



GE Medical Systems

Technical Publications

sm 2119703-100

Revision 9

MP Phase 4 + Vascular Option Generator Schematics

do not duplicate

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ATTENTION

LES APPAREILS À RAYONS X SONT DANGEREUX À LA FOIS POUR LE PATIENT ET POUR LE MANIPULATEUR SI LES MESURES DE PROTECTION NE SONT PAS STRICTEMENT APPLIQUEES

Bien que cet appareil soit construit selon les normes de sécurité les plus sévères, la source de rayonnement X représente un danger lorsque le manipulateur est non qualifié ou non averti. Une exposition excessive au rayonnement X entraîne des dommages à l'organisme.

Par conséquent, toutes les précautions doivent être prises pour éviter que les personnes non autorisées ou non qualifiées utilisent cet appareil créant ainsi un danger pour les autres et pour elles-mêmes.

Avant chaque manipulation, les personnes qualifiées et autorisées à se servir de cet appareil doivent se renseigner sur les mesures de protection établies par la Commission Internationale de la Protection Radiologique, Annales 26 : Recommandations de la Commission Internationale sur la Protection Radiologique et les normes nationales en vigueur.

WARNING

X-RAY EQUIPMENT IS DANGEROUS TO BOTH PATIENT AND OPERATOR UNLESS MEASURES OF PROTECTION ARE STRICTLY OBSERVED

Though this equipment is built to the highest standards of electrical and mechanical safety, the useful x-ray beam becomes a source of danger in the hands of the unauthorized or unqualified operator. Excessive exposure to x-radiation causes damage to human tissue.

Therefore, adequate precautions must be taken to prevent unauthorized or unqualified persons from operating this equipment or exposing themselves or others to its radiation.

Before operation, persons qualified and authorized to operate this equipment should be familiar with the Recommendations of the International Commission on Radiological Protection, contained in Annals Number 26 of the ICRP, and with applicable national standards.

ATENCIÓN

LOS APARATOS DE RAYOS X SON PELIGROSOS PARA EL PACIENTE Y EL MANIPULADOR CUANDO LAS NORMAS DE PROTECCION NO ESTAN OBSERVADAS

Aunque este aparato está construido según las normas de seguridad más estrictas, la radiación X constituye un peligro al ser manipulado por personas no autorizadas o incompetentes. Una exposición excesiva a la radiación X puede causar daños al organismo.

Por consiguiente, se deberán tomar todas las precauciones necesarias para evitar que las personas incompetentes o no autorizadas utilicen este aparato, lo que sería un peligro para los demás y para sí mismas.

Antes de efectuar las manipulaciones, las personas habilitadas y competentes en el uso de este aparato, deberán informarse sobre las normas de protección fijadas por la Comisión Internacional de la Protección Radiológica, Anales No 26: Recomendaciones de la Comisión Internacional sobre la Protección Radiológica y normas nacionales.

ACHTUNG

RÖNTGENAPPARATE SIND EINE GEFAHR FÜR PATIENTEN SOWIE BEDIENUNGSPERSONAL, WENN DIE GELTENDEN SICHERHEITSVORKEHRUNGEN NICHT GENAU BEACHTET WERDEN

Dieser Apparat entspricht in seiner Bauweise strengsten elektrischen und mechanischen Sicherheitsnormen, doch in den Händen unbefugter oder unqualifizierter Personen wird er zu einer Gefahrenquelle. Übermäßige Röntgenbestrahlung ist für den menschlichen Organismus schädlich.

Deswegen sind hinreichende Vorsichtsmaßnahmen erforderlich, um zu verhindern, daß unbefugte oder unqualifizierte Personen solche Geräte bedienen oder sich selbst und andere Personen deren Bestrahlung aussetzen können.

Vor Inbetriebnahme dieses Apparats sollte sich das qualifizierte und befugte Bedienungspersonal mit den geltenden Kriterien für den gefahrlosen Strahleneinsatz durch sorgfältiges Studium des Hefts Nr. 26 der Internationalen Kommission für Strahlenschutz (ICRP) vertraut machen: Empfehlungen der Internationalen Kommission für Strahlenschutz und anderer nationaler Normenbehörden.

WARNING

VOLTAGE PRESENT

Before any intervention:

1. Switch **OFF** CB2 on the AC Power Distribution (VPE1 A2 A25) in Positioner Cabinet.
2. Switch **OFF** Positioner Cabinet Circuit Breaker in Generator Power Cabinet.

LOCK OUT/ TAG OUT

When necessary, perform the following lock out/ tag out procedure:

- 1.. Cut the customer power distribution cabinet from its energy source.
- 2.. Inform all concerned parties of the lockout.
- 3.. Lock and put a lockout label on the cabinet.
- 4.. Verify the absence of voltage in the cabinet.
- 5.. Proceed with service to the equipment.
- 6.. Unlock the cabinet and remove the label from the cabinet.
- 7.. Power-up the system.

Direction 2119703-100

Revision 9

MP PHASE 4 Generator Installation

IMPORTANT! ... X-RAY PROTECTION

X-RAY equipment if not properly used may cause injury. Accordingly, the instructions herein contained should be thoroughly read and understood before you attempt to place this equipment in operation. The General Electric Company, Medical Systems Group, will be glad to assist and cooperate in placing this equipment in use.

Although this apparatus incorporates a high degree of protection against x-radiation other than the useful beam. No practical design of equipment can provide complete protection. Nor can any practical design compel the operator to take

adequate precautions to prevent the possibility of any persons carelessly, unwisely, or unknowingly exposing themselves or others to radiation.

It is important that everyone having anything to do with x-radiation be properly trained and fully acquainted with the recommendations of the National Council on Radiation Protection and Measurements as published in NCRP Reports available from NCRP Publications, 7910 Woodmont Avenue, Room 1016, Bethesda, Maryland 20814 and of the International Commission on Radiation Protection, and take adequate steps to insure protection against injury.

All persons authorized to use the equipment must be cognizant of the danger of excessive exposure to x-radiation and the equipment is sold with the understanding that the General Electric Company, Medical Systems Group, its agents, and representatives have no responsibility for injury or damage which may result from exposure to x-radiation.

Various protective material and devices are available. It is urged that such materials or devices be used.

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WARNING

- THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.
- IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.
- DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.
- FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.

AVERTISSEMENT

- CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.
- SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.
- NE PAS TENTER D'INTERVENTION SUR LES ÉQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ÉTÉ CONSULTÉ ET COMPRIS.
- LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAÎNER CHEZ LE TECHNICIEN, L'OPÉRATEUR OU LE PATIENT DES BLESSURES DUES À DES DANGERS ÉLECTRIQUES, MÉCANIQUES OU AUTRES.

WARNUNG

- DIESES KUNDENDIENST-HANDBUCH EXISTIERT NUR IN ENGLISCHER SPRACHE.
- FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.
- VERSUCHEN SIE NICHT, DAS GERÄT ZU REPARIEREN, BEVOR DIESES KUNDENDIENST-HANDBUCH NICHT ZU RATE GEZOGEN UND VERSTANDEN WURDE.
- WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH ELEKTRISCHE SCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.

AVISO

- ESTE MANUAL DE SERVICIO SÓLO EXISTE EN INGLÉS.
- SI ALGÚN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLÉS, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCIÓN.
- NO SE DEBERÁ DAR SERVICIO TÉCNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.
- LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.

ATENÇÃO

- ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.
- SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.
- NÃO TENHA TENTAR REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA.
- O NÃO CUMPRIMENTO DESTA AVISO PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.

AVVERTENZA

- IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.
- SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.
- SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.
- NON TENERE CONTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.

警告

- ・このサービスマニュアルには英語版しかありません。
- ・GEMS以外でサービスを担当される業者が英語以外の言語を要求される場合、翻訳作業はその業者の責任で行うものとさせていただきます。
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注意:

- 本维修手册仅存有英文本。
- 非 GEMS 公司的维修员要求非英文本的维修手册时，客户需自行负责翻译。
- 未详细阅读和完全了解本手册之前，不得进行维修。
- 忽略本注意事项会对维修员，操作员或病人造成触电，机械伤害或其他伤害。

REVISION HISTORY

REV	DATE	REASON FOR CHANGE
0	Jul. 17, 1991	Schematics for production.
1	Oct. 31, 1991	Review of rev.0.
2	Mar. 04, 1992	Updated.
3	Jun. 04, 1992	
0	May 31, 1993	MP Phase 4 (Ph. 2). New Part No. 36004389 for sm.
0	July 15, 1995	MP Phase 4 (Ph. 4) + Vascular Option Generator. New Part No. 2119703-100 for Schematics (old Part No.: 36004385).
1	31-Jan-96	Updated (Technical Release 2) New schematics for: Measure and Commutation Board, Mini Bridge Board, Regulation Board, Control Board, Interface 2 Board, Grid/Bias Interface Board, AC Distribution Panel and Filter Board.
2	14-Jun-96	Updated (SPR BUCge17973) New schematic for CPU Board.
3	23-Oct-96	Schematic Update.
4	3-Apr-97	Schematic Update: Interface I Board and Measurement and Commutation
5	2-Dec-97	Update.
6	06-Mar-98	Updates for Butterfly: Modification to Schematic 2115419. Update Schematic 2127280 to revB.
7	09-Apr-99	Updates for NF2: Modification to Schematic 2140213-2. Update Schematic 2140213-2 to revA.
8	09-Feb.-2000	New Security Board. Updated Inverters 1 & 2 Block Diagrams.
9	25-Sept-2001	External ECM Power Supply updated on CPU Board schematic. (page 205)

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WARNING

**LINE VOLTAGE IS PRESENT ON MP PHASE 42 A1 A4
BOARD
WHEN MAIN CIRCUIT BREAKER IS "OFF"**

REMARK

There is a s/w protection circuit which prevents frequent "ON-OFF" cycling of the MP. The MP can be cycled "ON" and "OFF" only 7 times in a 21 minutes time period. Every 3 minutes one of the switch cycle counts is removed. (e.g. you could cycle indefinitely if you wait 3 minutes between each "ON-OFF" cycle).

This delay is required to protect certain components in the AC Supply board (MP Phase 41 A4 A1), from the effects of capacitor charge and discharge.

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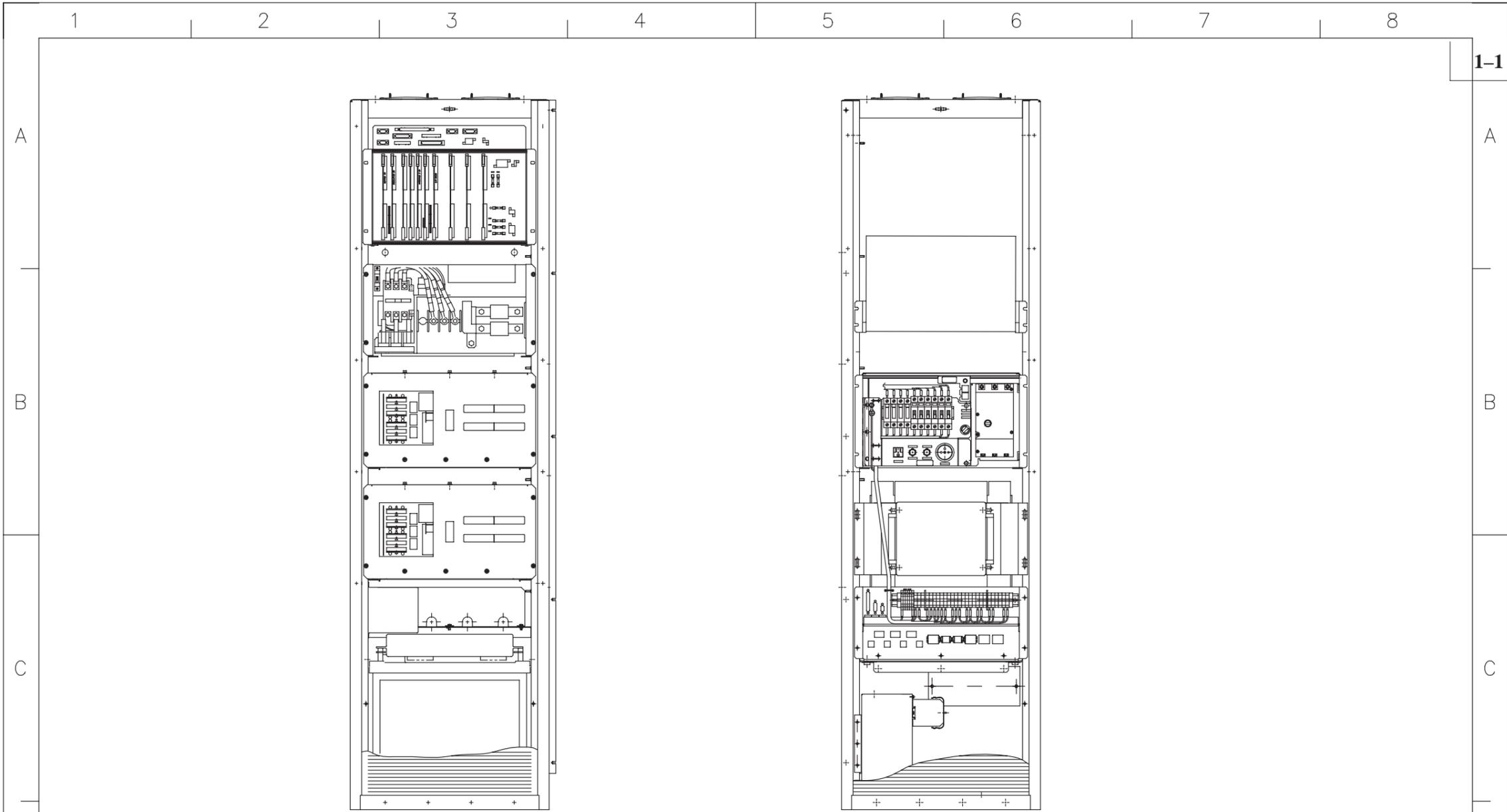
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DISPOSITION DES VUES

TOLERANCES GENERALES
 LONGUEUR 2M : ±0,02 M/M AVEC UN MINIMUM DE ±0,01M.
 LONGUEUR > 2M : ±0,04 M/M.

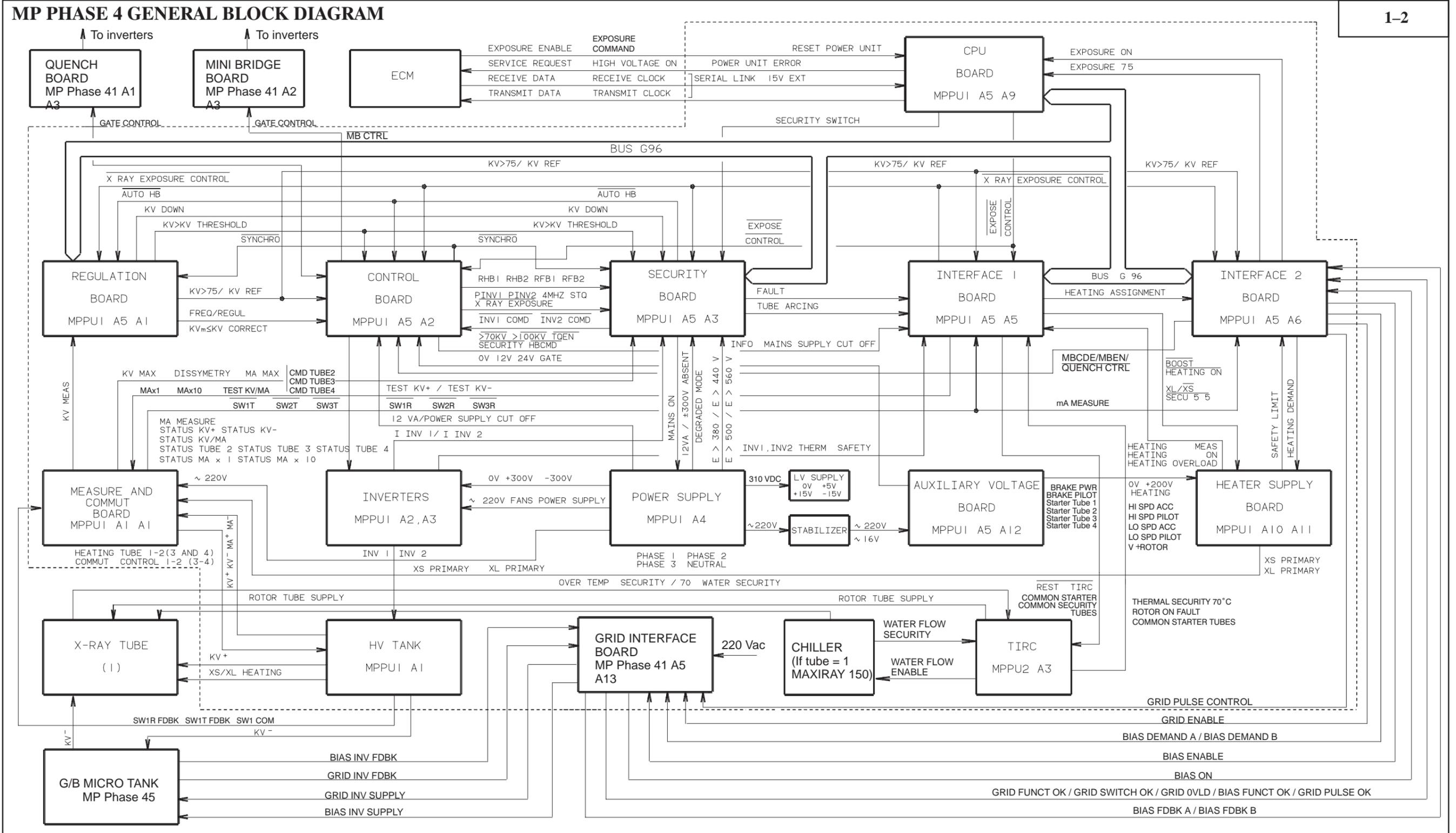
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VERIFIE PAR	MOUSSAY	28/02/95			
REVISIONS					

