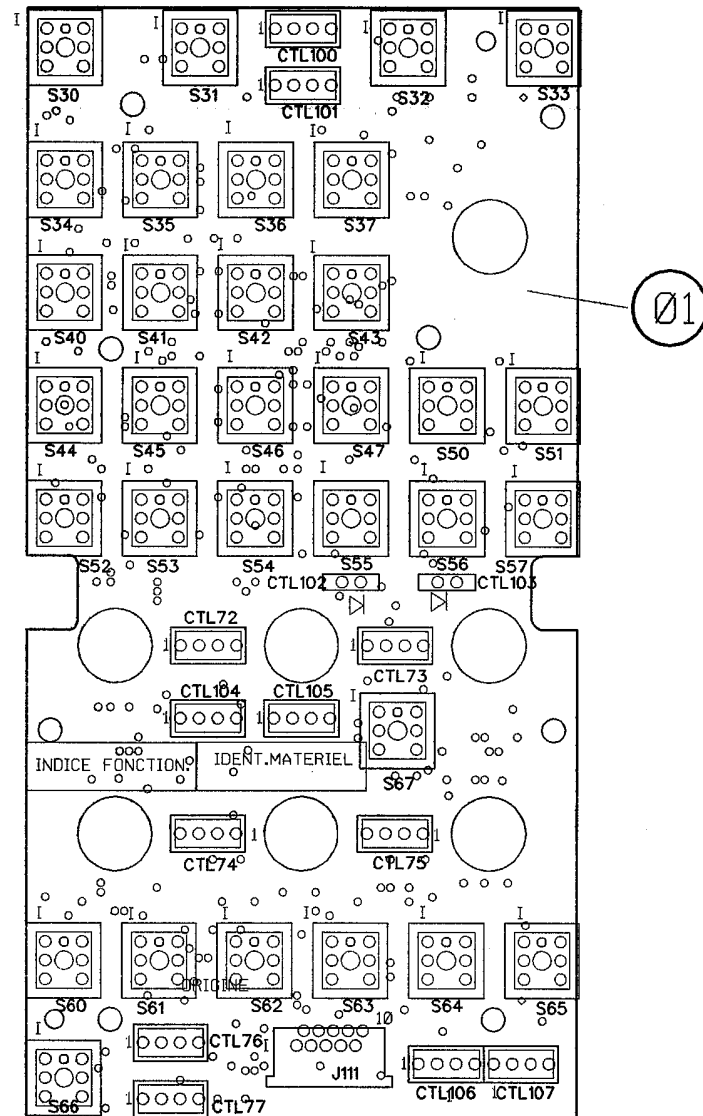
GAIN
SSIGNED

BLACK
ASSIGNED

Reserve

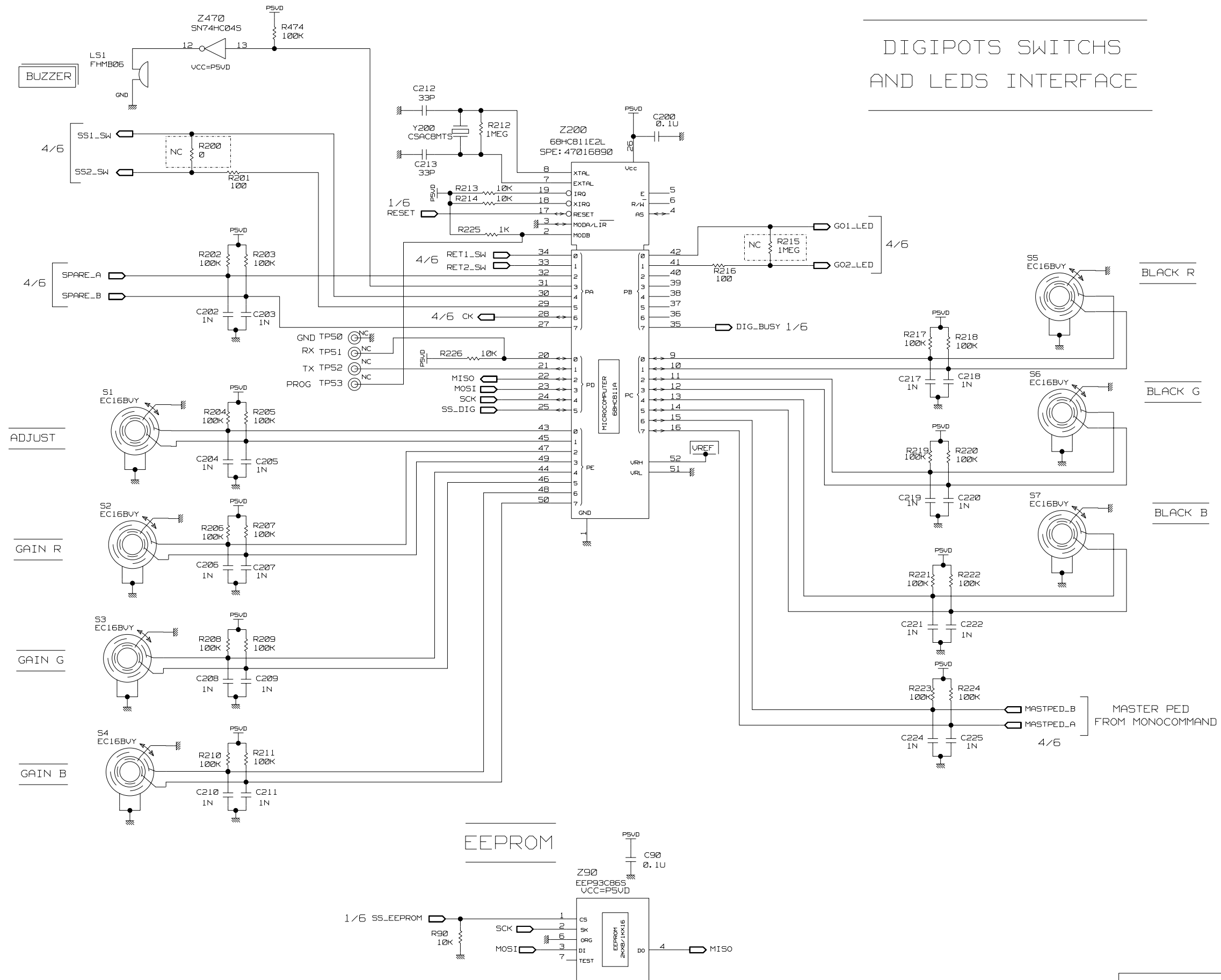
Reserve





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





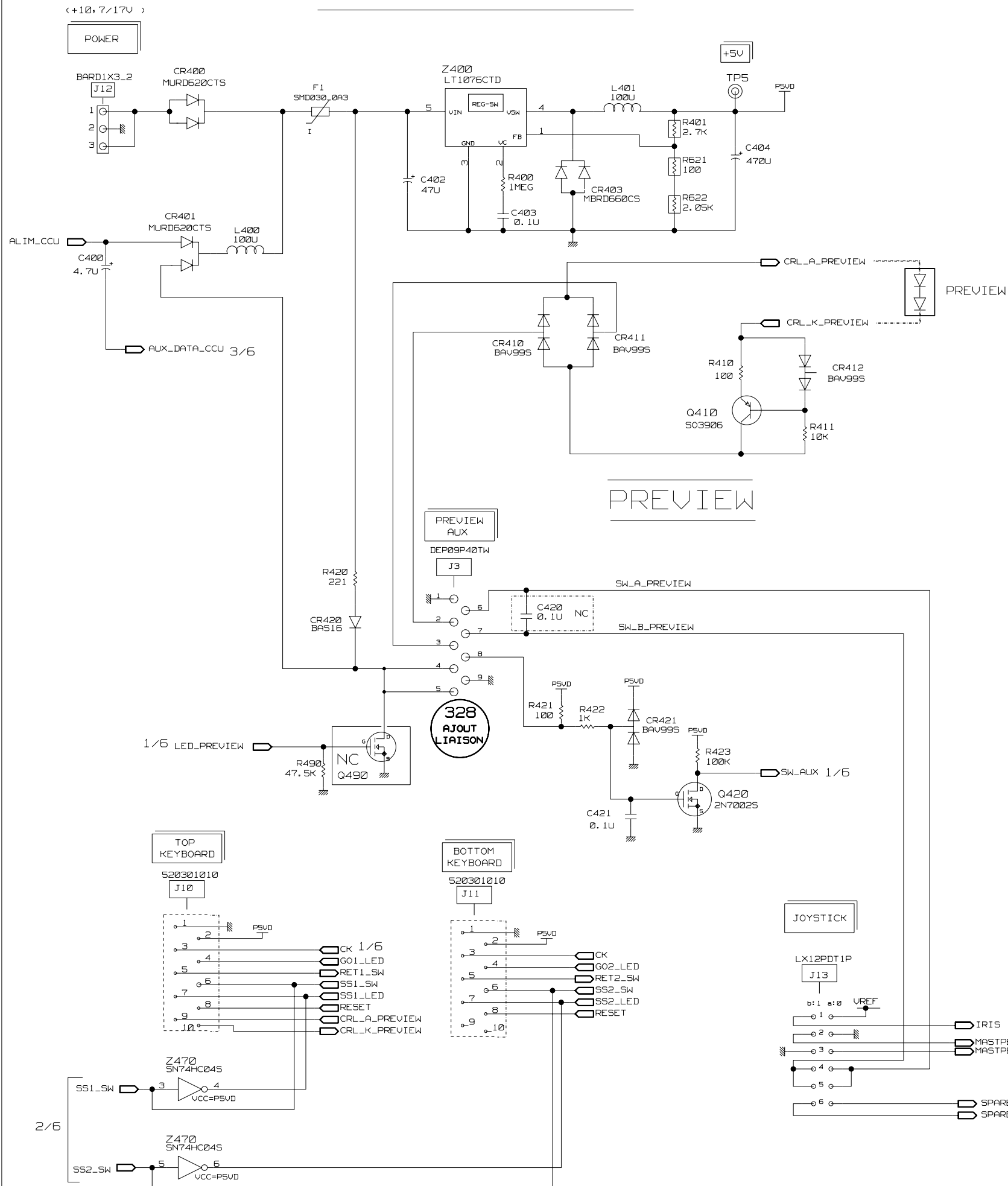
DIGIPOTS SWITCHS AND LEDS INTERFACE

OCP50					