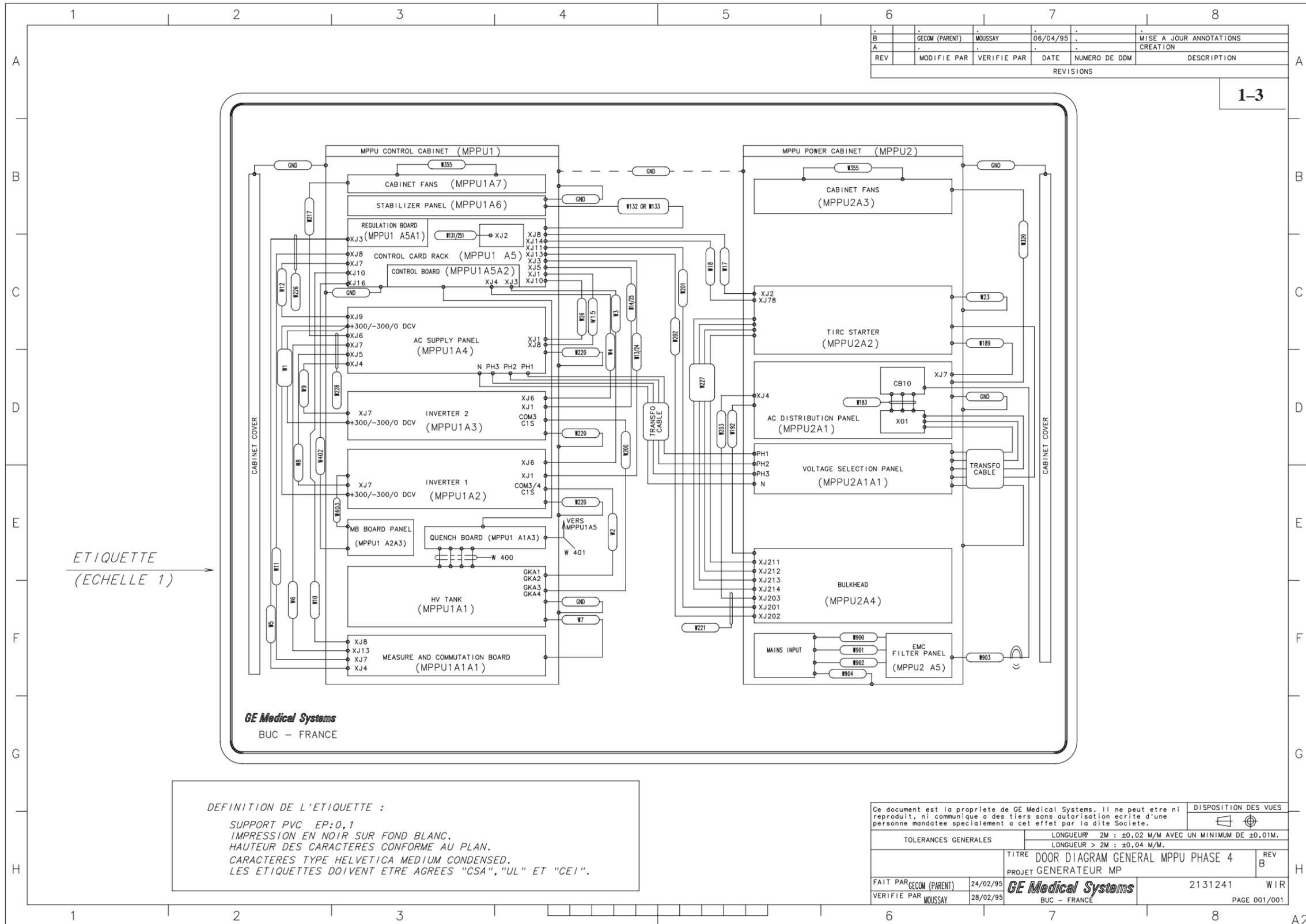
TITRE
 GENERATEUR MPPU PHASE 4 HLB
 PROJET GENERATEUR MP
 REV A

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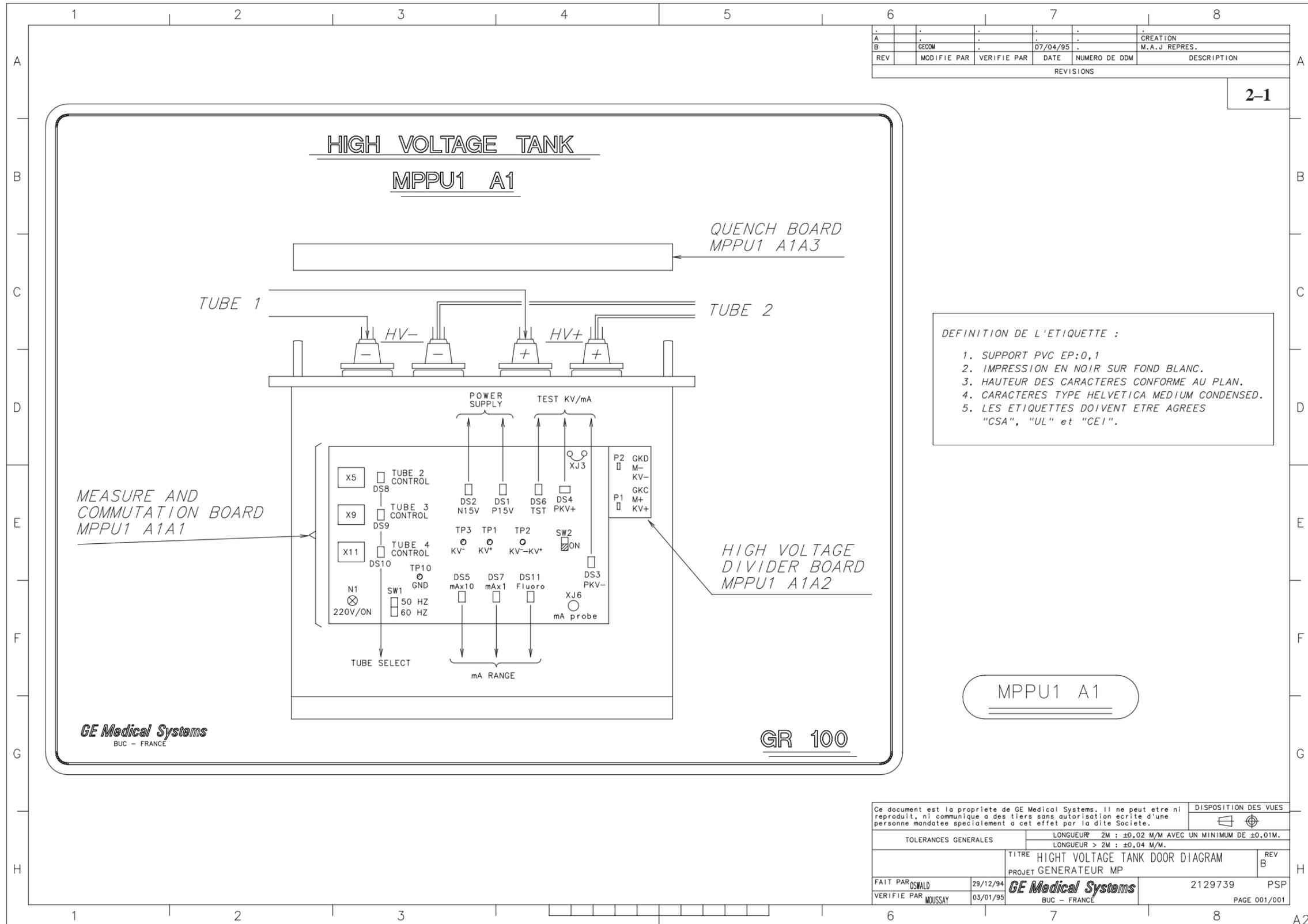
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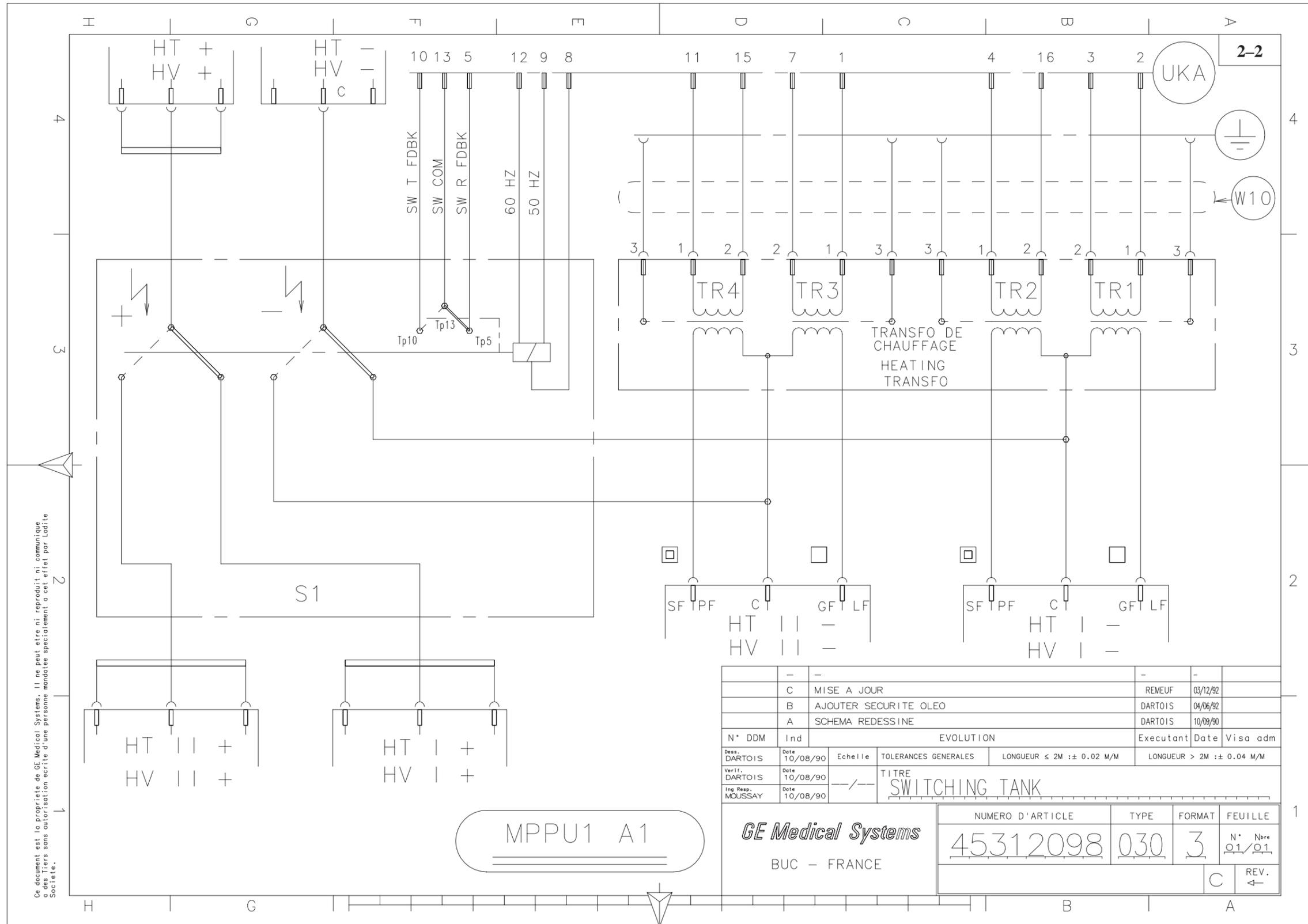
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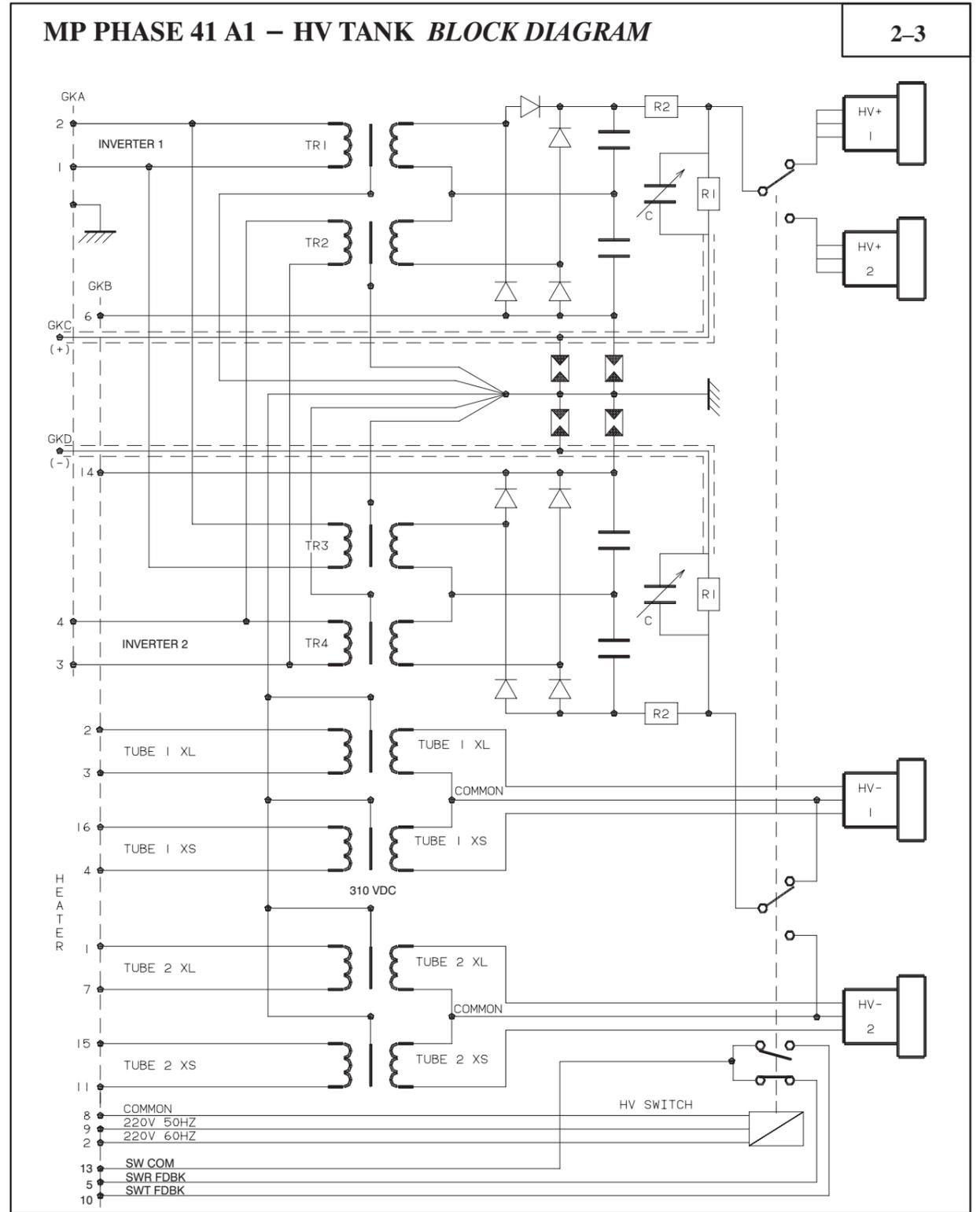


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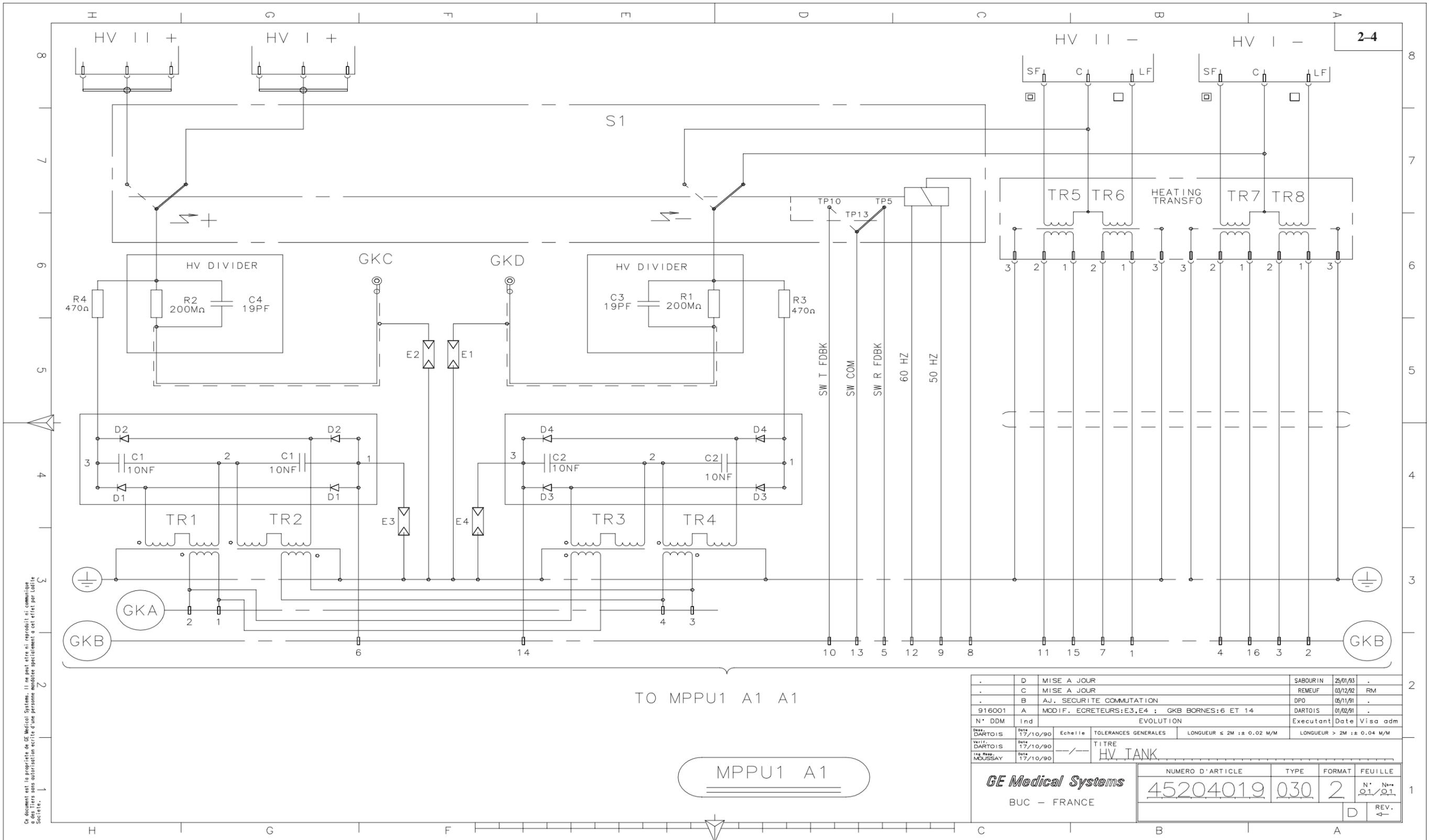
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C	MISE A JOUR	REMEUF	03/12/92				
B	AJOUTER SECURITE OLEO	DARTOIS	04/06/92				
A	SCHEMA REDESSINE	DARTOIS	10/09/90				
N° DDM	Ind	EVOLUTION		Executant	Date	Visa	adm
Dess. DARTOIS	Date 10/08/90	Echelle	TOLERANCES GENERALES	LONGUEUR ≤ 2M ± 0.02 M/M	LONGUEUR > 2M ± 0.04 M/M		
Verif. DARTOIS	Date 10/08/90	TITRE		SWITCHING TANK			
Ing Resp. MOUSSAY	Date 10/08/90						
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TO MPPU1 A1 A1

MPPU1 A1

·	D	MISE A JOUR	SABOURIN	25/01/93	·
·	C	MISE A JOUR	REMEUF	03/12/92	RM
·	B	AJ. SECURITE COMMUTATION	DPO	05/11/91	·
916001	A	MODIF. ECRIEURS:E3,E4 : GKB BORNES:6 ET 14	DARTOIS	01/02/91	·
N° DDM	Ind	EVOLUTION		Executant	Date Visa adm
Des.	DARTOIS	Date	17/10/90	Echelle	TOLERANCES GENERALES
Var.	DARTOIS	Date	17/10/90	---	TITRE
Ins Resp.	MOUSSAY	Date	17/10/90	---	HV TANK
LONGUEUR ≤ 2M ± 0.02 M/M		LONGUEUR > 2M ± 0.04 M/M			
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MNEMONICS

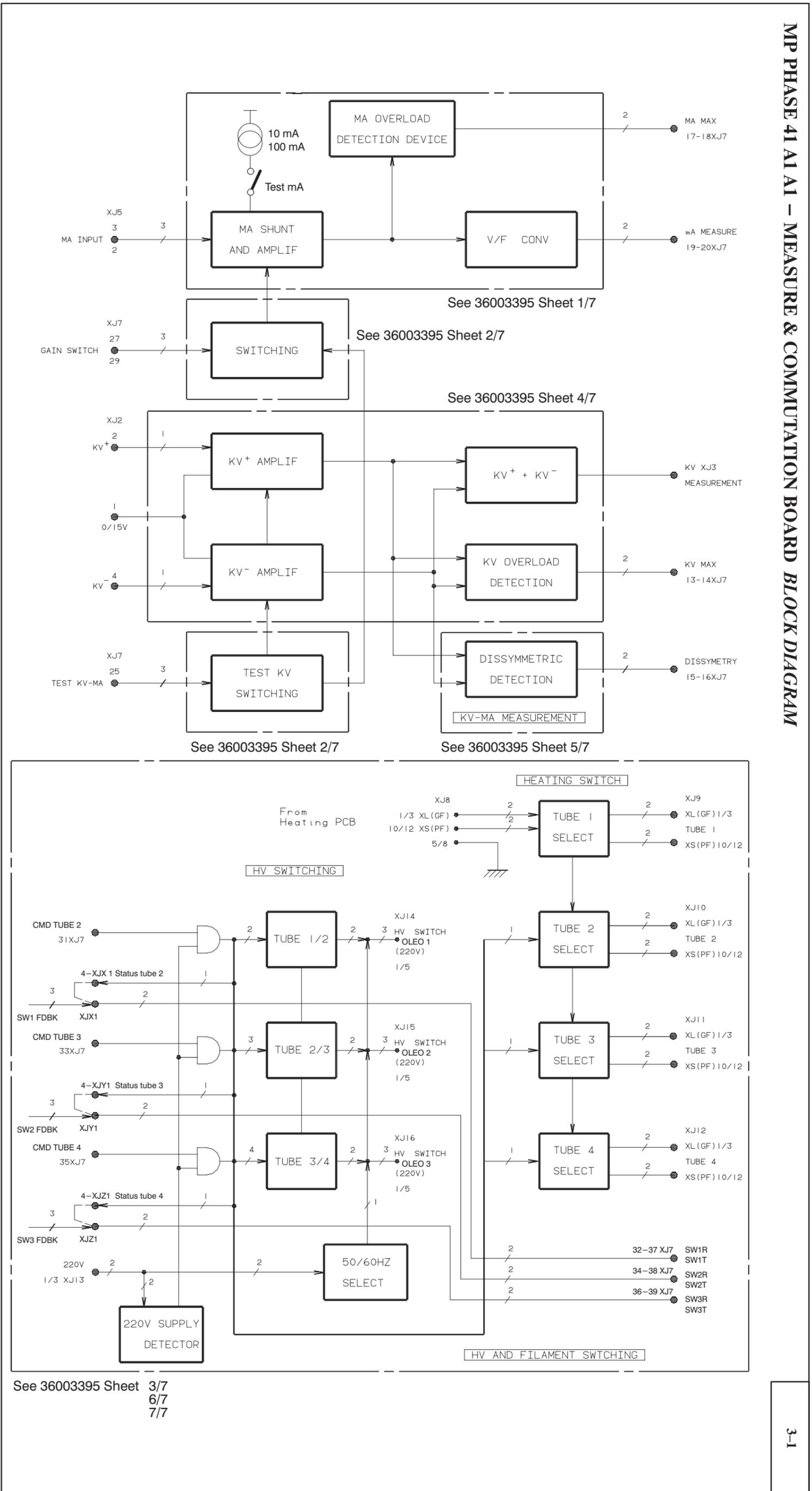
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MP PHASE 41 A1 A1 – MEASURE & COMMUTATION BOARD

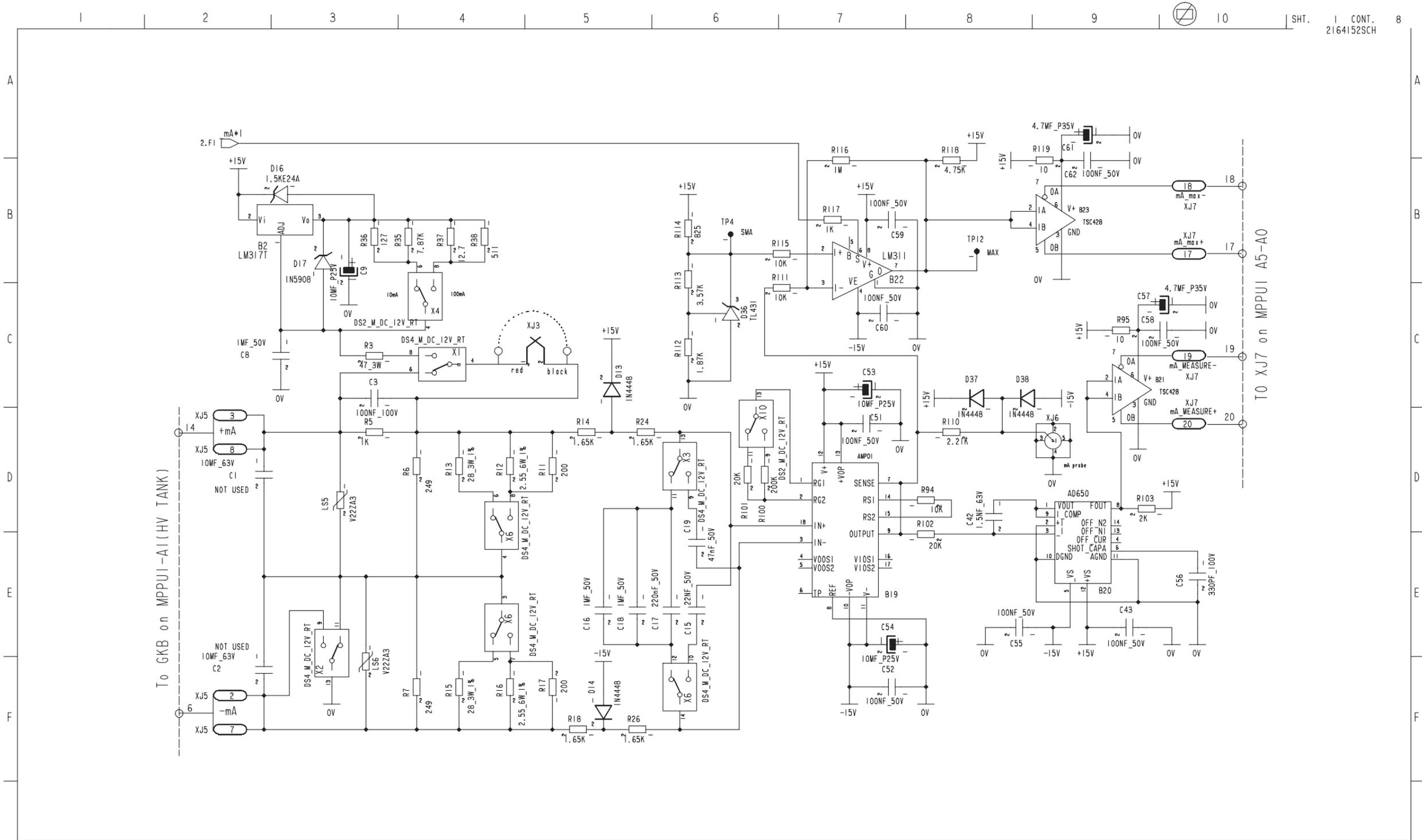
XS	Small Focus
XL	Large Focus
kV+	High voltage anode
kV-	High voltage cathode
Test kV-mA	
SW1FDBK	Switch 1 Feedback
SW2FDBK	Switch 2 Feedback
SW3FDBK	Switch 3 Feedback
SW1/2/3 T	High voltage switch 1/2/3 Feedback to Interface 1 Board
SW1/2/3 R	High voltage switch 1/2/3 Feedback to Interface 1 Board

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MP PHASE 41 A1 A1 - MEASURE & COMMUTATION BOARD BLOCK DIAGRAM

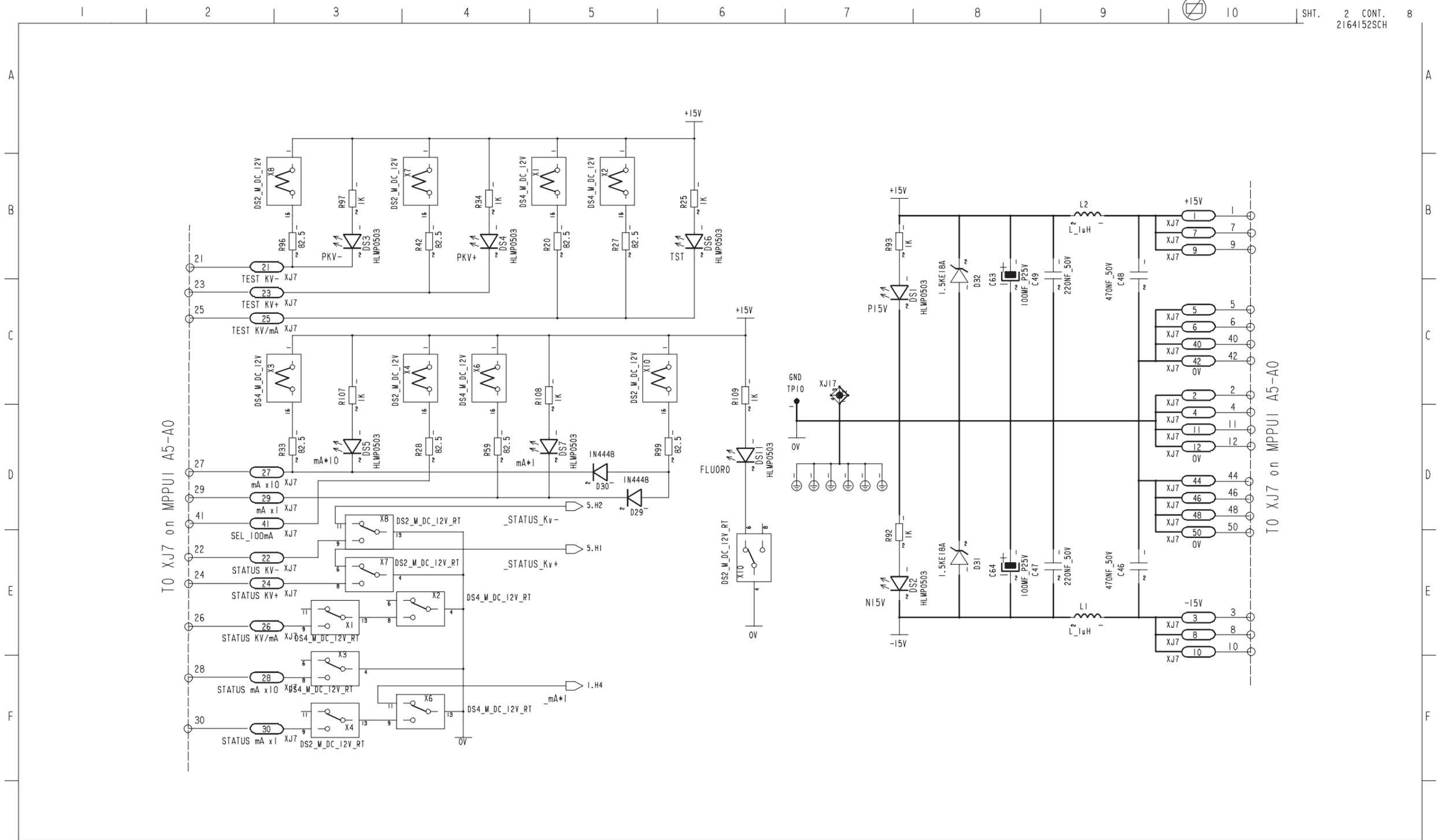


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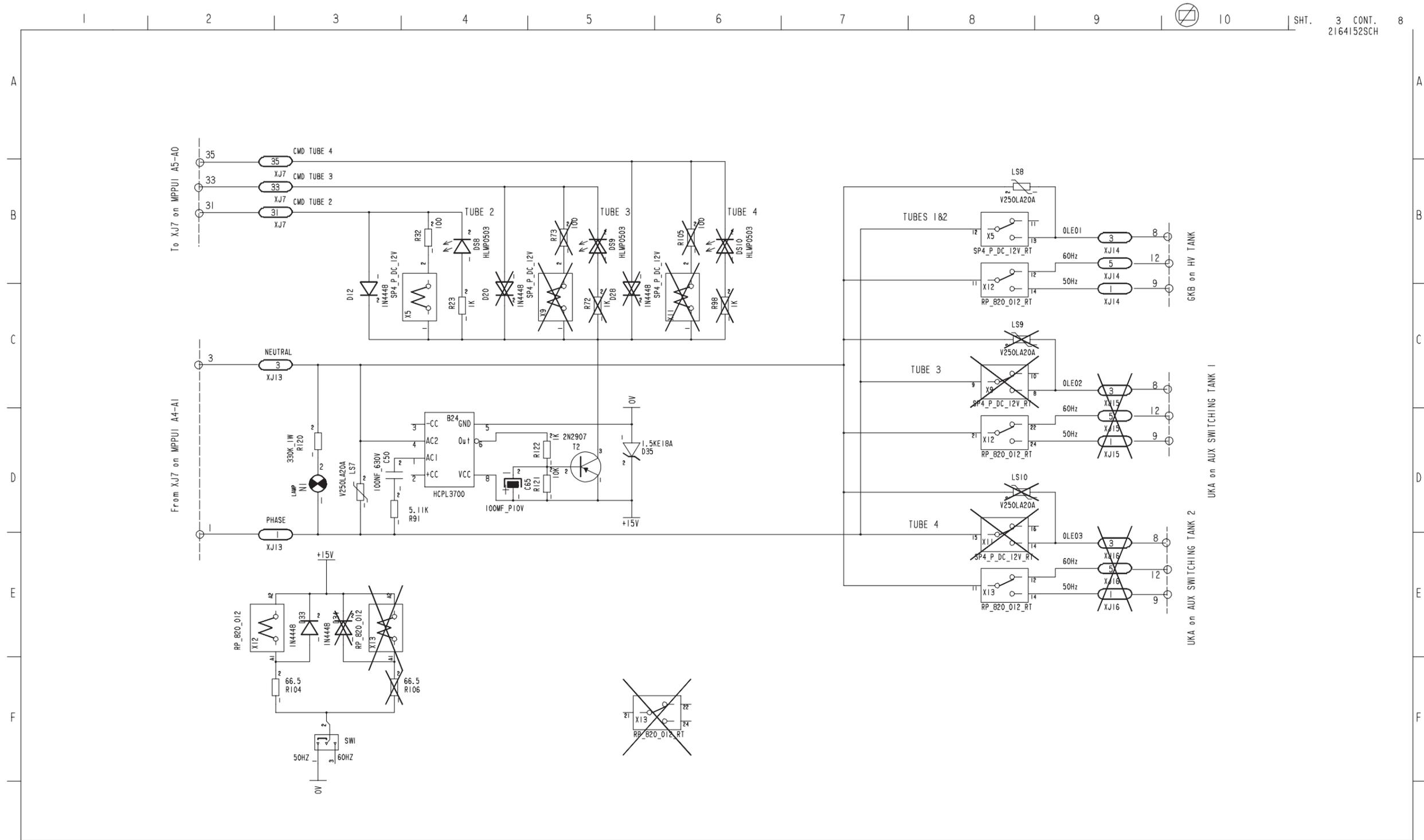


TO XJ7 on MPPUI A5-A0

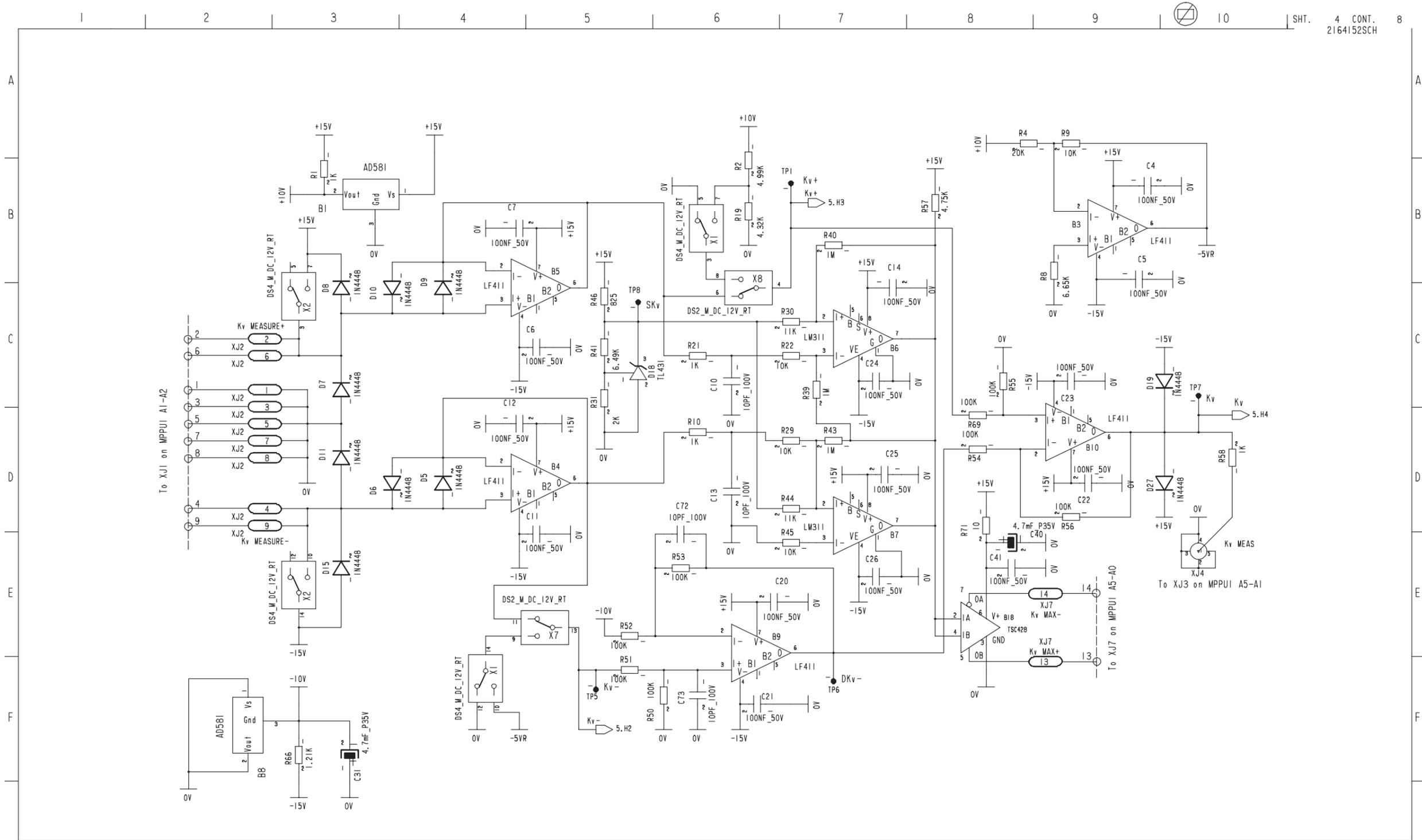
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REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE ASSE	DATE 25-06-96	DESIGN TITLE MEASURE AND COMMUTATION		
MADE BY	NAME	DATE DD/MM/YY	CHECK DURVILLE	DATE 25-06-96	FIRST MADE FOR VAMP		
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR ENCELLAZ	DATE 25-06-96	DRAWING NO. 2164152SCH		
MADE BY	NAME	DATE DD/MM/YY	OTHER	DATE	REV B	SIZE 3	SHT/CONT. ON 1 / 8



BLOCK PATHNAME				BLOCK SHT				DESIGN TITLE			
\$PROJECT VAMP/mesplu_v4 ASM/mesplu_v4				2 OF 8				MEASURE AND COMMUTATION			
REV 1	PCN XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE ASSE	DATE 25-06-96	GE Medical Systems		FIRST MADE FOR	VAMP		
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	CHECK DURVILLE	DATE 25-06-96	BUC - FRANCE		DRAWING NO.	REV B	SIZE 3	SHT/CONT. ON 2 / 8
REV 2	PCN XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR ENCELLAZ	DATE 25-06-96			2164152SCH			
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	OTHER	DATE						

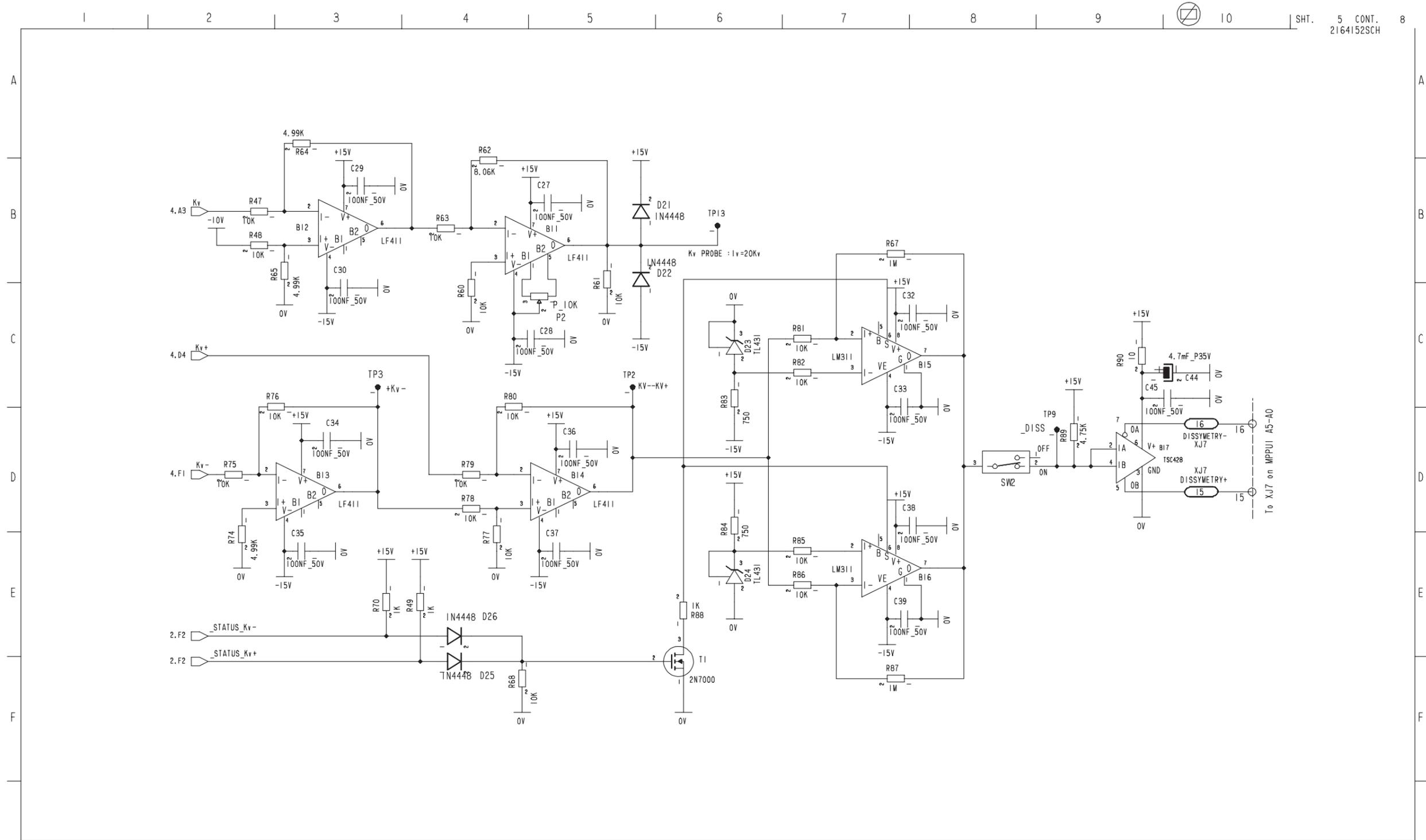


BLOCK PATHNAME \$PROJECT_VAMP/mesplu_v4_ASM/mesplu_v4				BLOCK SHT 3 OF 8			
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE ASSE	DATE 25-06-96	DESIGN TITLE MEASURE AND COMMUTATION		
MADE BY	NAME	DATE DD/MM/YY	CHECK DURVILLE	DATE 25-06-96	FIRST MADE FOR VAMP		
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR ENCELLAZ	DATE 25-06-96	DRAWING NO. 2164152SCH		
MADE BY	NAME	DATE DD/MM/YY	OTHER	DATE	REV B	SIZE 3	SHT/CONT. ON 3 / 8