TITLE		MPU BOARD			
24-6-98	DRAWING No	REV	CODE	SHEET	BLOCK
THOMSON BROADCAST	4C150343	A	030	2/6	

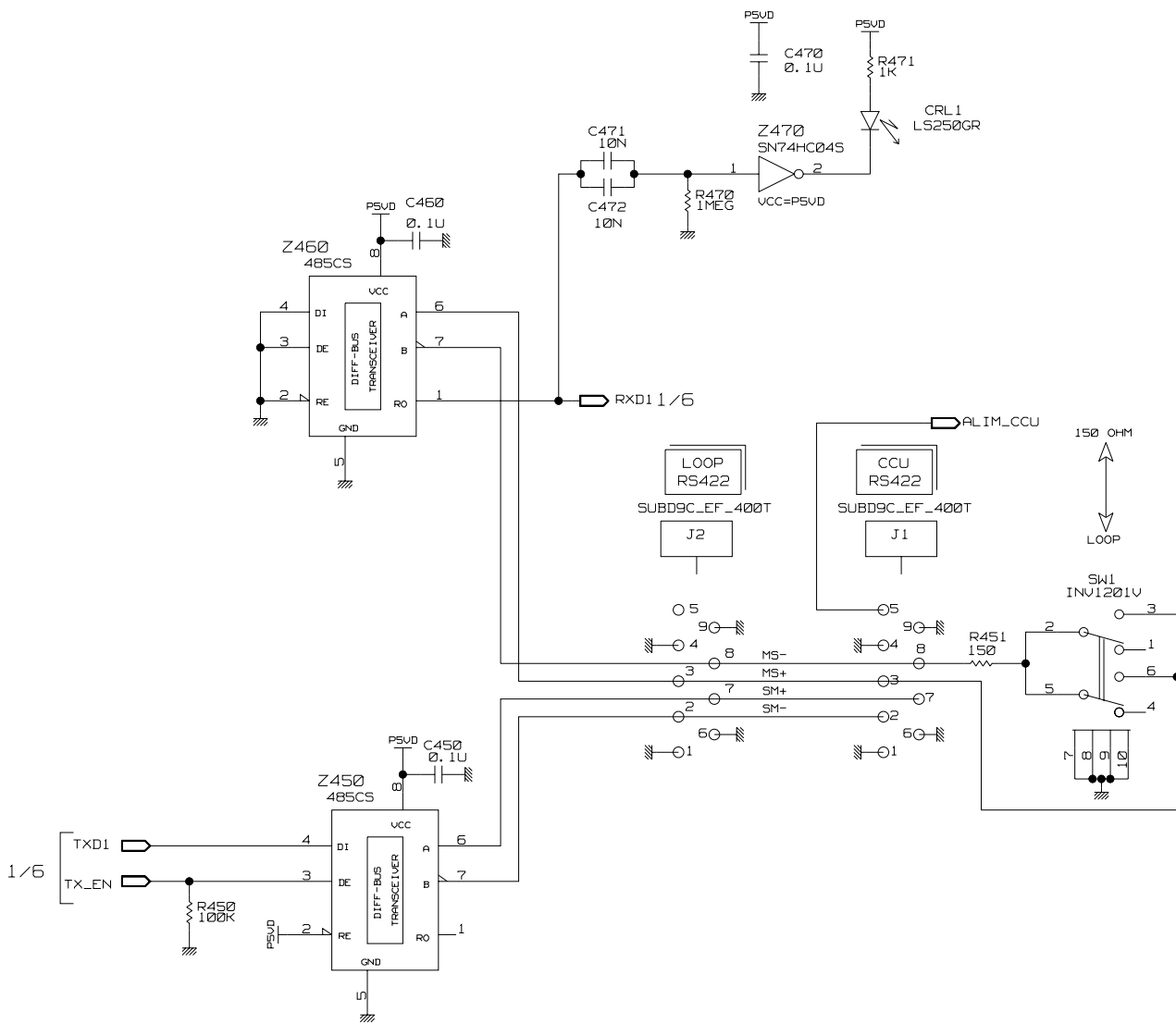


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DC/DC CONVERTER



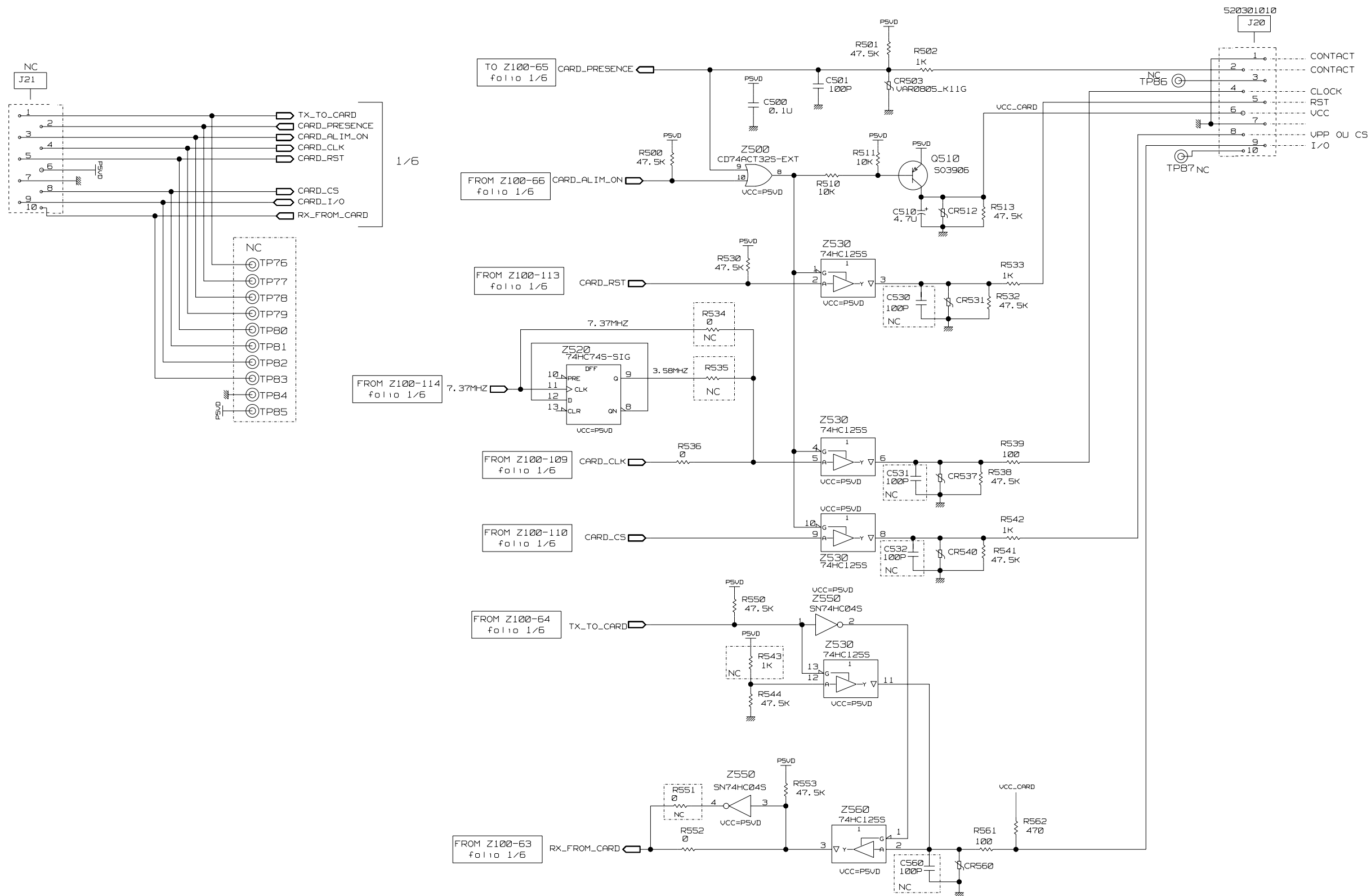
SERIAL LINK