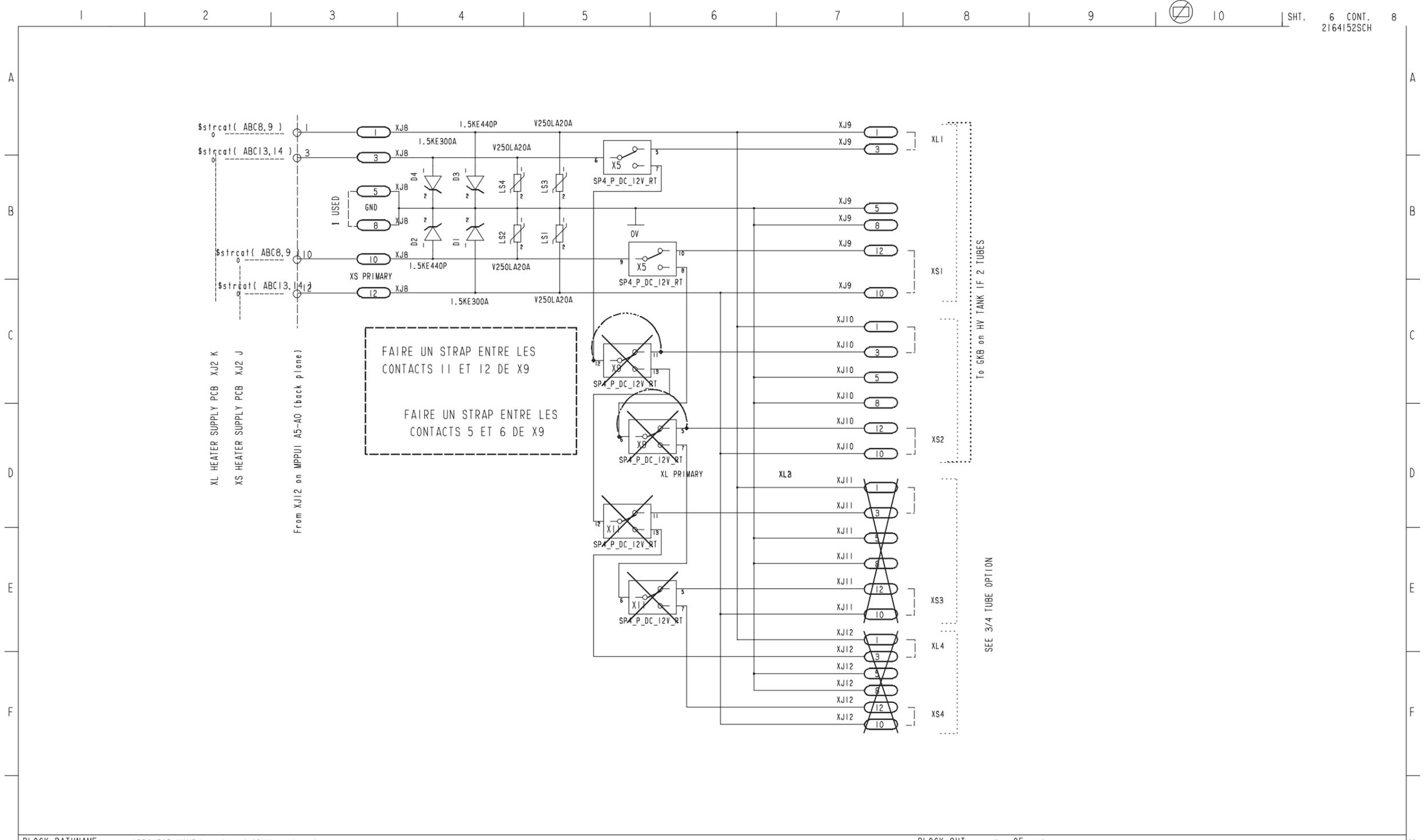


SHT. 4 CONT. 8
2164152SCH

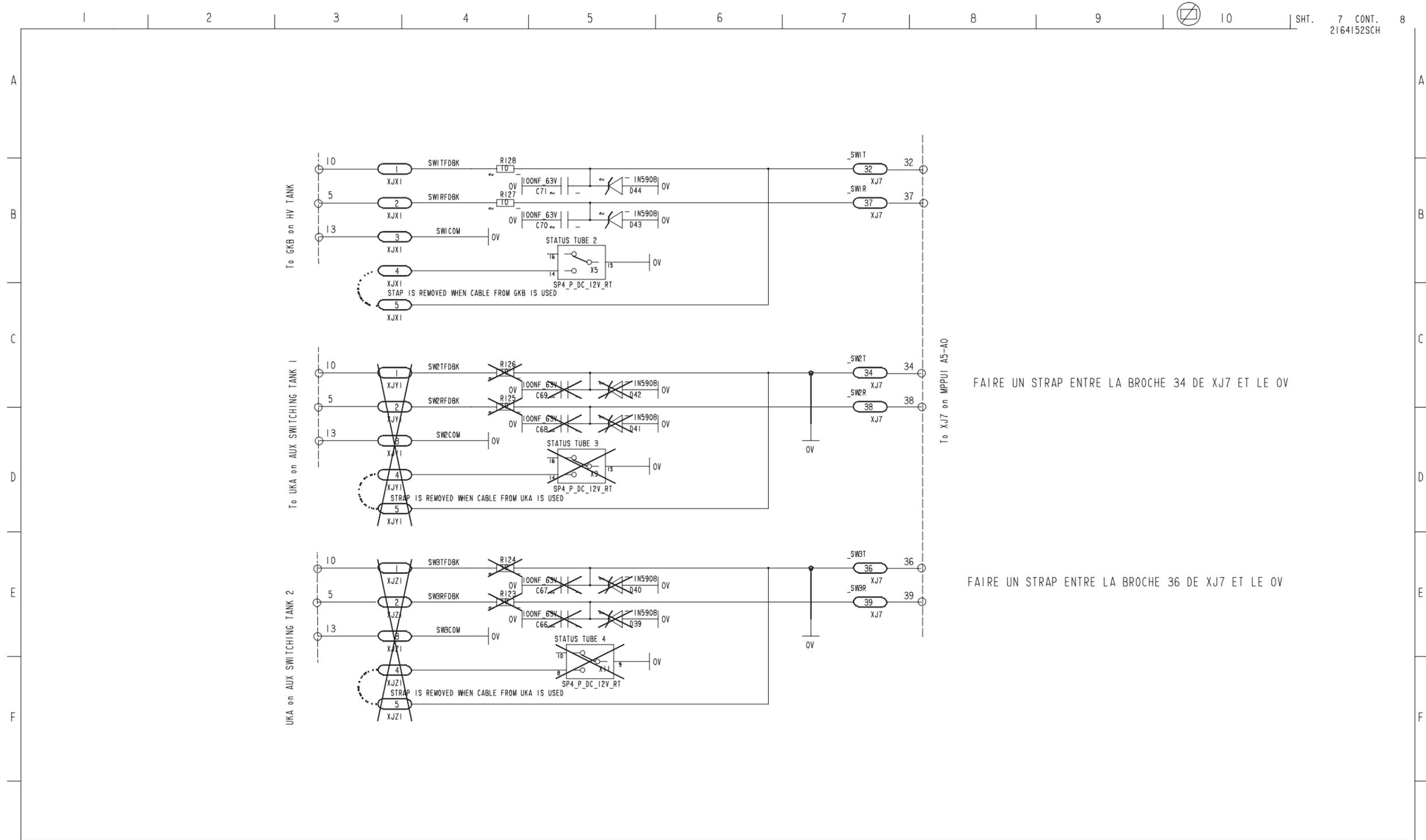
BLOCK PATHNAME \$PROJECT VAMP/mesplu_v4 ASM/mesplu_v4					BLOCK SHT 4 OF 8					
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE ASSE	DATE 25-06-96	GE Medical Systems			DESIGN TITLE MEASURE AND COMMUTATION		
MADE BY	NAME	DATE DD/MM/YY	CHECK DURVILLE	DATE 25-06-96	FIRST MADE FOR VAMP					
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR BY ENCELLAZ	DATE 25-06-96	BUC - FRANCE			DRAWING NO. 2164152SCH		
MADE BY	NAME	DATE DD/MM/YY	OTHER	DATE				REV B	SIZE 3	SHT/CONT. ON 4 / 8



BLOCK PATHNAME \$PROJECT_VAMP/mesplu_v4_ASM/mesplu_v4				BLOCK SHT 5 OF 8							
REV 1	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE	ASSE	DATE	25-06-96	DESIGN TITLE MEASURE AND COMMUTATION		
MADE BY	NAME		DATE	DD/MM/YY	CHECK	DURVILLE	DATE	25-06-96	FIRST MADE FOR VAMP		
REV 2	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR	ENCILLAZ	DATE	25-06-96	DRAWING NO. 2164152SCH		
MADE BY	NAME		DATE	DD/MM/YY	OTHER	....	DATE	.....	REV	SIZE	SHT/CONT. ON
									B	3	5 / 8



BLOCK PATHNAME \$PROJECT VAMP/mesplu_v4 ASM/mesplu_v4				BLOCK SHT 6 OF 8				DESIGN TITLE MEASURE AND COMMUTATION			
REV 1	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE	ASSE	DATE	25-06-96	FIRST MADE FOR VAMP		
MADE BY	NAME		DATE	DD/MM/YY	CHECK	DURVILLE	DATE	25-06-96	DRAWING NO. 2164152SCH		
REV 2	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR	ENCELLAZ	DATE	25-06-96	REV	SIZE	SHT/CONT. ON
MADE BY	NAME		DATE	DD/MM/YY	OTHER	....	DATE	.....	B	3	6 / 8



BLOCK PATHNAME \$PROJECT_VAMP/mesplu_v4_ASM/mesplu_v4				BLOCK SHT 7 OF 8			
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE ASSE	DATE 25-06-96	DESIGN TITLE MEASURE AND COMMUTATION		
MADE BY	NAME	DATE DD/MM/YY	CHECK DURVILLE	DATE 25-06-96	FIRST MADE FOR VAMP		
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR ENCELLAZ	DATE 25-06-96	DRAWING NO. 2164152SCH		
MADE BY	NAME	DATE DD/MM/YY	OTHER	DATE	GE Medical Systems	REV B	SIZE 3
					BUC - FRANCE	SHT/CONT. ON 7 / 8	

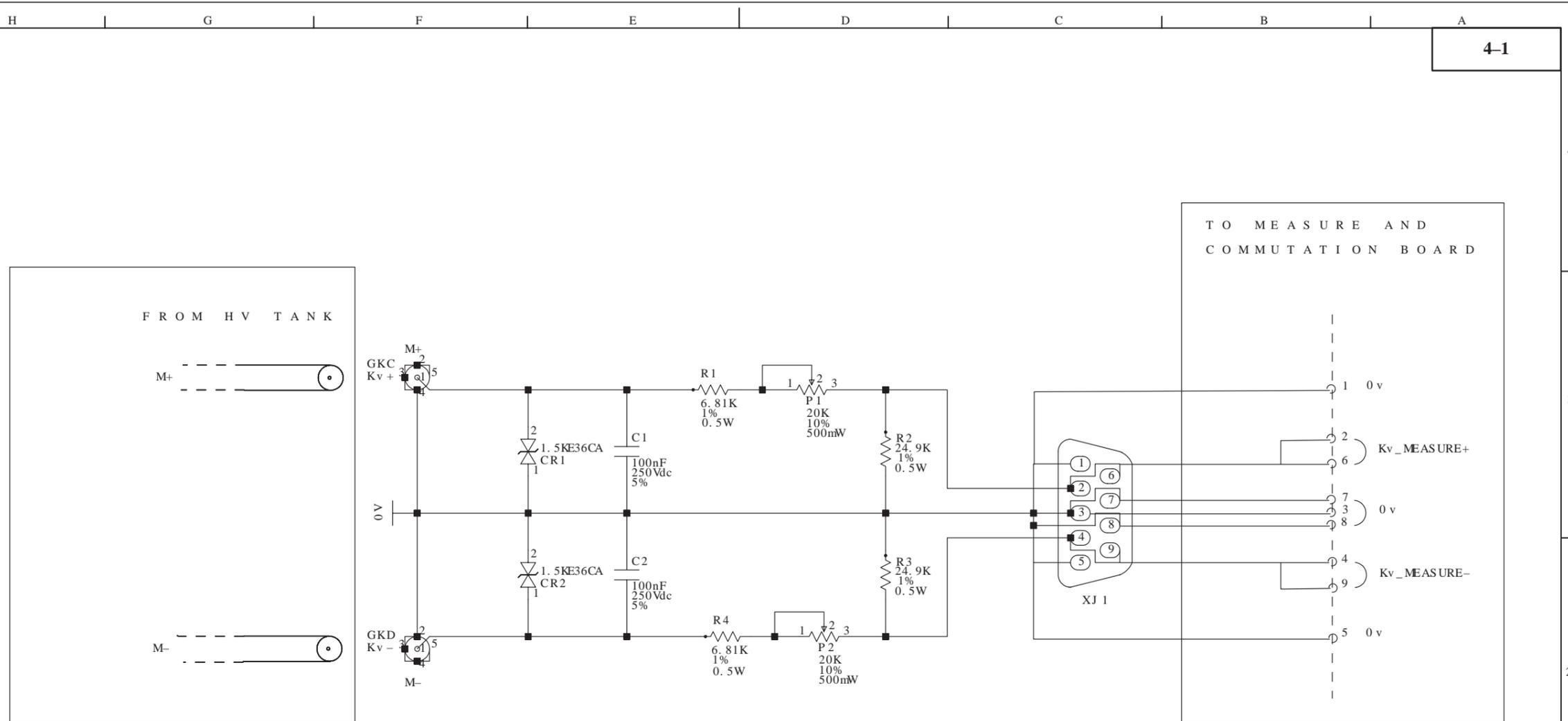


COMPOSANTS A SUPPRIMER :

Page	Repere	DESIGNATION	Quantite
3/8	X11, X9	RELAIS	2
		SP4-P-DC-12V	
	X13	RELAIS	1
		RP-820-012	
	D20, D28, D34	DIODES IN4448	3
	R105, R73	100 OHMS	2
	R98, R72	1 KOHMS	2
	R106	66,5 OHMS	1
	DS9, DS10	HLMP 0503	2
	XJ15, XJ16	Prises BURNDY	2
	LS9, LS10	V250 LA20 A	2
6/8	XJ11, XJ12	Prises BURNDY	2
7/8	XJY1, ZJZ1	Prises BURNDY	2
	XJZ1	BOUCHON	1
		36 004 536	
	XJY1	BOUCHON	1
		36 004 537	
R126, R125 R124, R123	Resistances 10 OHMS	4	
C66, C67 C68, C69	Ccondensateurs 10 NF 63V	4	
D39, D40 D41, D42	DIODES IN5908	4	

FAIRE UN STRAP ENTRE LES CONTACTS 5 ET 6 DE X9
 FAIRE UN STRAP ENTRE LES CONTACTS 11 ET 12 DE X9
 FAIRE UN STRAP ENTRE LA BROCHE 34 DE XJ7 ET LE OV
 FAIRE UN STRAP ENTRE LA BROCHE 36 DE XJ7 ET LE OV

BLOCK PATHNAME \$PROJECT VAMP/mesplu v4 ASM/mesplu v4				BLOCK SHT 900 OF 8			
REV 1	PCN	DESCRIPTION	DATE	MADE ASSE	DATE	DESIGN TITLE	MEASURE AND COMMUTATION
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	CHECK DURVILLE	DATE 25-06-96	FIRST MADE FOR VAMP	
REV 2	PCN	DESCRIPTION	DATE	APPR ENCELLAZ	DATE 25-06-96	DRAWING NO.	REV B
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	OTHER	DATE	2164152SCH	SIZE 3
						SHT/CONT. ON 8 / 8	

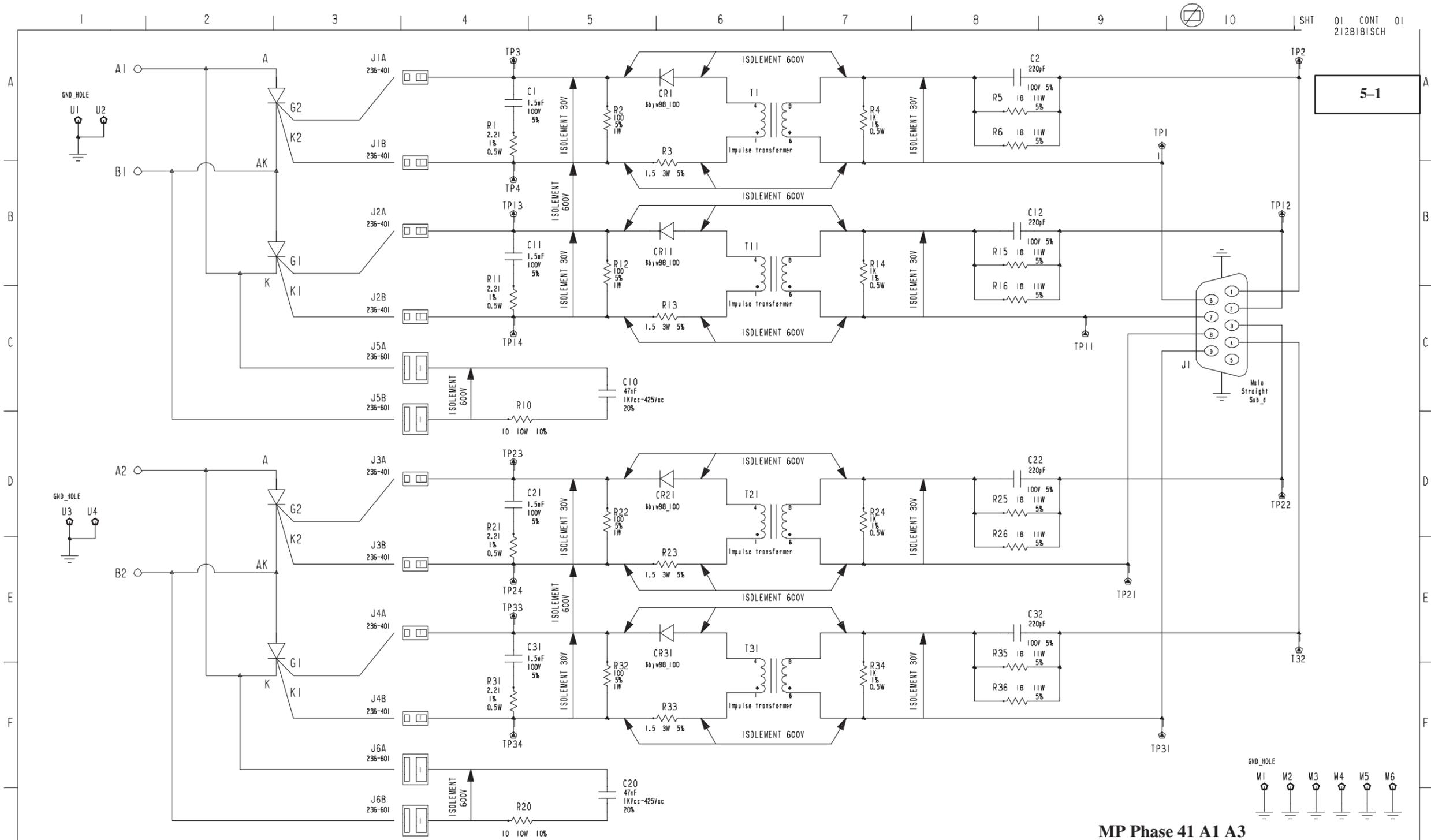


4-1

MP PHASE 41 A1 A2

COMMENTAIRE					Verif NO	09-07-92	Echelle	1/1	TITRE	HV_DIVIDER BOARD	mesukv. board	
					Ing Resp	PONCLOX	09-07-92			sheet 1 / 1		
					NUMERO DE LIEUEN							
					NUMERO D'ARTICLE		TYPE	FORMA	FEUILLE			
					3 6 0 0 4 6 8 2		0 3 0	3	N° Nbre 1/1			
												REV
												←

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MP Phase 41 A1 A3

BLOCK PATHNAME \$PROJET VAMP/quench_ASM/quench				BLOCK SHT 01 OF 01				DESIGN TITLE QUENCH				
REV 1	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE	ASSE	DATE	19-01-95	FIRST MADE FOR VAMP			
MADE BY	NAME		DATE	DD/MM/YY	CHECK	MENARD JP	DATE	19-01-95	DRAWING NO. 212B181SCH			
REV 2	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR	NAME	DATE	DD/MM/YY	REV	SIZE	SHT/CONT	ON
MADE BY	NAME		DATE	DD/MM/YY	OTHER	NAME	DATE	DD/MM/YY	A	3	01 / 01	

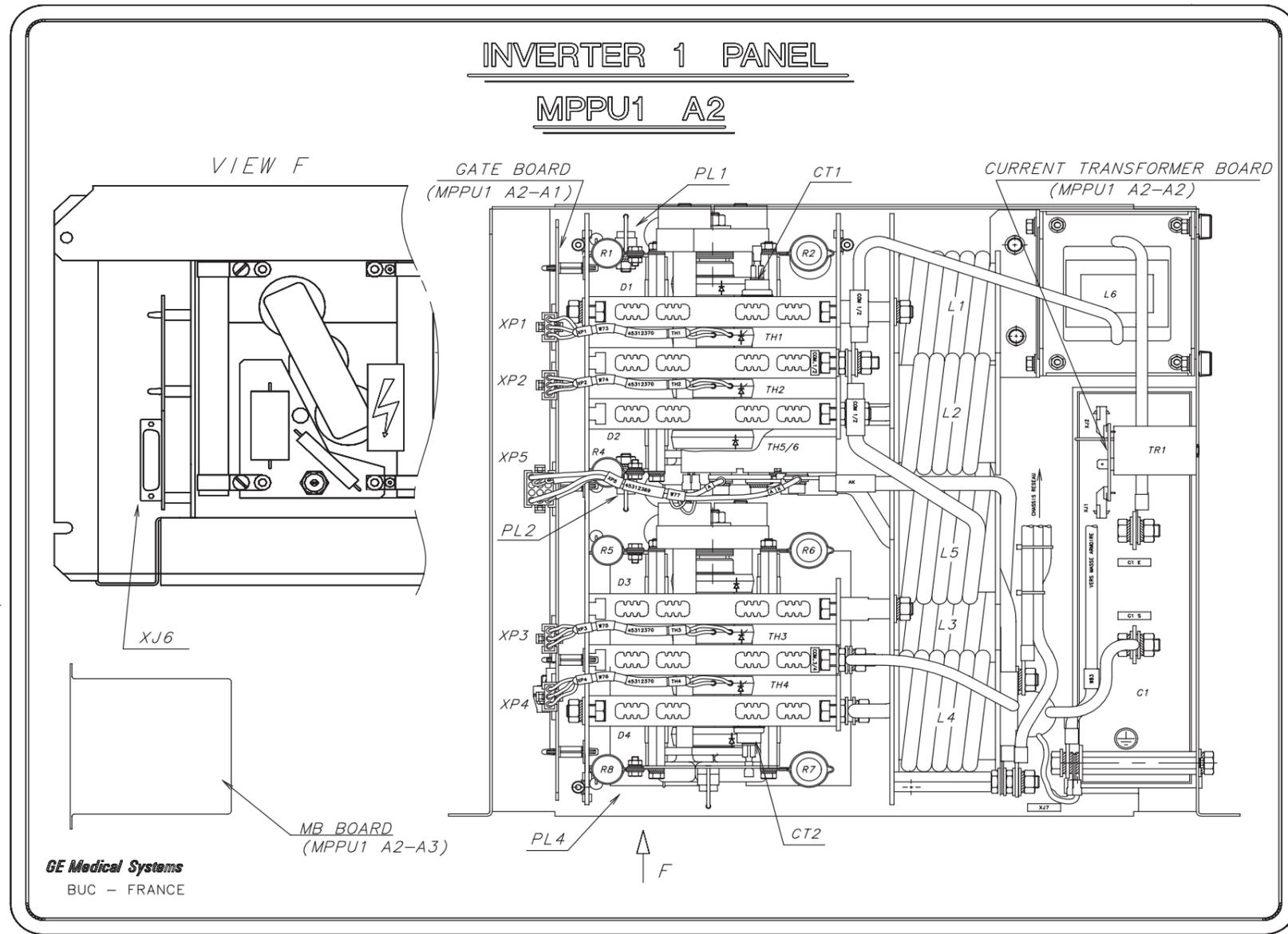
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REV	MODIFIE PAR	VERIFIE PAR	DATE	NUMERO DE DDM	DESCRIPTION
B	GECOM (PARENT)	MOUSSAY	06/04/95		MISE A JOUR ANNOTATIONS
A					CREATION

6-1

INVERTER 1 PANEL

MPPU1 A2



VIEW F

GATE BOARD
(MPPU1 A2-A1)

PL1

CT1

CURRENT TRANSFORMER BOARD
(MPPU1 A2-A2)

ETIQUETTE
(EHELLE1)

XJ6

MB BOARD
(MPPU1 A2-A3)

PL4

CT2

GE Medical Systems
BUC - FRANCE

MPPU1 A2

DEFINITION DE L'ETIQUETTE :

SUPPORT PVC EP:0,1
 IMPRESSION EN NOIR SUR FOND BLANC
 HAUTEUR DES CARACTERES CONFORME AU PLAN.
 CARACTERES TYPE HELVETICA MEDIUM CONDENSED.
 LES ETIQUETTES DOIVENT ETRE AGREES "CSA", "UL" ET "CEI".

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DISPOSITION DES VUES

TOLERANCES GENERALES

LONGUEUR ≤ 2M : ±0,02 M/M AVEC UN MINIMUM DE ±0,01M.
 LONGUEUR > 2M : ±0,04 M/M.

TITRE INVERTER 1 DOOR DIAGRAM MPPU PHASE 4 REV B
 PROJET GENERATEUR MP

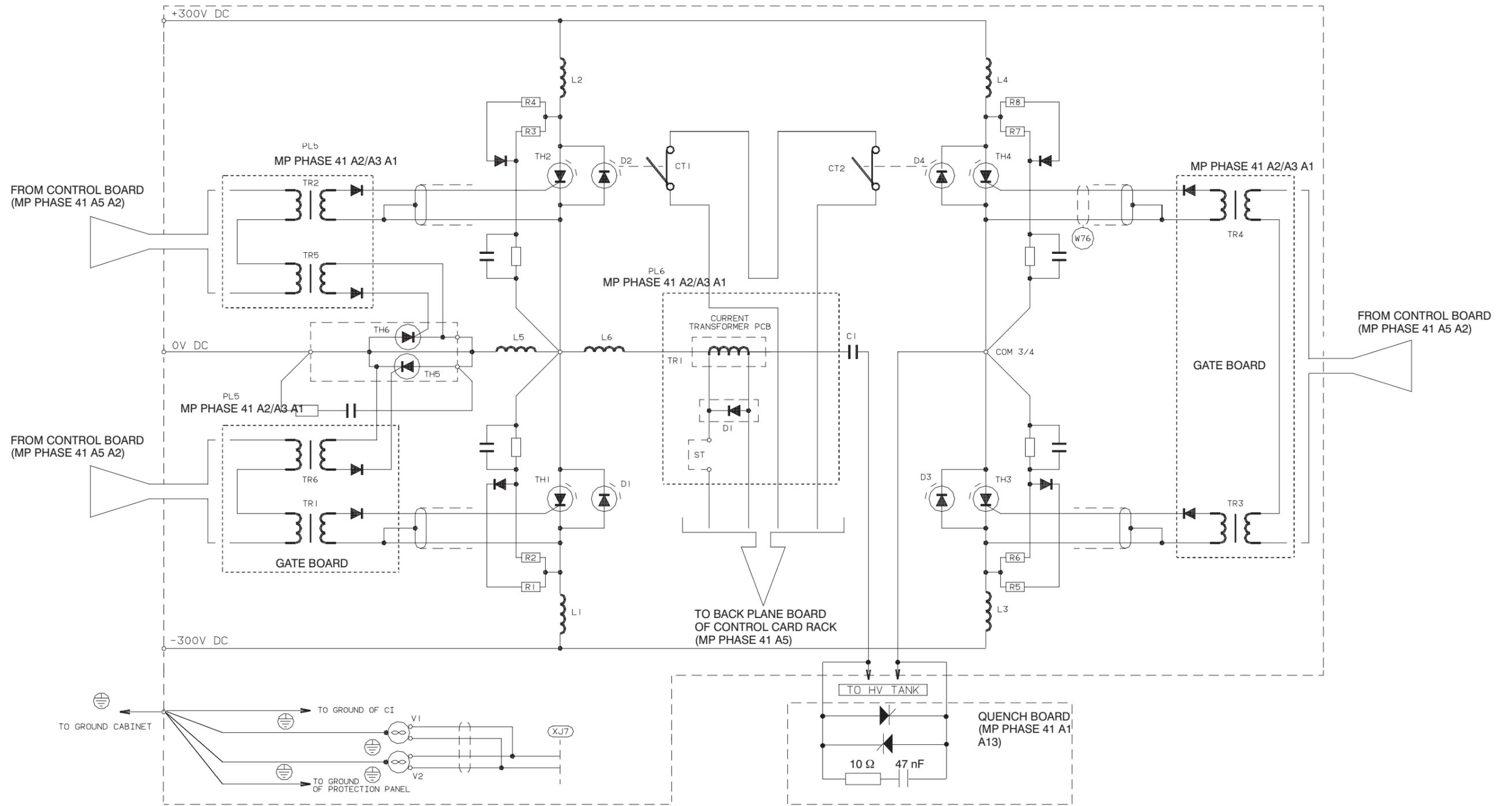
FAIT PAR GECOM 28/02/95
 VERIFIE PAR MOUSSAY 03/03/95

GE Medical Systems
 BUC - FRANCE

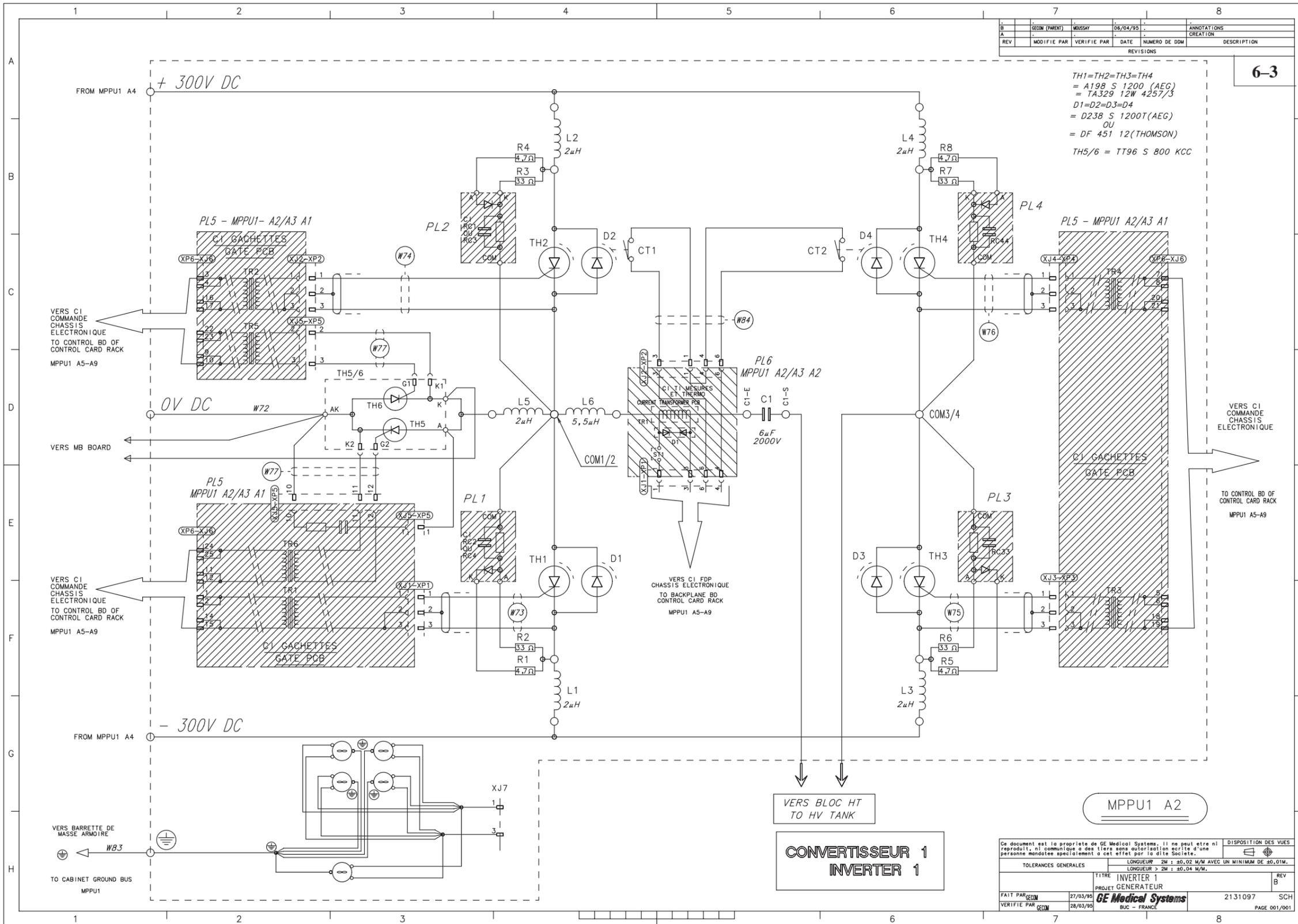
2131245 PSP
 PAGE 001/001

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MP PHASE 41 A3 – INVERTER 2 BLOCK DIAGRAM



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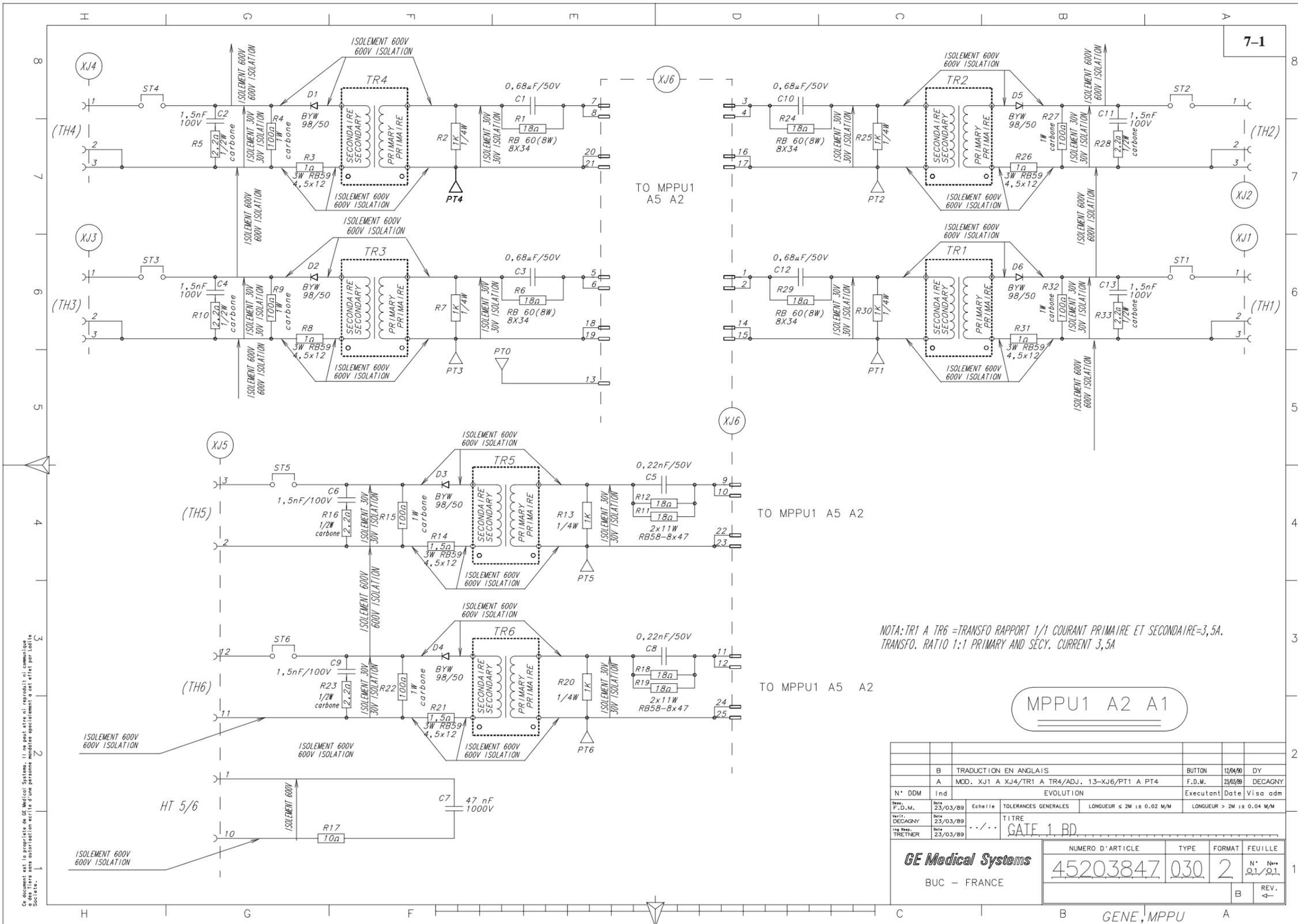
REV	MODIFIE PAR	VERIFIE PAR	DATE	NUMERO DE DDM	DESCRIPTION
B	GEOM (PARENT)	MAISSAY	06/04/95		ANNOTATIONS
A					CREATION

TH1=TH2=TH3=TH4
 = A198 S 1200 (AEG)
 = TA329 12W 4257/3
 D1=D2=D3=D4
 = D238 S 1200T(AEG)
 OU
 = DF 451 12(THOMSON)
 TH5/6 = TT96 S 800 KCC