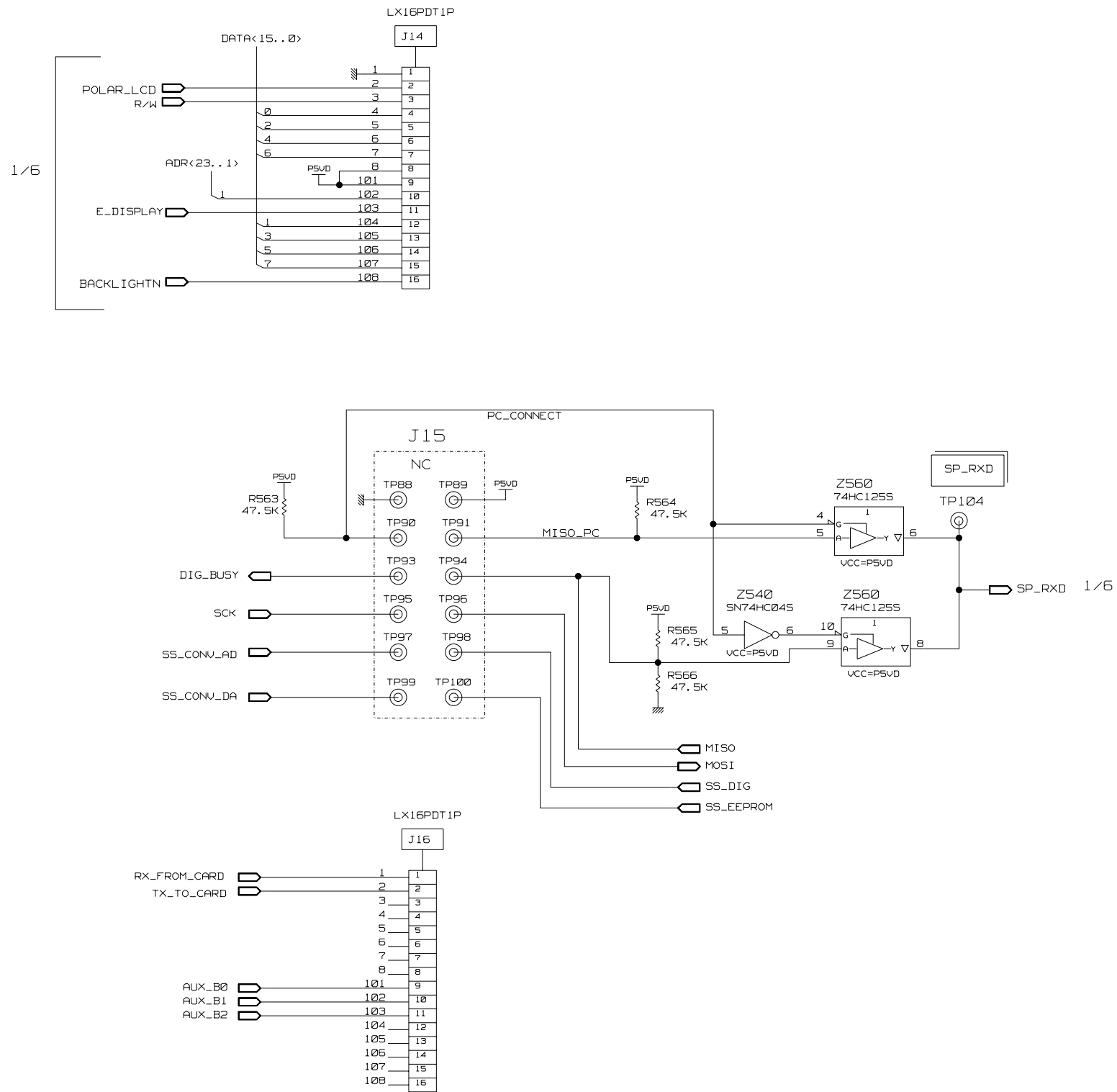
Conforme a l'archivage en ligne

OCP50					
1-1-1		TITLE			
		MPU BOARD			
THOMSON BROADCAST		DRAWING No	REV	CODE	SHEET
		4C150343	C	030	4/6
		BLOCK			

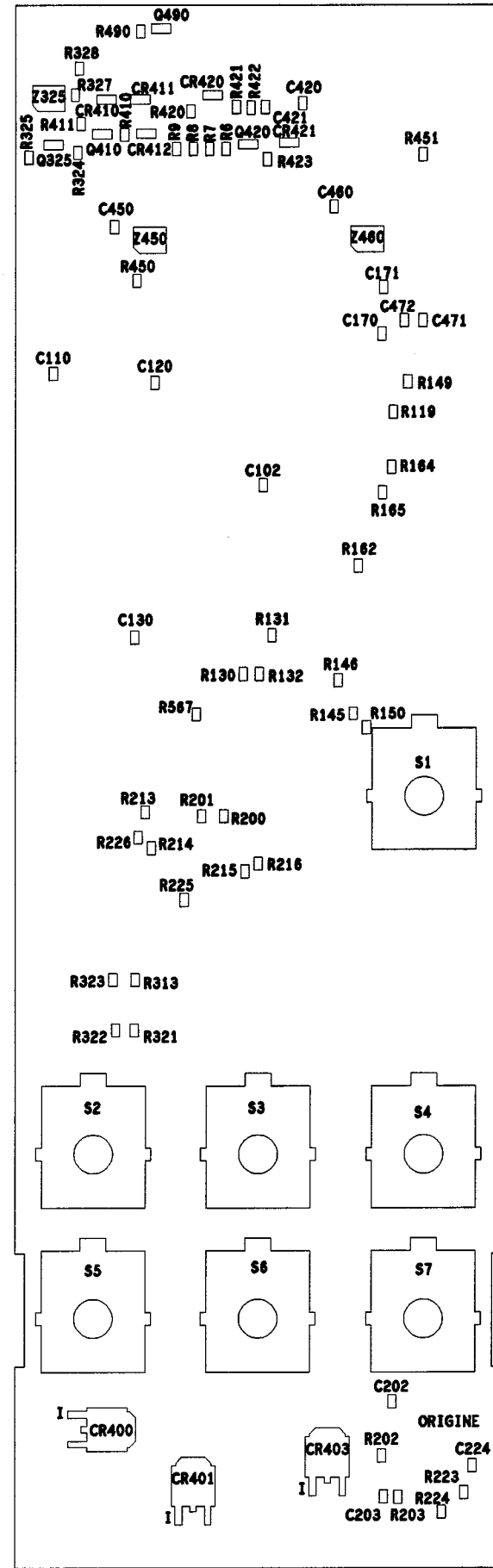
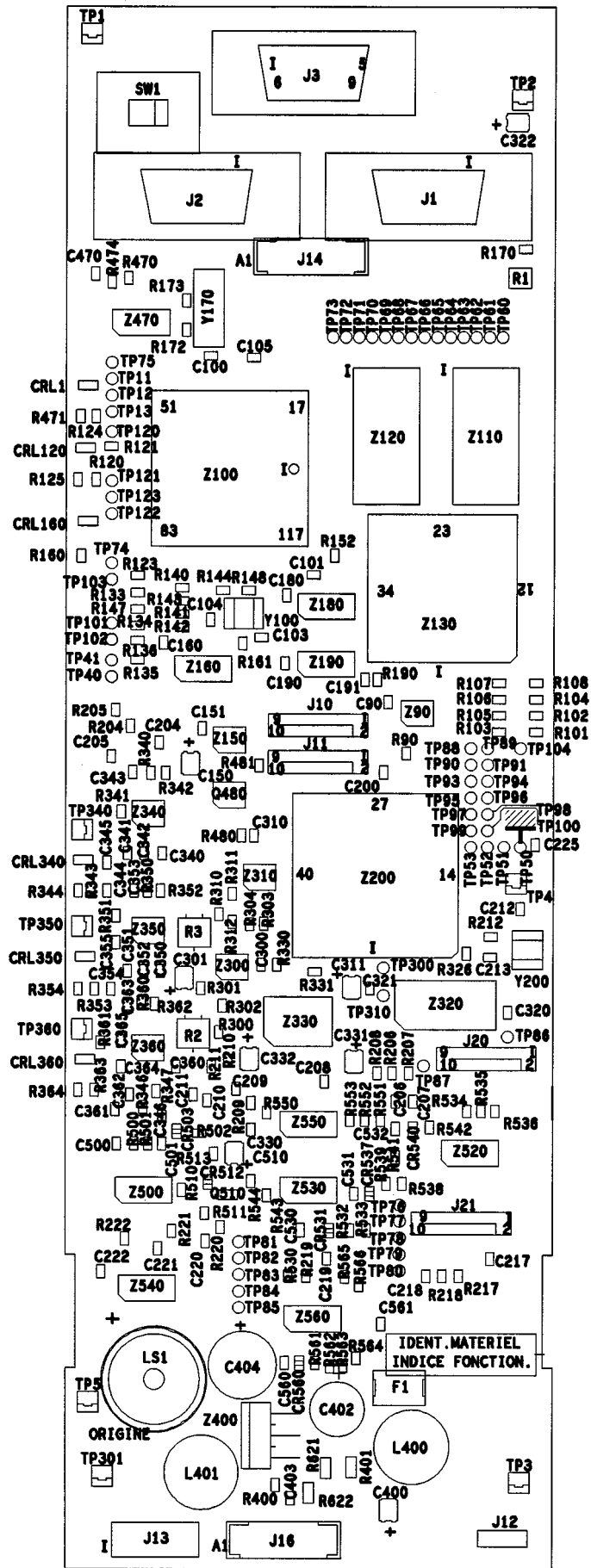
INTERFACE SMART CARD