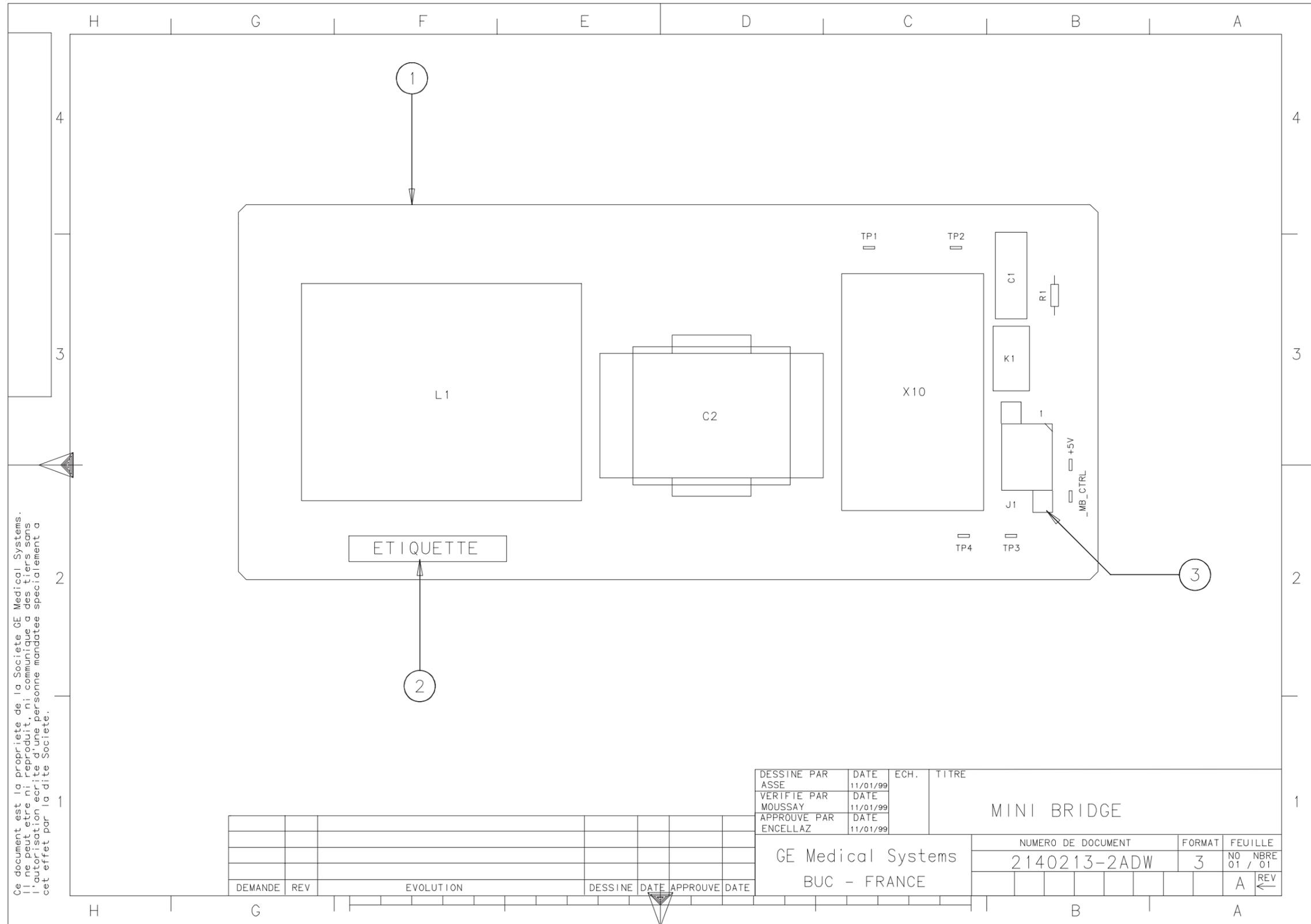
6-3

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TOLERANCES GENERALES		LONGUEUR 2M : ±0,02 M/M AVEC UN MINIMUM DE ±0,01M.
		LONGUEUR > 2M : ±0,04 M/M.
TITRE INVERTER 1		REV B
PROJET GENERATEUR		
FAIT PAR GEOM	27/03/95	2131097 SCH
VERIFIE PAR GEOM	28/03/95	PAGE 001/001

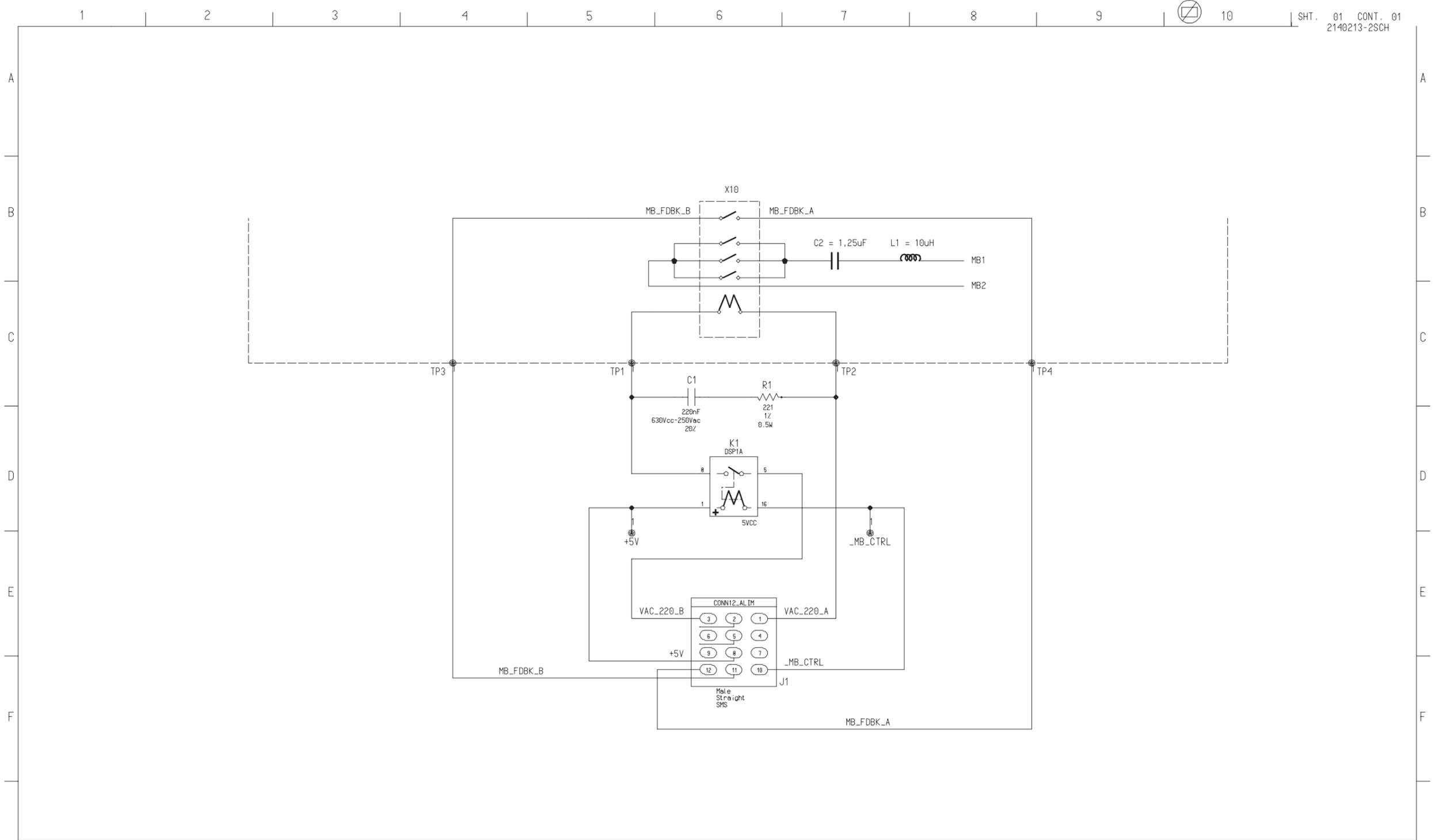
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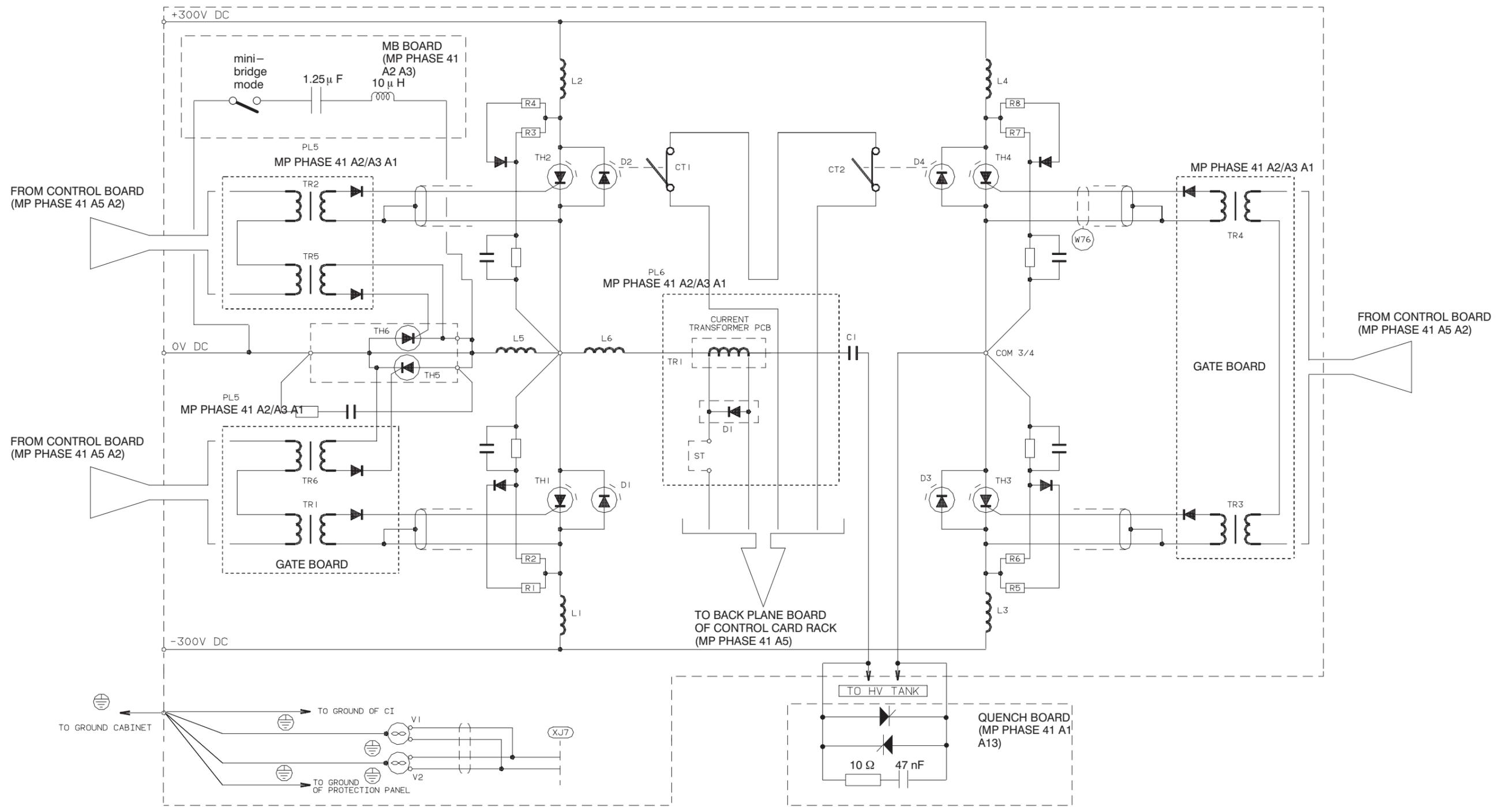


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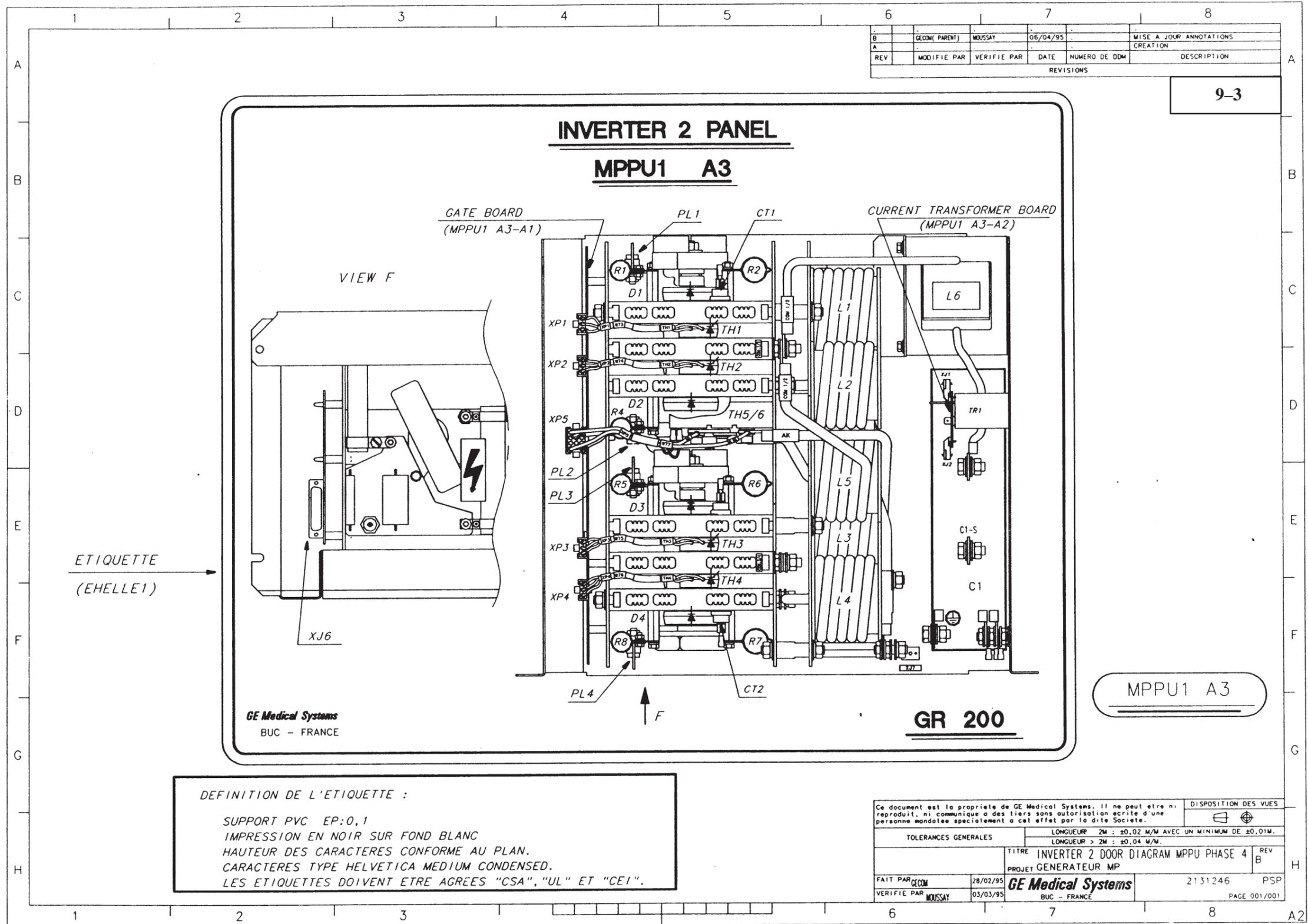


BLOCK PATHNAME \$PROJECT_VAMP/mb_v2b_ASM/mb_v2b				BLOCK SHT 01 OF 01			DESIGN TITLE MINI BRIDGE			
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE ASSE	DATE 11/01/99	FIRST MADE FOR VAMP				
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	CHECK MOUSSAY	DATE 11/01/99	GE Medical Systems				
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	APPR ENCELLAZ	DATE 11/01/99	BUC - FRANCE		DRAWING NO. 2140213-2SCH		
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	OTHER NAME	DATE DD/MM/YY	REV A	SIZE 3	SHT/CONT. ON 01 / 01		

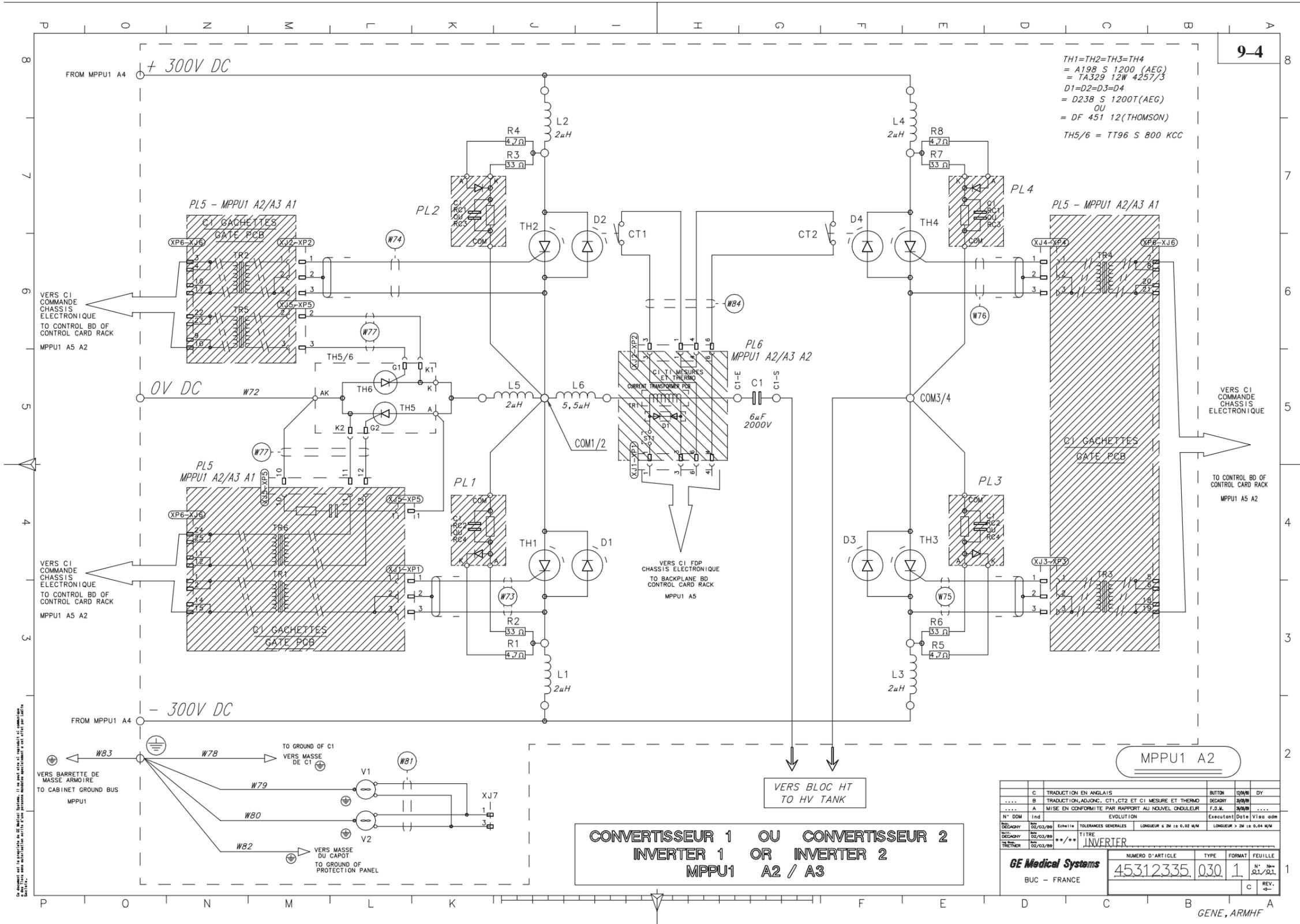
MP PHASE 41 A2 – INVERTER 1 BLOCK DIAGRAM



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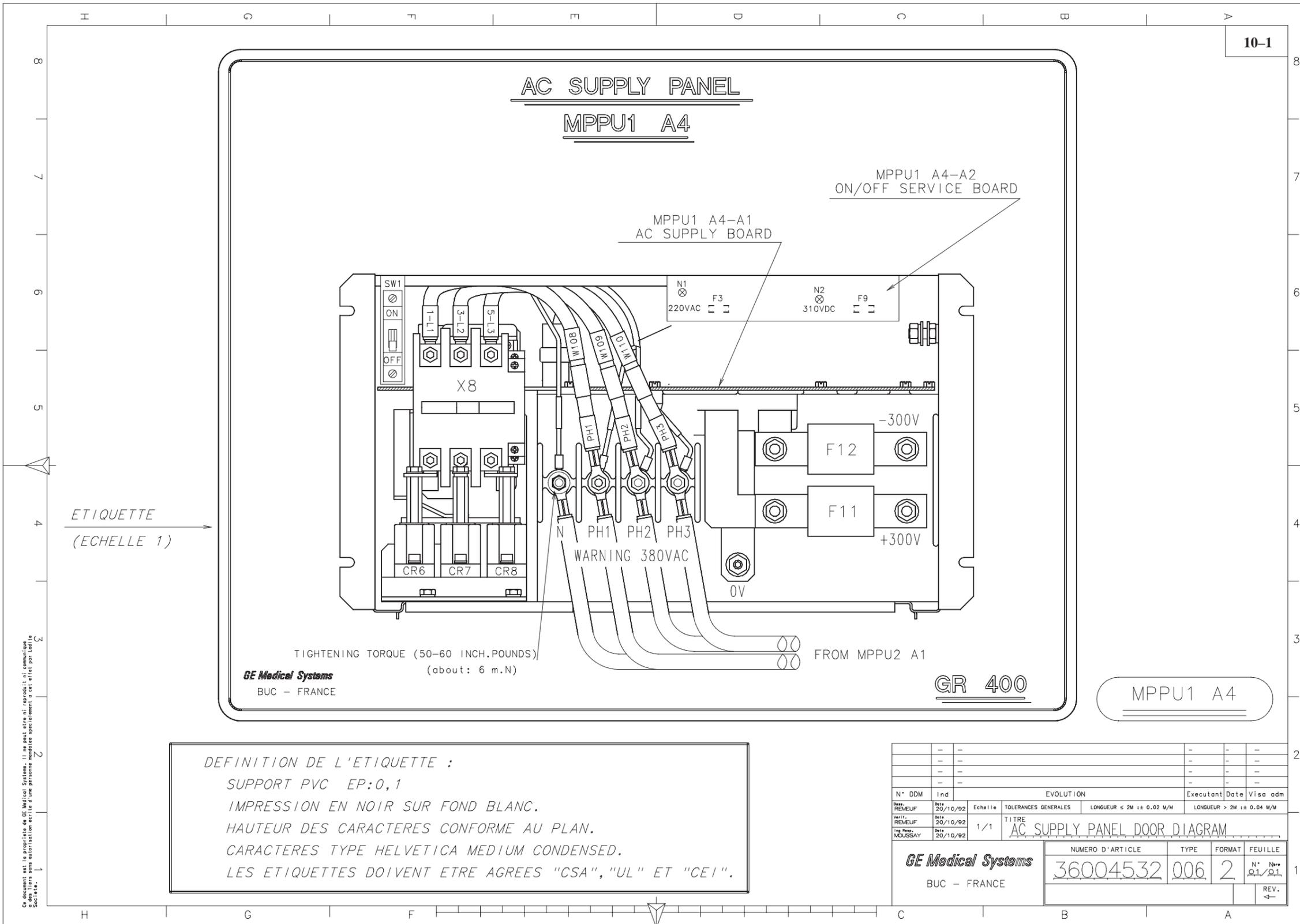