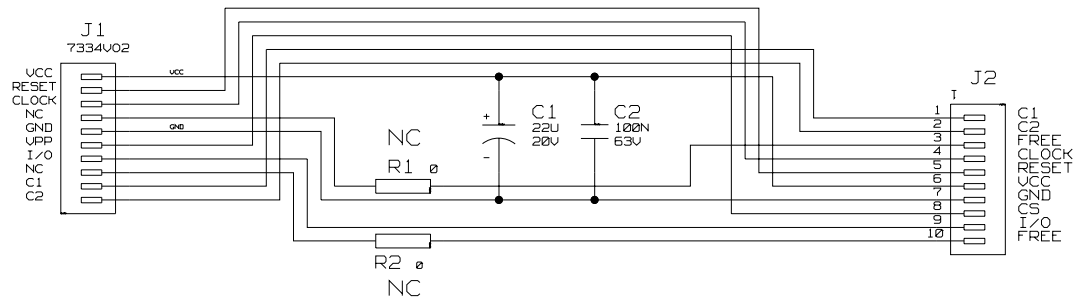
TEST I/O



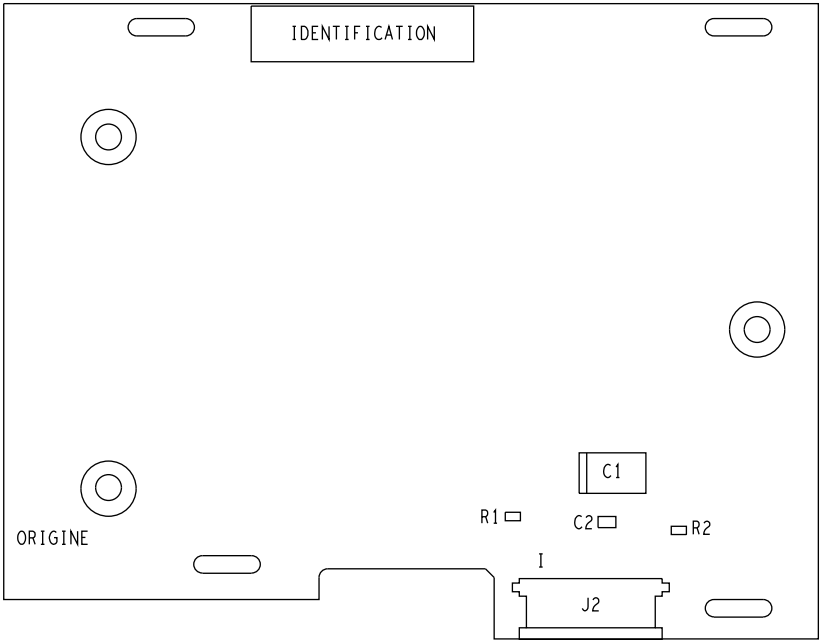
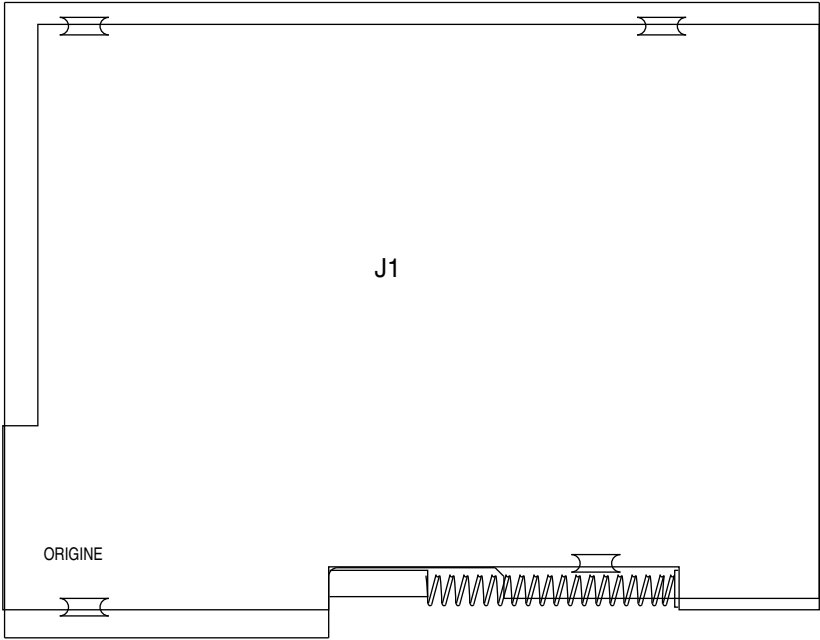
OCP50					
		TITLE			
		MPU BOARD			
1-1-1	DRAWING No	REV	CODE	SHEET	BLOCK
THOMSON BROADCAST	4C150343	A	030	6/6	



TITLE		OCP42/OCP50				
		MPU BOARD				
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		4C150343	A	046	3	01/01



TITLE					OCP50	
SMARTCARD						
THOMSON BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET	
	46150624AB	A	030	3	01 / 01	



TITLE				OCP42/OCP50		
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 NX0	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	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	LBAR DIOD LED BAR	HLMP 2300 ROUGE	91502834
CTL 1 CTL 4	LBAR DIOD LED BAR	HLMP 2400 JAUNE	91522293
IM	REMP ETIQUETTE	DAT-50-652-10	91623311
R 93	REMP RESIST CMS 0805	22 OHMS 5% 1/10W K250	99180486
Circuit imprimé nu			
	CIU ***TOP KEY BOARD OC	CDA:XG5-THCE0-6951	2A534552/01
Circuits intégrés CMS			
Z 90	CIMS CIRC NUM CMS S014	74ACT32	T9000079
Z 10	CIMS CIRC NUM CMS S016P	74HCT165T	T9000852
Z 100	CIMS CIRC NUM CMS S016P	74HC595M	T9000929
Commutateurs			
	TBP TOUCHE BOUTON POUSS	TZ-0004 GRIS	91586666
	COMP COMMUT. A POUSSOIR	UNI. PT/PR CI JAUNE	T1000664
Condensateurs CMS			
C 2	C.CH COND CMS CTC3B TANT	4,7MF 20% 16V	T9001370
C 1	C.CH COND CMS 0805 X7R	100 NF 10% 63V	T9004666
Connecteur			
J 110	CNEC EMBASE F COUD	FFC 1X10 CI2.4	T1005193
Résistances CMS-Potentiomètres CMS			
R 110	RESC RESIST CMS 0805	1 KOHM 1% 1/10W K100	162102
R 114			
R 120			
R 124			
R 94			
R 90	RESC RESIST CMS 0805	0 OHM	99180514
R 10	RESC RESIST CMS 0805	100 OHMS 1% 1/10W K100	T9003993
R 14	RESC RESIST CMS 0805	47.5 KOHMS 1% 1/10W K100	T9004023
R 20			
R 24			
Support			
	SULD TZ2004 CADRE		91627404

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															
Z 102						CIMS CIRC NUM CMS S014				74ACT32				T9000079	
Z 30						CIMS CIRC NUM CMS S016P				74HCT165T				T9000852	
Z 70						CIMS CIRC NUM CMS S016P				74HC595M				T9000929	
Z 100															
Z 160															
Condensateurs CMS															
C 2						C.CH COND CMS CTC3B TANT				4,7MF 20% 16V				T9001370	
C 1						C.CH COND CMS 0805 X7R				100 NF 10% 63V				T9004666	
C 160															
Connecteur															
J 111						CNEC EMBASE F COUD				FFC 1X10 CI2.4				T1005193	
Diodes CMS															
CR 100						DIMS DIOD CMS SOT23				BAS16 [A6]				99110304	
Etiquettes															
IM						ETIQ *ETIQUETTE 22X6,5MM				3921-3M(IDENTIF) BD:5000				T9004114	
Résistances CMS-Potentiomètres CMS															
R 102						R 103				R 130				R 131	
R 132						R 133				R 134				R 135	
R 136						R 137				R 140				R 141	
R 142						R 143				R 144				R 145	
R 146						R 147				R 150				R 151	
R 152						R 153				R 154				R 155	
R 156						R 157				R 160				R 161	
R 162						R 163				R 164				R 165	
R 166						R 167									
R 109										RESC RESIST CMS 0805				10 KOHM 1% 1/10W K100	
R 100						R 105				R 106				R 107	
R 101										RESC RESIST CMS 0805				332 OHMS 1% 1/10W K100	
R 111						R 112				RESC RESIST CMS 0805				470 OHMS 1% 1/10W K100	
R 104						R 170				R 171				R 176	
R 177						R 510				R 511					
R 110										RESC RESIST CMS 0805				1 MOHM 1% 1/10W K1	
R 30						R 31				R 32				R 33	
R 34						R 35				R 36				R 37	
R 40						R 41				R 42				R 43	
R 44						R 45				R 46				R 47	
R 50						R 51				R 52				R 53	
R 54						R 55				R 56				R 57	
R 60						R 61				R 62				R 63	
R 64						R 65				R 66				R 67	
R 70						R 71				R 72				R 73	
R 74						R 75				R 76				R 77	