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C	TRADUCTION EN ANGLAIS	BITTON	15/08	DY
...	B	TRADUCTION, ADJONC. CT1, CT2 ET C1 MESURE ET THERMO	DECADY	30/08
...	A	MISE EN CONFORMITE PAR RAPPORT AU NOUVEL ONDULEUR	F.D.M.	30/08
N°	DDM	Ind	EVOLUTION	
DECADY	02/03/99	Echelle	TOLERANCES GENERALES LONGUEUR < 2M 12 0.02 MM LONGUEUR > 2M 12 0.04 MM	
DECADY	02/03/99	TITRE	INVERTER	
THOMSON	02/03/99	GE Medical Systems		
BUC - FRANCE		NUMERO D'ARTICLE	TYPE	FORMAT
		45312335	030	1
				FEUILLE
				N°
				01/01
				REV.
				c

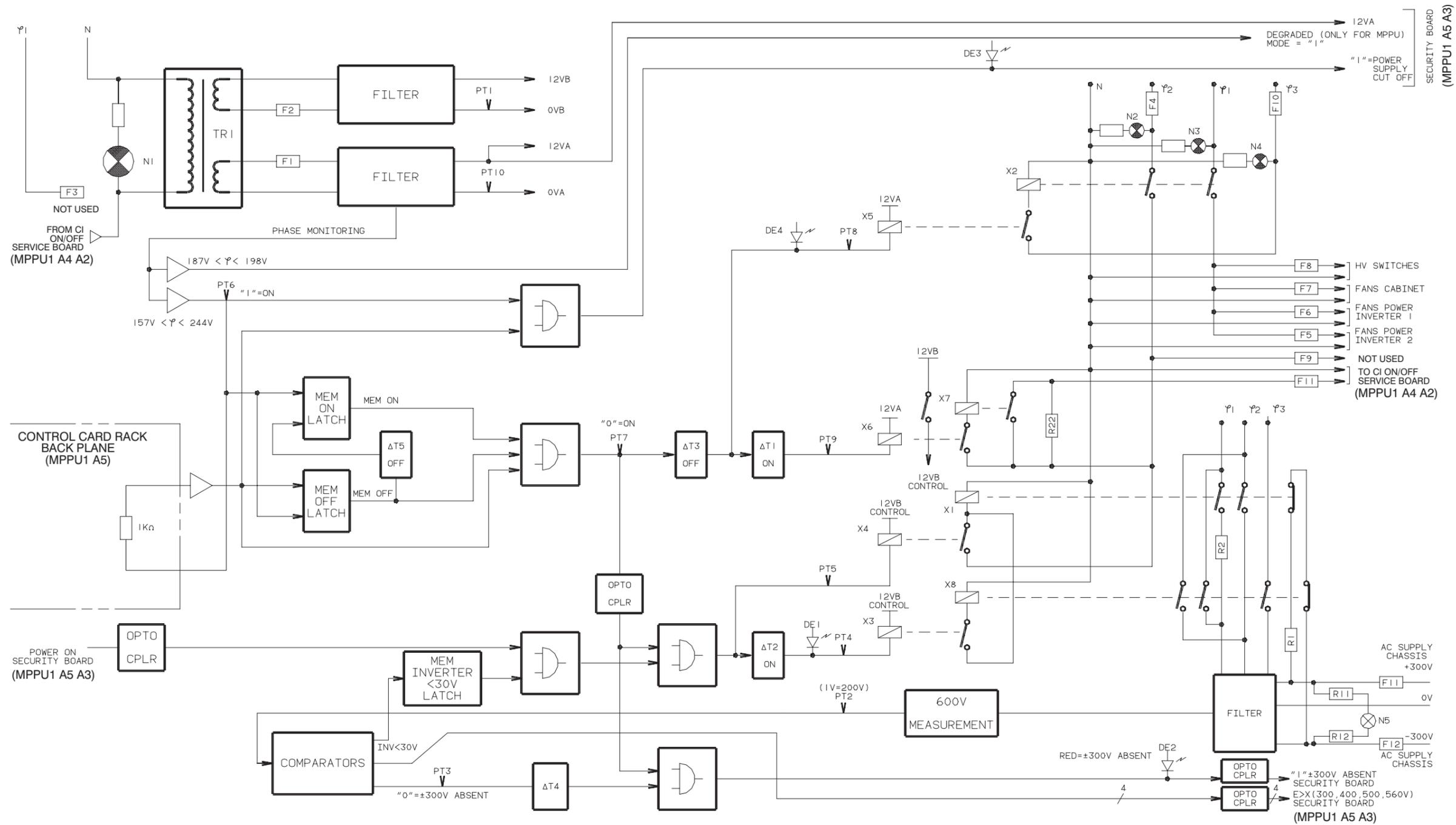
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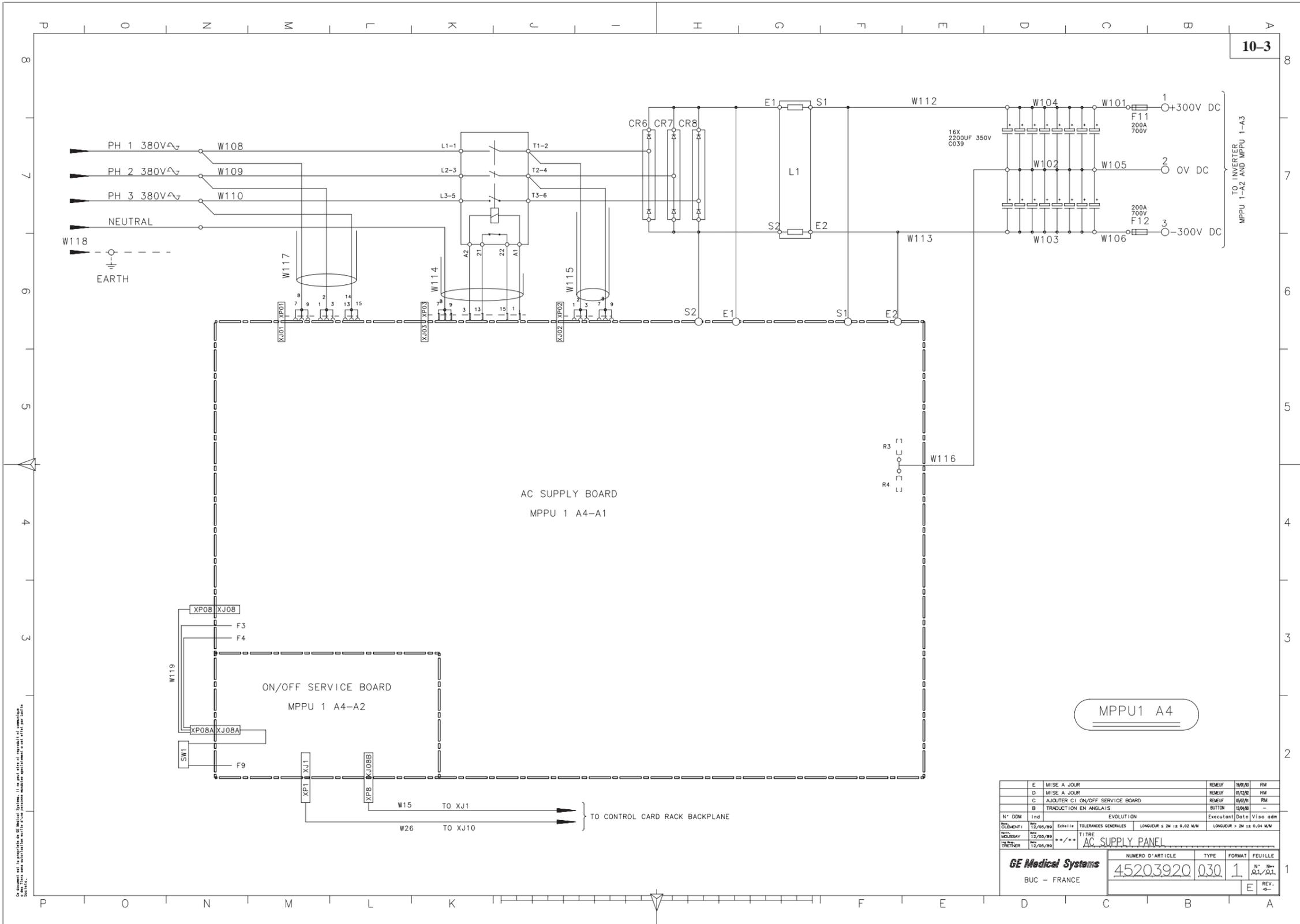
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MP PHASE 41 A4 – AC SUPPLY PANEL BLOCK DIAGRAM

10-2

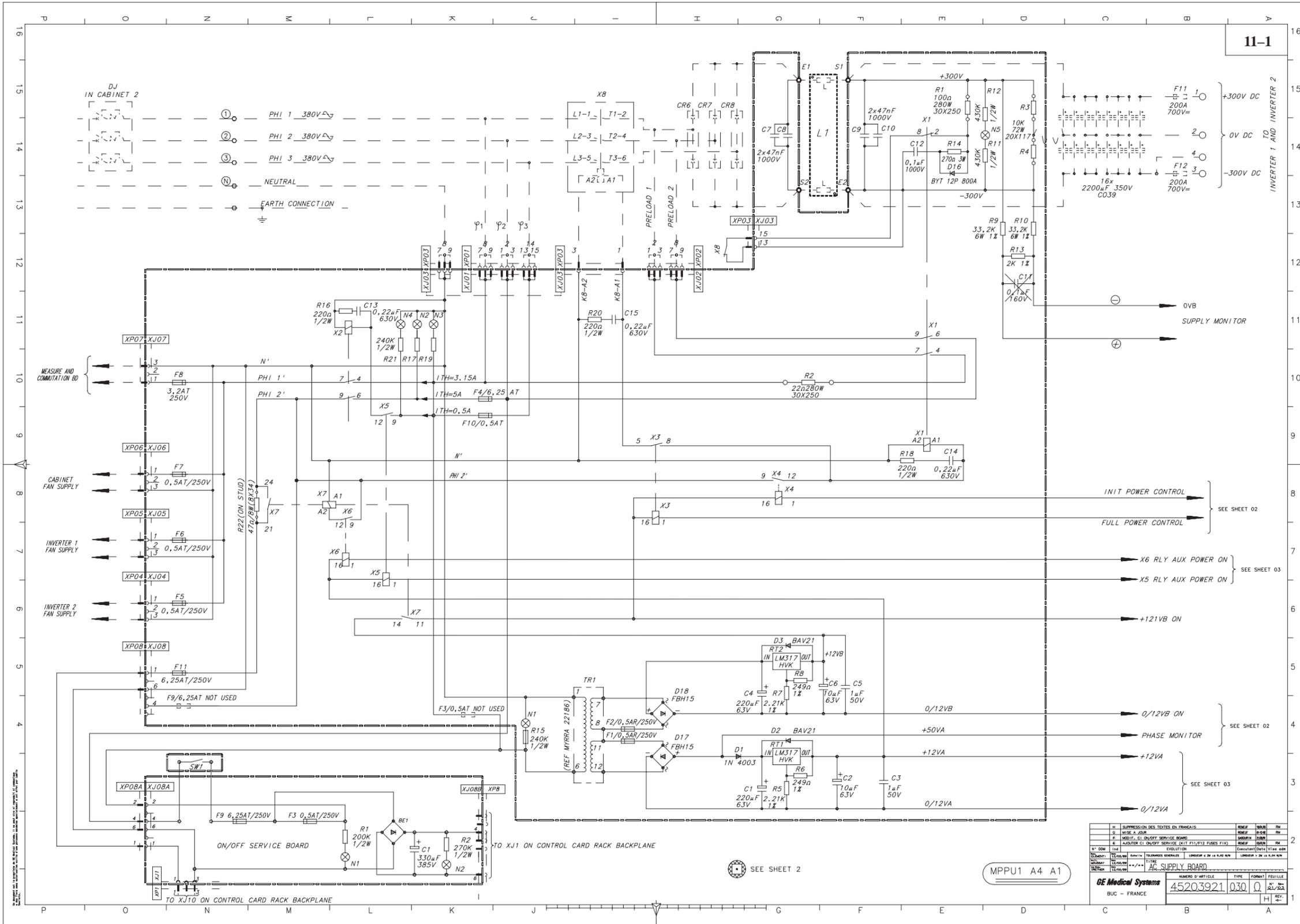


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E	MISE A JOUR	ROUEF	12/99	RM																																				
D	MISE A JOUR	ROUEF	07/98	RM																																				
C	AJOUTER C1 ON/OFF SERVICE BOARD	ROUEF	05/98	RM																																				
B	TRADUCTION EN ANGLAIS	BUTON	02/98	-																																				
<table border="1"> <tr> <th>N°</th> <th>DOM</th> <th>Ind</th> <th colspan="2">EVOLUTION</th> <th>Executent</th> <th>Date</th> <th>Visé</th> <th>adm</th> </tr> <tr> <td>12/05/99</td> <td>CLÉMENT</td> <td></td> <td>Echelle</td> <td>TOLERANCES GENERALES</td> <td></td> <td>LONGUEUR ≤ 2M ± 0.02 MM</td> <td></td> <td>LONGUEUR > 2M ± 0.04 MM</td> </tr> <tr> <td>12/05/99</td> <td>MOUSSAY</td> <td></td> <td>TITRE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12/05/99</td> <td>TRINIER</td> <td></td> <td>TITRE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					N°	DOM	Ind	EVOLUTION		Executent	Date	Visé	adm	12/05/99	CLÉMENT		Echelle	TOLERANCES GENERALES		LONGUEUR ≤ 2M ± 0.02 MM		LONGUEUR > 2M ± 0.04 MM	12/05/99	MOUSSAY		TITRE						12/05/99	TRINIER		TITRE					
N°	DOM	Ind	EVOLUTION		Executent	Date	Visé	adm																																
12/05/99	CLÉMENT		Echelle	TOLERANCES GENERALES		LONGUEUR ≤ 2M ± 0.02 MM		LONGUEUR > 2M ± 0.04 MM																																
12/05/99	MOUSSAY		TITRE																																					
12/05/99	TRINIER		TITRE																																					
GE Medical Systems BUC - FRANCE		NUMERO D'ARTICLE 45203920	TYPE 030	FORMAT 1	FEUILLE N° 01 / 01	REV. E	1																																	

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11-1

W	SUPPRESSION DES TEXTES EN FRANCAIS	REVIS	DATE	RM
S	NOUVEAU D'AJOUT	REVIS	DATE	RM
F	MODIF. CL ON/OFF SERVICE BOARD	REVIS	DATE	RM
E	AJOUTER CL ON/OFF SERVICE BOARD (ET F11/F12 FUSES FIXE)	REVIS	DATE	RM
N	NOUVEAU	REVIS	DATE	RM
TECHN	TECHNIQUE	REVIS	DATE	RM
DESIGN	DESIGN	REVIS	DATE	RM
TEST	TEST	REVIS	DATE	RM
APPROV	APPROUVE	REVIS	DATE	RM
DATE	DATE	REVIS	DATE	RM