CART MPU BOARD OCP40/50

REPERES TOPO				DESIGNATION 1				DESIGNATION 2				COMPOSANT								
				---- BUTEE								4A152145								
Z 20				REMP ENTRETOISE F/F				L15 TAR:M3 INOX				99069701								
Z 400				SWIR CIRC ANA DIL T0220				LT1076CT 5 PINS				T1005192								
Z 30				AFIC AFIC LCD				LM4045B64C20SNG				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																				
TP 104				PLOT E06626-L2M								91382049								
TP 360				PLMS PLOT CMS				RCT00000C				T1002596								
TP 1				TP 2	TP 3	TP 4														
TP 5				TP 301	TP 340	TP 350														
J 12								BARR BARRETTE M DRT				T9001677								
								BARR BARRETTE M DRT				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																				
01				CIU MPU BOARD OCP50				- CDA:XL8-THCE0-C188				2C534550AA								
Circuits intégrés CMS																				
Z 470				Z 540	Z 550	CIMS CIRC NUM CMS S014P				74HC04 INVERS. SN74HC04D				99137355						
Z 520								CIMS CIRC NUM CMS S014P				74HC74T				99142001				
Z 340				Z 350	Z 360	CIMS CIRC CMS S08P				NE567D				T1000981						
Z 300				Z 310	Z 325	CIMS CIRC CMS S08P				LMC6482AIM -40+85				T1002656						
Z 330								CIMS CIRC CMS S0L16P				MAX187BCWE 0+70				T1005176				
Q 480								CIMS CIRC CMS S08P				SI9430DY PMOSFET				T1005180				
Z 320								CIMS CIRC CMS S0L24P				MAX529EWG				T1005191				
Z 180								CIMS CIRC NUM CMS S014P				74ACT00				T9000055				
Z 190				Z 500	Z 560	CIMS CIRC NUM CMS S014				74ACT32				T9000079						
Z 160				Z 530	Z 560	CIMS CIRC NUM CMS S014P				74HC125T				T9001569						
Z 450				Z 460	CIMS CIRC NUM CMS S08P				MAX485E DRIVER RS485				T9004906							
Circuits intégrés mémoires CMS																				
Z 150								CIMS CIRC PROC CMS S08P				MAX700CSA DETEC TENSION				T1002869				
Z 100								MPMS MICROP CMS QFP132P				MC68302FC16C				T1005168				
Z 90								EEMS MEM EEPR CMS S08P				1KX16/2KX8 1MHZ 3MA				T9001604				
Z 110				Z 120	SRMS MEM SRA CMS S0J32P				128KX8 15NS 170MA				T9003029							
Commutateurs																				
SW 1				S 2	S 3	S 4	COML COMMUTATEUR LEVIER								91691579					
S 1				S 6	S 7	CODR CODEUR ROTATIF				EC16B24104 SPE 46152176				T6000130						
S 5				S 6	S 7	COMS COMMUTATEUR CMS				1POLE 2POS. 2CONT. INV.				T9004800						
S 310																				
Condensateurs																				
C 404								CAPA COND FIXE CAR1015				470 UF 20% 16V				T9001342				
C 402								CAPA COND FIXE CAR812				47 UF 20% 63V				T9003100				
Condensateurs CMS																				
C 170				C 171	C 212	C 213	C.CH COND CMS 0805 NP0				33 PF 5% 63V				251330					
C 343				C 353	C 363	C.CH COND CMS 0805 NP0				680 PF 1% 63V				252681						
C 322								C.CH COND CMS CTC3B TANT				1 UF 20% 35V				96103285				
C 103				C 104	C.CH COND CMS 0805 NP0				22 PF 5% 100V				99187398							
C 501				C 561	C.CH COND CMS 0805 NP0				100 PF 5% 100V				99187412							
C 471				C 472	C.CH COND CMS 0805				10 NF 10% 63V				T9000152							
C 202				C 203	C 204	C 205	C.CH COND CMS 0805				1 NF 10% 100V				T9000332					
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 352																				
C 342								C.CH COND CMS 0805				4.7 NF 10% 100V				T9000333				
C 362								C.CH COND CMS 0805				6.8 NF 10% 63V				T9000851				
C 311				C 331	C 332	C 400	C.CH COND CMS 0805 NP0				3.3 NF 10% 100V				T9000878					
C 510				C 331	C 332	C 400	C.CH COND CMS CTC3B TANT				4,7MF 20% 16V				T9001370					
C 105				C 110	C 120	C 130	C.CH COND CMS 0805 X7R				100 NF 10% 63V				T9004666					
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																				
J 10				J 11	J 20	CNEC EMBASE F DRT				FFC 10 CI2,4				T1002439						
J 3								CNEC EMBASE M DRT				SUBD 09 WRAP 2,74/2,84				T1005194				
J 1				J 2	CNEC EMBASE F DRT				SUBD 09 WRAP 2,74/2,84				T9001515							
J 13								CNEC EMBASE M DRT				RECT 2X6 PAS 2MM CI1.6				T9005693				
Diodes CMS																				
CRL 160								LEDS DIOD LED CMS S0T23				LSS260-D0 ROUGE				306024				
CRL 1				CRL 120	LEDS DIOD LED CMS S0T23				LGS260-D0 VERTE				91613459							
CRL 340				CRL 350	CRL 360	LEDS DIOD LED CMS S0T23				LYS260-D0 JAUNE				91613461						
CR 420								DIMS DIOD CMS S0T23				BAS16 [A6]				99110304				
CR 410				CR 411	CR 412	CR 421	DIMS DIOD CMS S0T23				BAY99				99116852					
CR 403								DIMS DIOD CMS				MBRD660CT 60V 6A				T1002443				
CR 400				CR 401	DIMS DIOD CMS				MBRD660CT 60V 6A				T1002444							
Divers mécaniques																				
24								VROU VERRROU 8630-01				P/SUBD				91283652				
Etiquettes																				
								ETIQ *ETIQUETTE 22X6,5MM				3921-3M(IDENTIF) BD:5000				T9004114				
Fusibles CMS																				
F 1								FUMS FUSIBLE CMS				SMD030 0.3A				T9004705				
inductances																				
L 400				L 401	SELF SELF TSL1110				100 UH 10%				T9003230							
Oscilateurs																				
Y 100				Y 200	OCMS OSCIL. CMS CSACS8T				Resonateur MOS 8 mh				T1002473							
Y 170				QRTZ QUARTZ HC49S				47.3729MHZ 50PPM BP				T9000410								
Résistances CMS-Potentiomètres CMS																				
R 144				R 172	R 212	R 400	RESC RESIST CMS 0805				1 MOHM 5% 1/8W K200				161105					
R 470				R 480																
R 101				R 102	R 104	R 125	RESC RESIST CMS 0805				1 KOHM 1% 1/10W K100				162102					
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	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	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	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	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	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	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	2,21K0 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	S03906 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

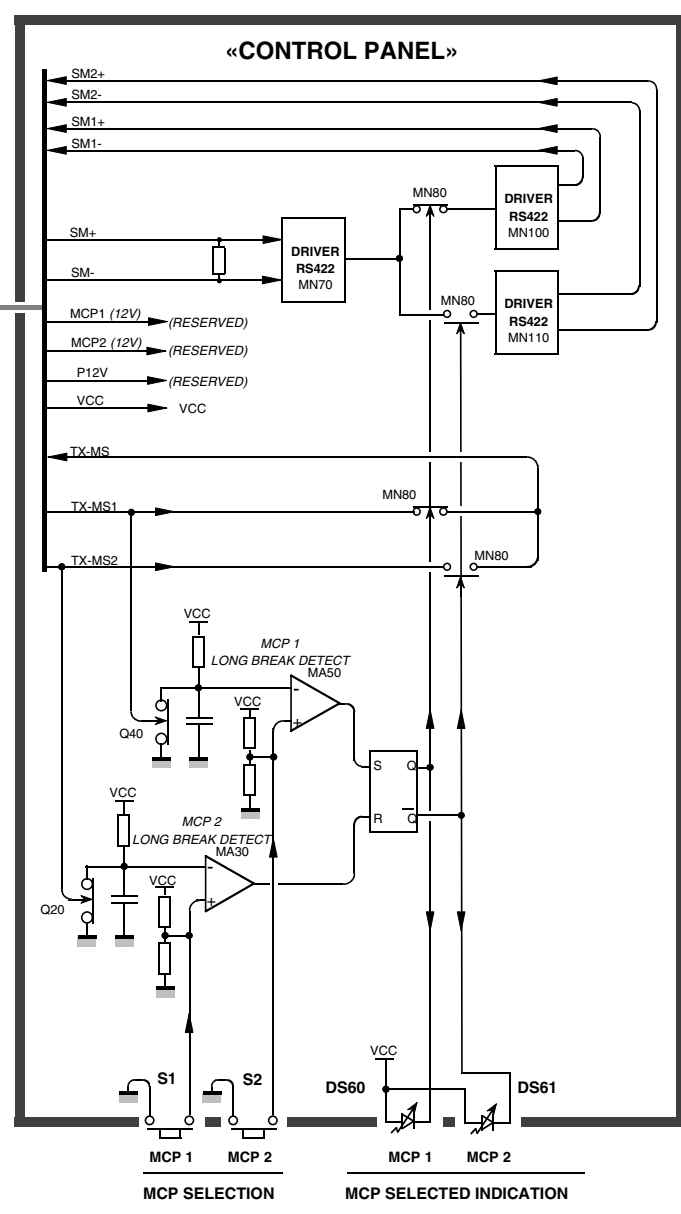
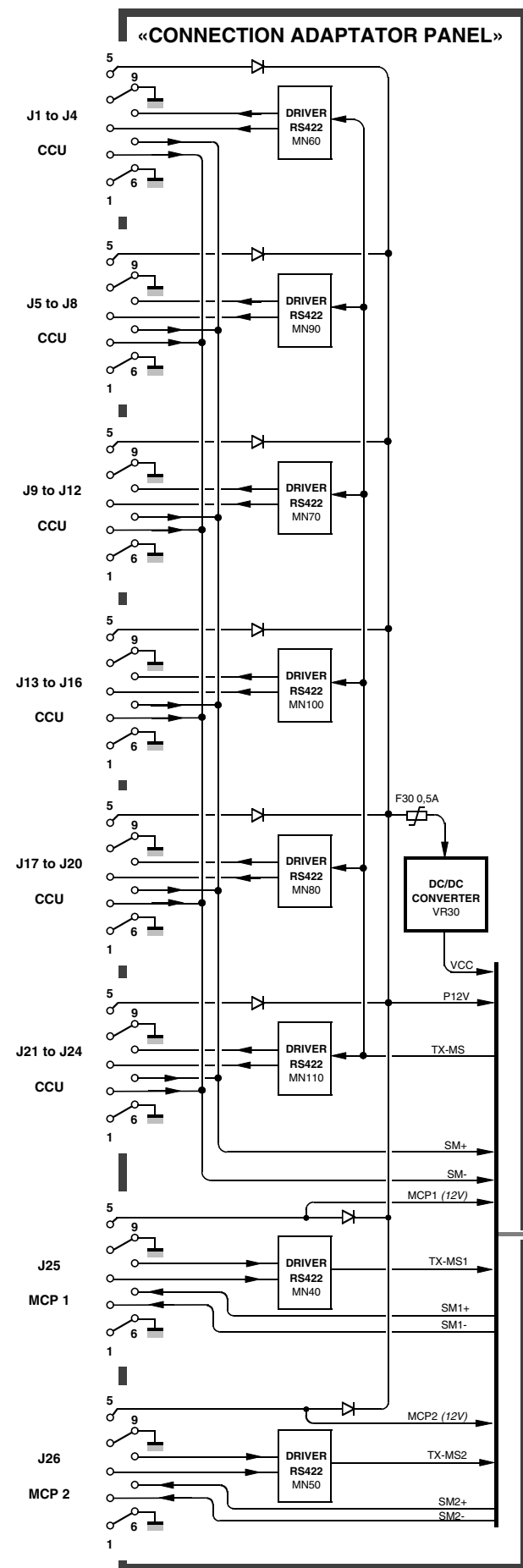
Chapter 3

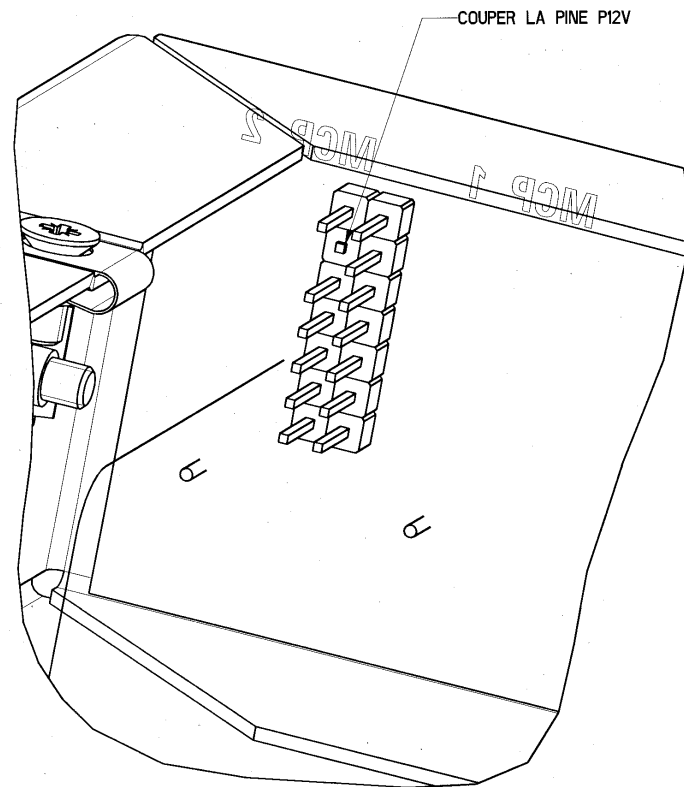
CAP

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

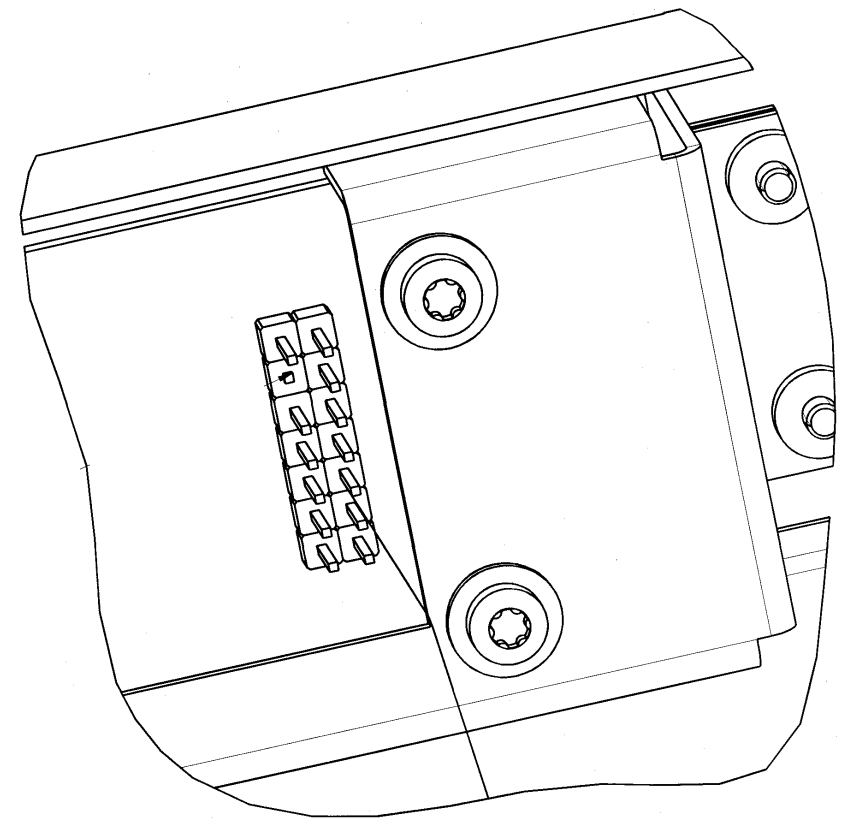
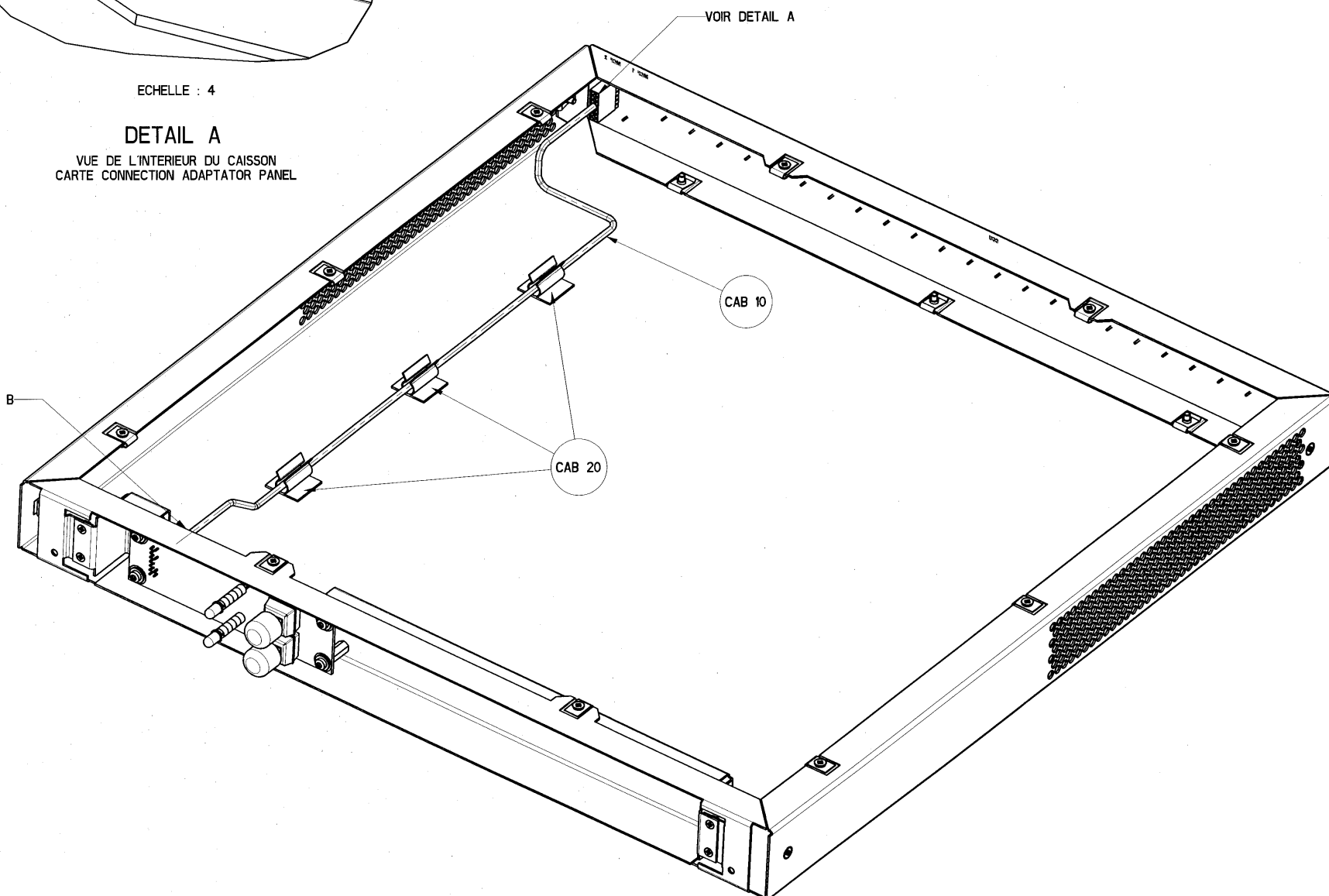
Niv.	Composant	Rév	P/M	T	Fa	Description	Description	Qté	lien	UM
Compos	B1500H01AA	02	M			CACC CAP	Connection Adaptor Panel			EA
1	47268003AA	05	M	x		COFT CAISSON CAP CABLE		1,0		EA
.2	46150719AA	02	M			CART CONNECTION	ADAPTATOR PANEL	1,0		EA
.2	46150774AA	03	M			CART CONTROL PANEL		1,0		EA
.2	47268015AA	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 ADAPTATOR PANEL



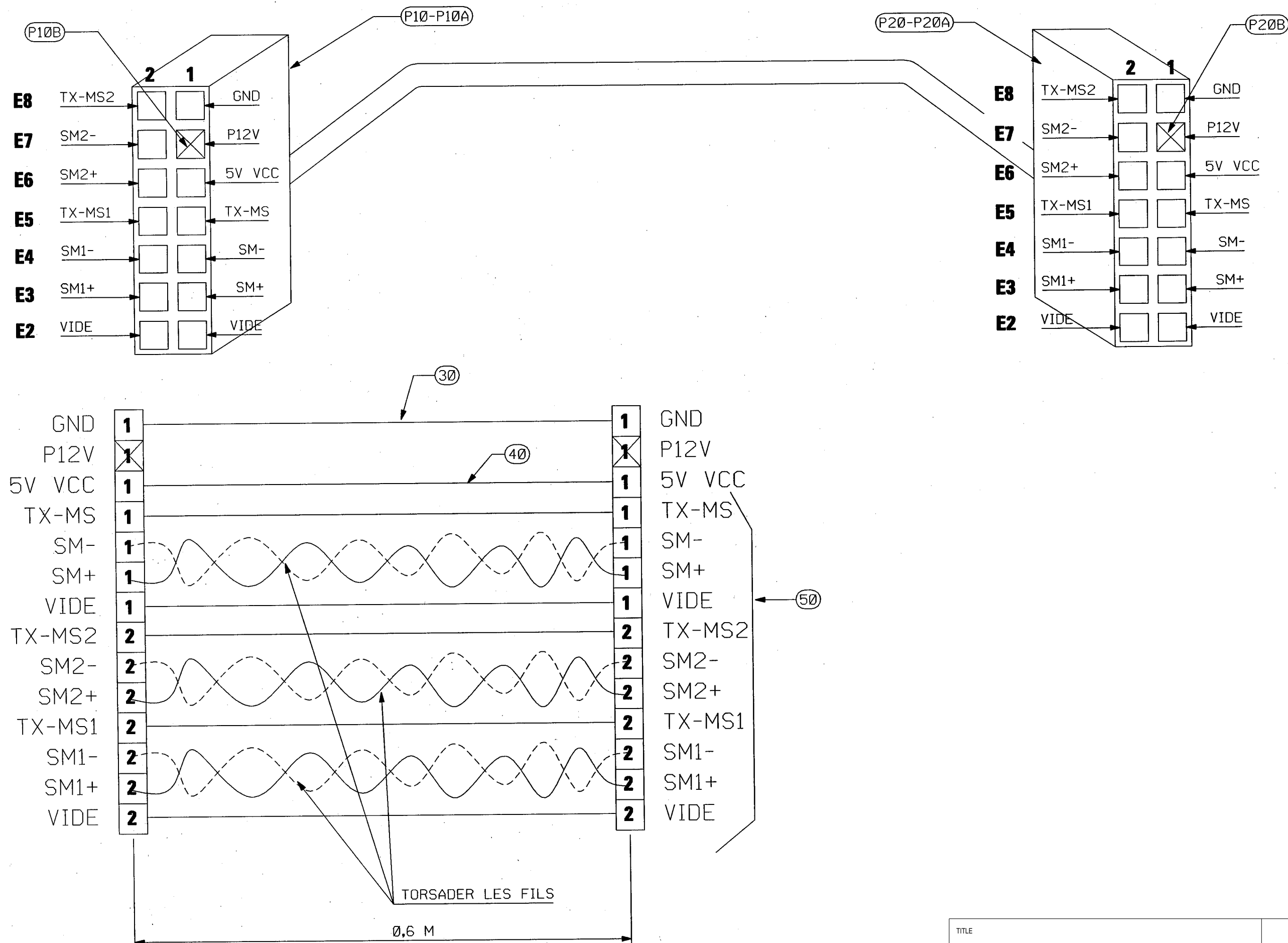
DETAIL B

VUE DE L'INTERIEUR DU CAISSON
CARTE CONTROL PANEL

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

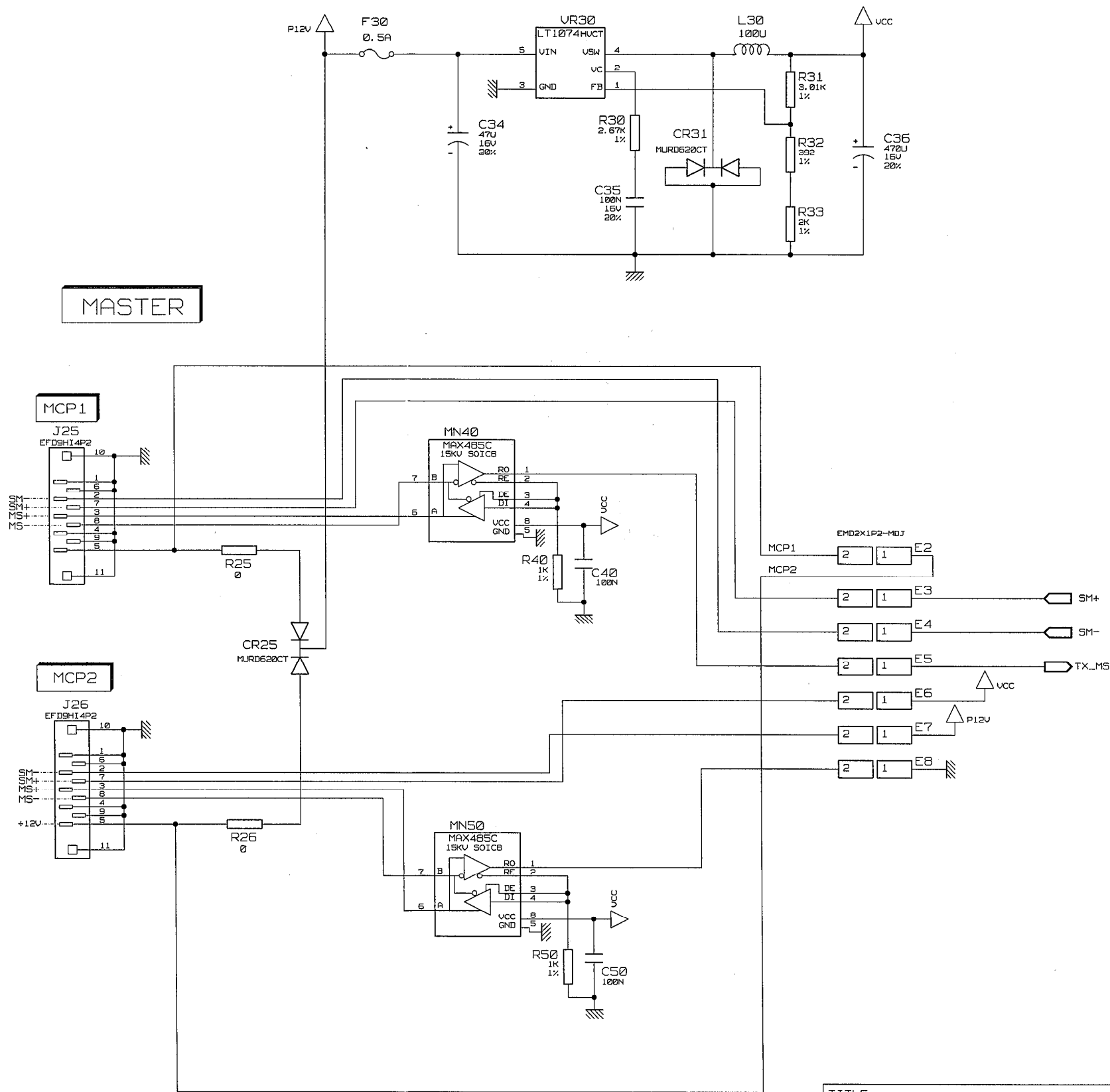
THOMSON

DRAWING No	REV	CODE	SIZE	SHEET
47268003AA	D	040	0	01/01



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

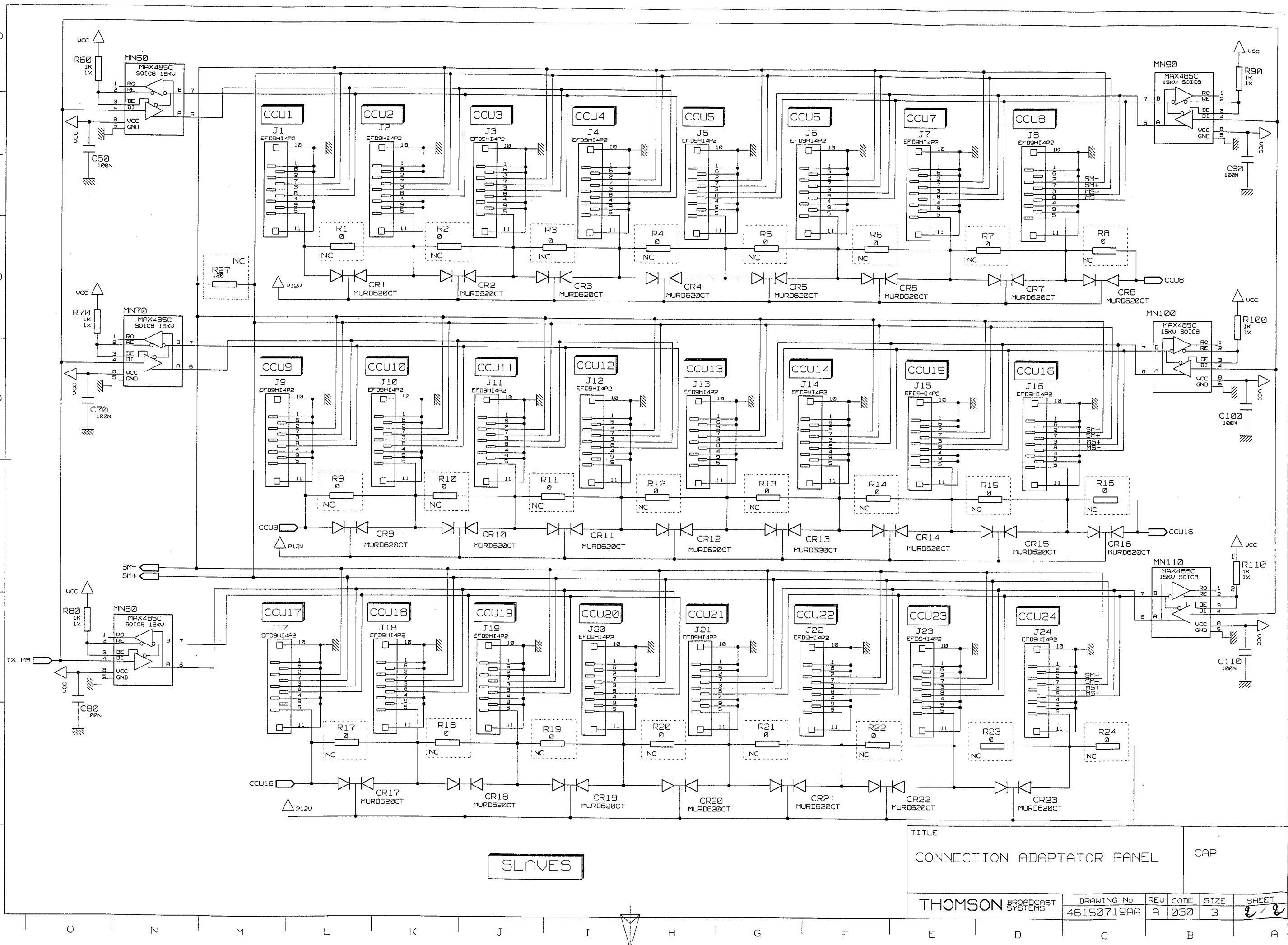
CONNECTORS			
	MASTER	PINS	SLAVE
	GND	1	GND
SM-	RA-	2	AA-
SM+	AB+	3	AB+
	GND	4	GND
	+12V	5	+12V
	GND	6	GND
MS+	AB+	7	AB+
MS-	AA-	8	RA-
	GND	9	GND



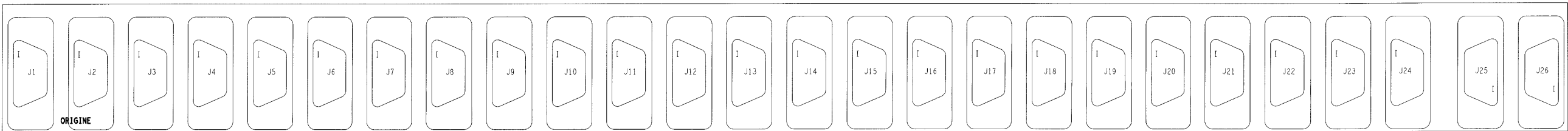
TITLE		CAP				
CONNECTION ADAPTATOR PANEL						
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		46150719AA	B	030	3	1 / 2

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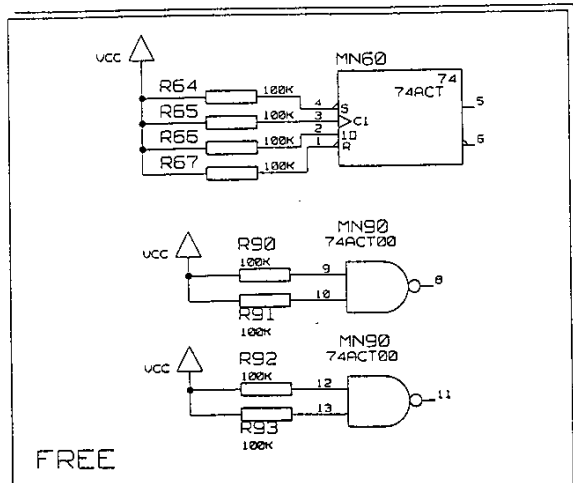
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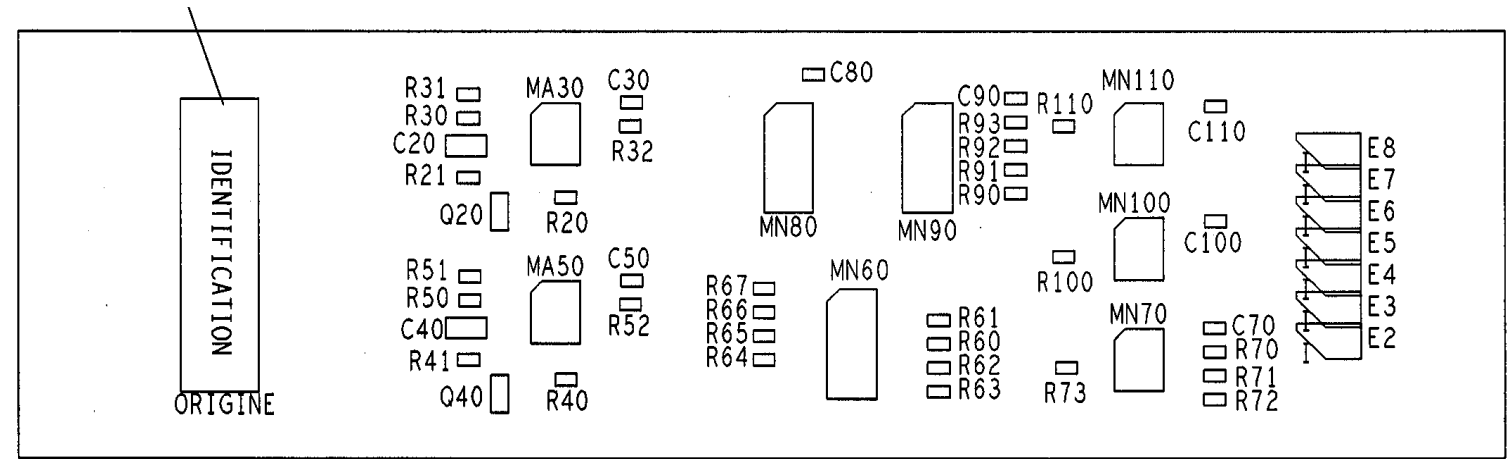
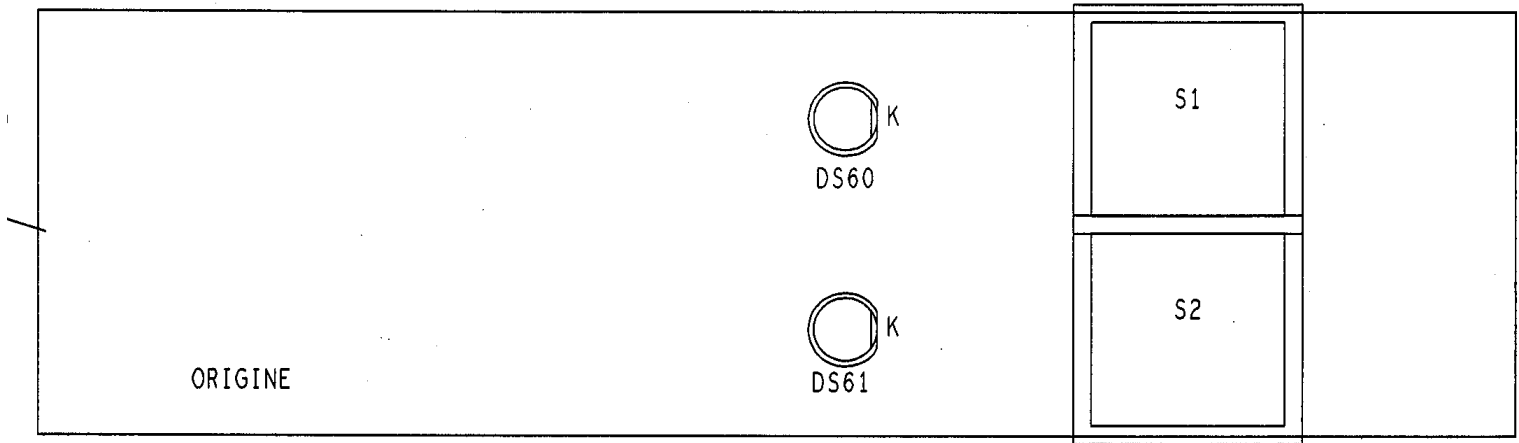
TITLE		CONNECTION ADAPTATOR PANEL		CAP	
THOMSON BROADCAST SYSTEMS	DRAWING No	REV	CODE	SIZE	SHEET
	46150719AA	A	030	3	2/2



TITLE CONNECTION ADAPTATOR PANEL				CAP		
THOMSON BROADCAST SYSTEMS		DRAWING No	REV	CODE	SIZE	SHEET
		46150719AA	A	046	1	01/01



THOMSON BROADCAST
SYSTEMS



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 T0220 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 S08P	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 K0 1% 1/10W K100 2 K0 1% 1/10W K100 2,67K0 1% 1/10W K100 3,01K0 1% 1/10W K100 392 0 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	LED DIOD LED 5MM	HLMP-3507 VERT	91361406
ID	REMP 25,4X6,35MM	POLYIMIDE H TEMP.	T9004679
Accessoires cablages			
E 2 E 3 E 4 E 5	BARR BARETTE SECABLE	1X36 MD	91395276
E 6			
Circuit imprimé nu			
01	CIU CONTROL PANEL		29534733AA
Circuits intégrés CMS			
MA 30 MA 50	CIMS CIRC ANA CMS S08P	LM311 COMPAREUR	99129838
MN 90	CIMS CIRC NUM CMS S014P	74ACT00	T9000055
MN 80	CIMS CIRC NUM CMS S014	74ACT32	T9000079
MN 60	CIMS CIRC NUM CMS S014	74ACT74	T9000087
MN 70 MN 100 MN 110	CIMS CIRC NUM CMS S08P	MAX485E DRIVER RS485	T9004906
Commutateurs			
S 1 S 2	COMP COMMUT. A POUSSOIR	MX1A-11NW	L0000565
Condensateurs CMS			
C 20 C 40	C.CH COND CMS CTC3A TANT	0.33 UF 20% 35V	T9003001
C 30 C 50 C 51 C 70	C.CH COND CMS 0603 Z5U	100 NF 20% 16V	T9005086
C 80 C 90 C 100 C 110			
Résistances CMS-Potentiomètres CMS			
R 62 R 63 R 73 R 100	RESC RESIST CMS 0603	1 K0 1% 1/10W K100	T9005114
R 110			
R 20 R 30 R 32 R 40	RESC RESIST CMS 0603	100 K0 1% 1/10W K100	T9005116
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	RESC RESIST CMS 0603	4,75K0 1% 1/10W K100	T9005145
R 71	RESC RESIST CMS 0603	150 0 1% 1/10W K100	T9005155
R 31 R 51	RESC RESIST CMS 0603	150 K0 1% 1/10W K100	T9005198
R 21 R 41	RESC RESIST CMS 0603	392 K0 1% 1/10W K100	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