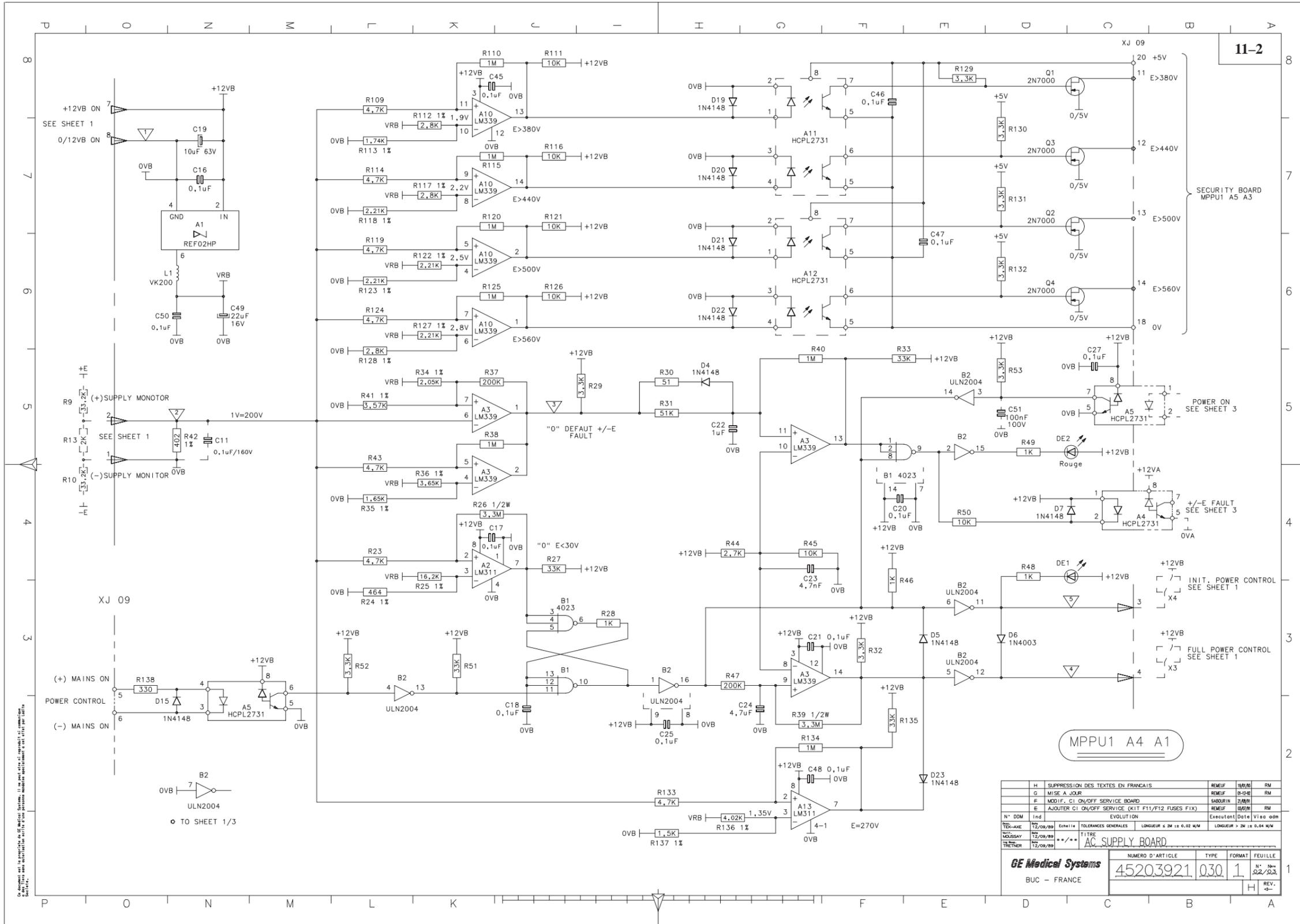
TITRE: AC SUPPLY BOARD

NUMERO D'ARTICLE: 45203921 030 Q

GE Medical Systems

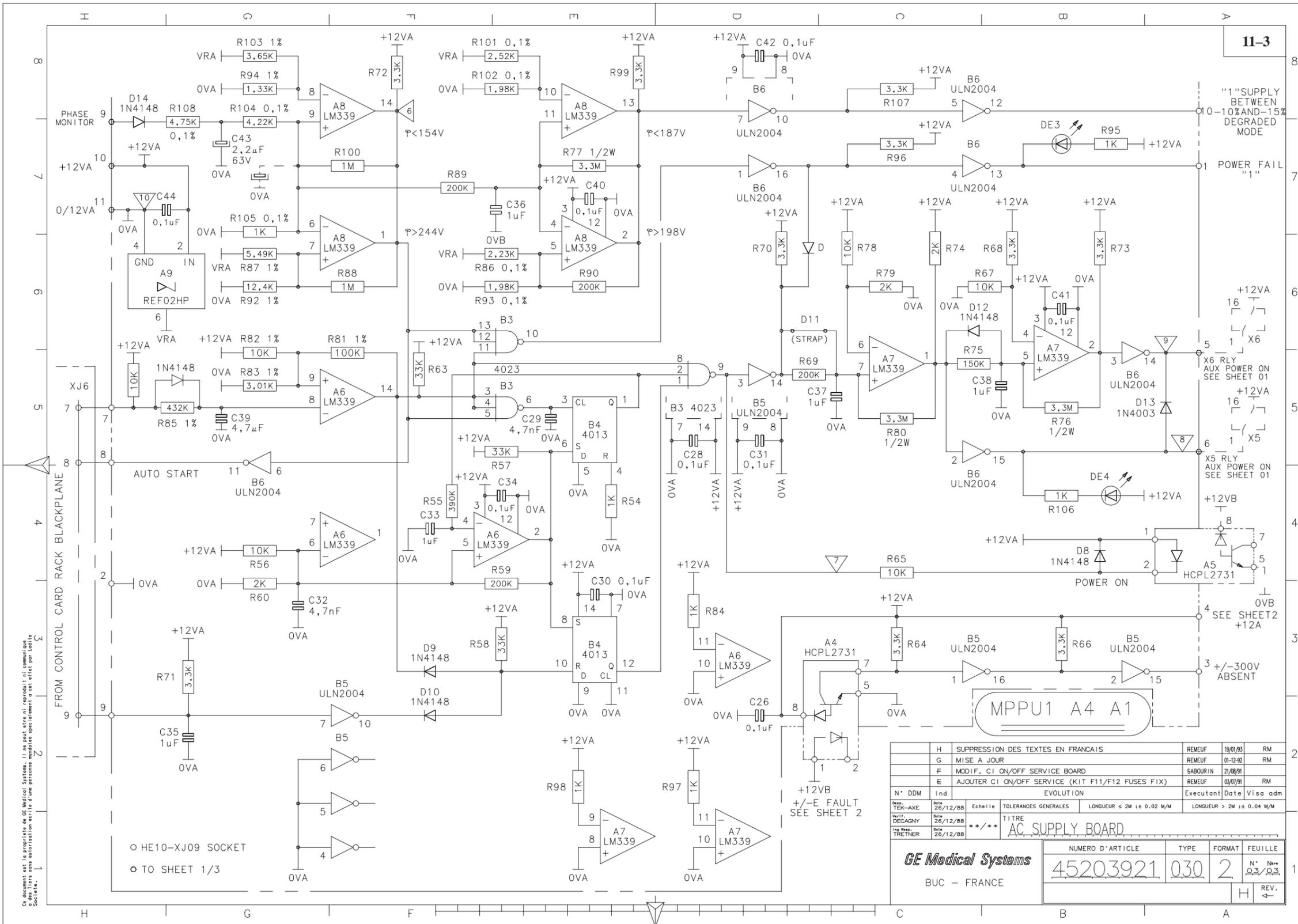
BUC - FRANCE

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HI	SUPPRESSION DES TEXTES EN FRANCAIS	REUF	RM/8	RM
G	WISE A JOUR	REUF	8-18	RM
E	MODIF. CI ON/OFF SERVICE BOARD	SABURIN	8/89	RM
E	AJOUTER CI ON/OFF SERVICE (KIT F11/F12 FUSES FIX)	REUF	8/89	RM
EVOLUTION				
N°	DDM	ind	Executeur	Date
12/09/89	MOUSSAY	12/09/89	12/09/89	12/09/89
TITRE				
AC SUPPLY BOARD				
TOLERANCES GENERALES				
LONGUEUR ≤ 2M ± 0,02 M/M				
LONGUEUR > 2M ± 0,04 M/M				
GE Medical Systems				
BUC - FRANCE				
NUMERO D'ARTICLE		TYPE	FORMAT	FEUILLE
45203921		030	1	N° 02/03
				REV. 9

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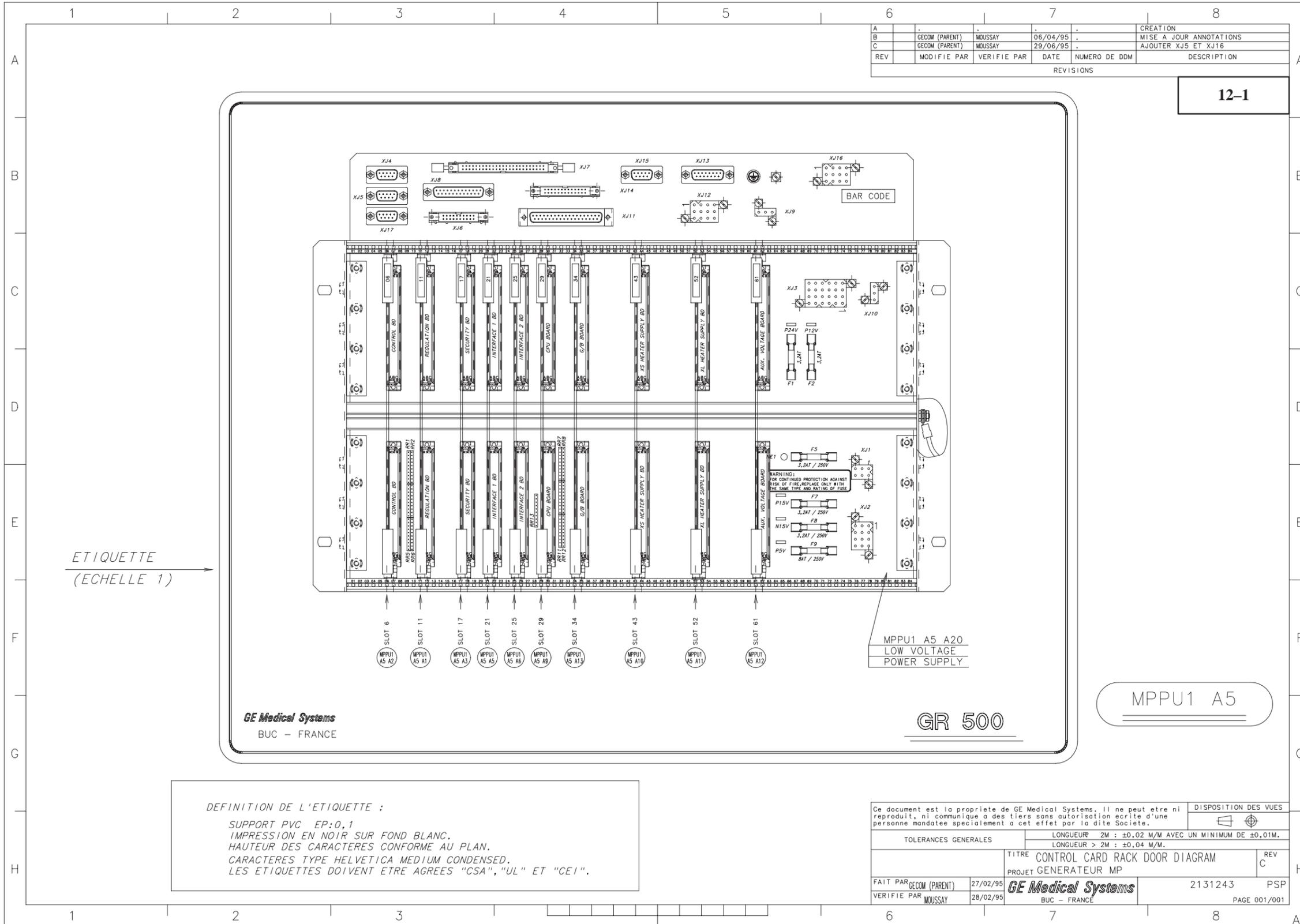
H	SUPPRESSION DES TEXTES EN FRANÇAIS	REMEUF	19/01/85	RM
G	MISE A JOUR	REMEUF	01-12-92	RM
F	MODIF. CI ON/OFF SERVICE BOARD	SABOURIN	21/08/91	RM
E	AJOUTER CI ON/OFF SERVICE (KIT F11/F12 FUSES FIX)	REMEUF	03/07/91	RM
N°	DDM	Ind	EVOLUTION	
Date	26/12/88	Echelle	TOLERANCES GENERALES LONGUEUR ≤ 2M ± 0.02 M/M	
Wurff	26/12/88	Date	LONGUEUR > 2M ± 0.04 M/M	
DECAGNY	26/12/88	Date	TITRE	
TRETNER	26/12/88	Date	AC SUPPLY BOARD	

GE Medical Systems BUC - FRANCE		NUMERO D'ARTICLE 45203921	TYPE 030	FORMAT 2	FEUILLE N° 03 / N° 03
				REV. ←	

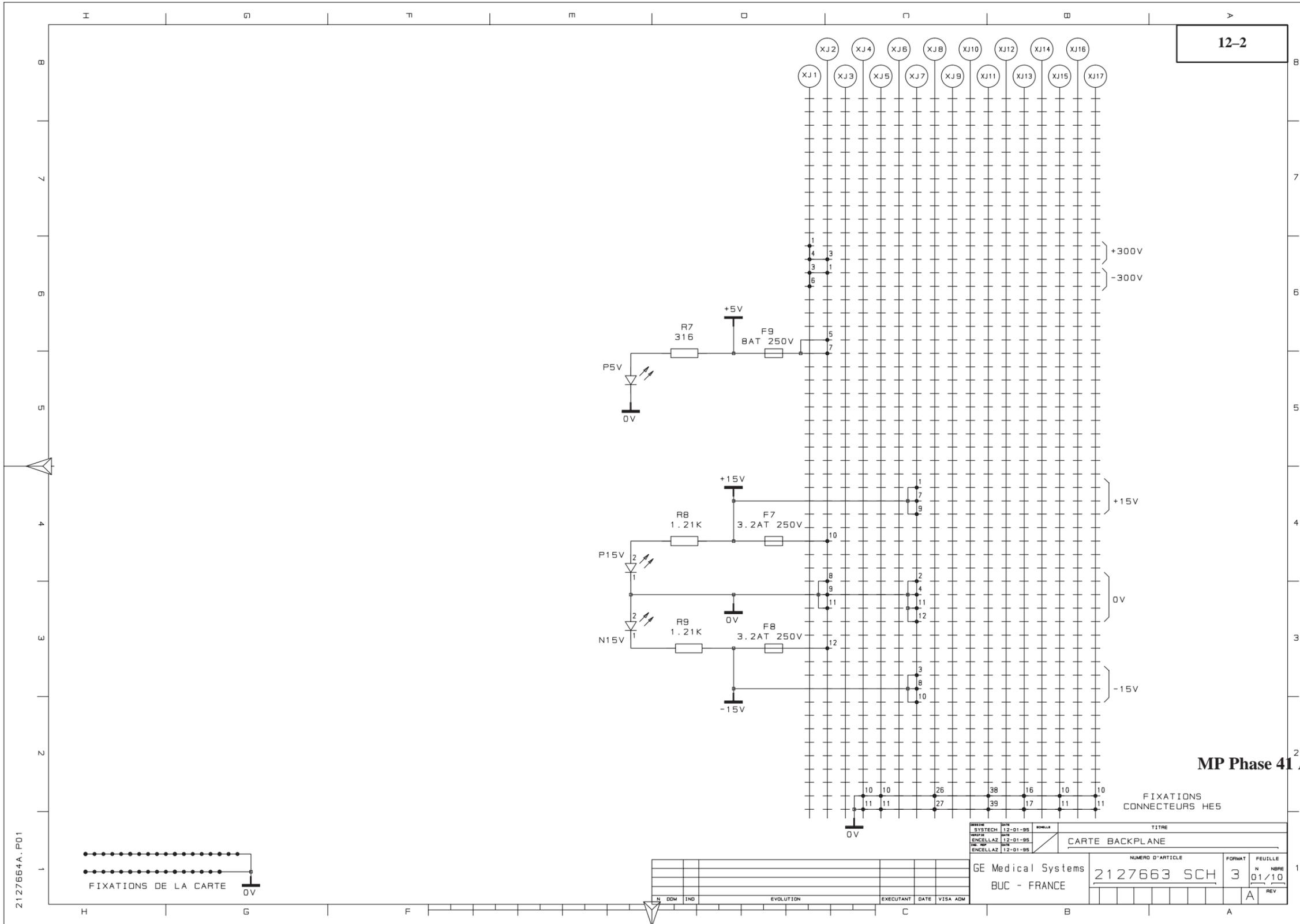
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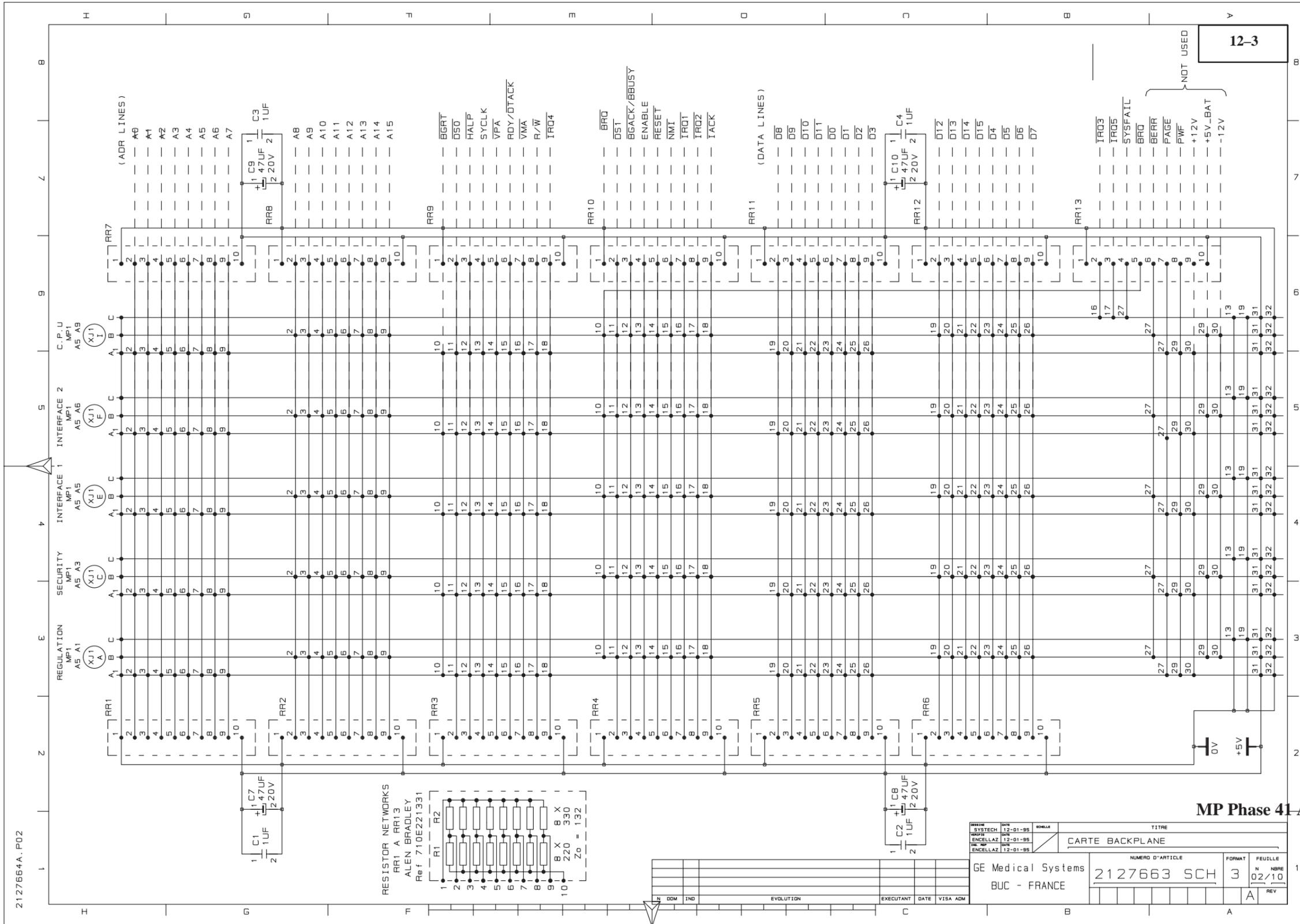
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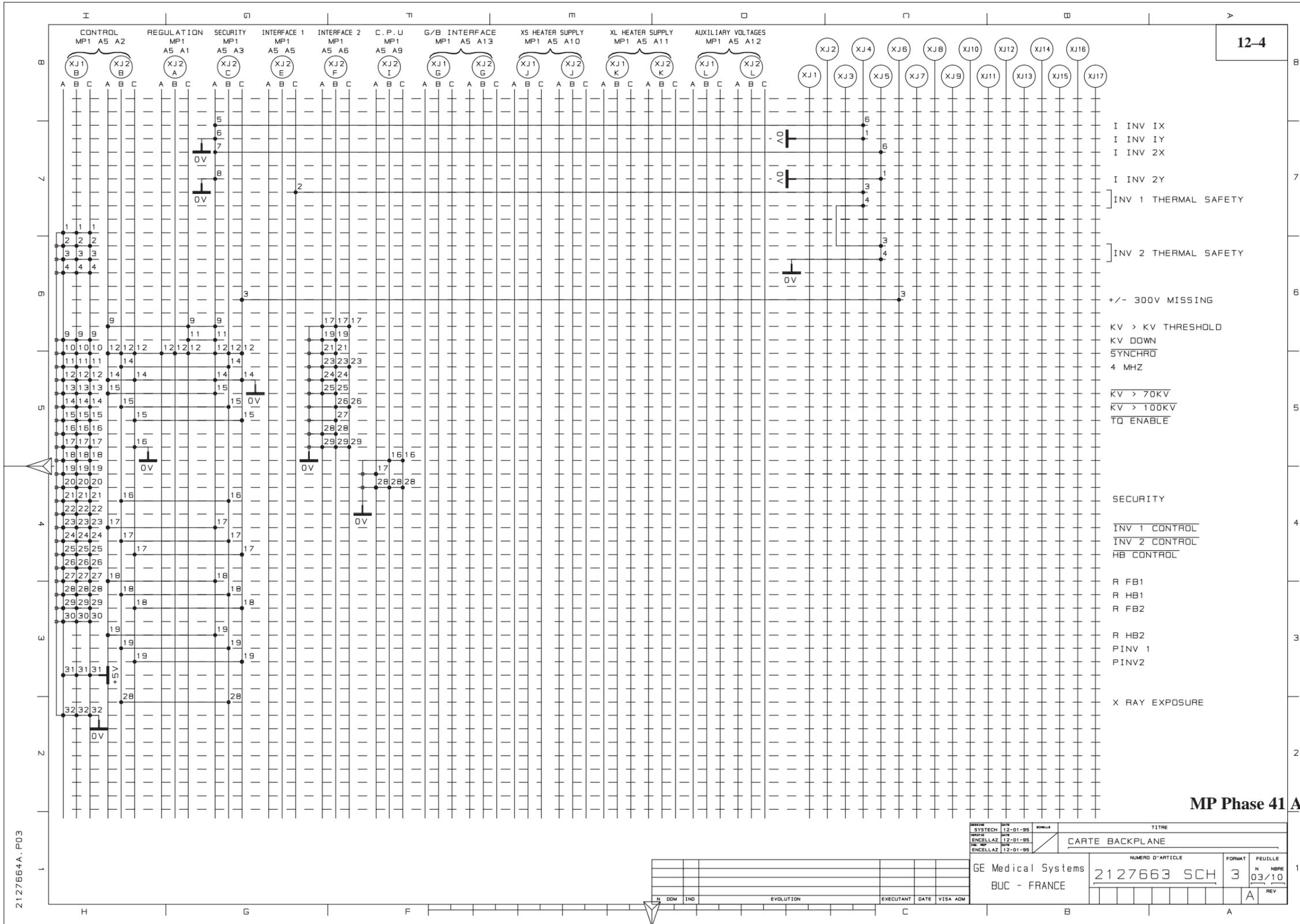


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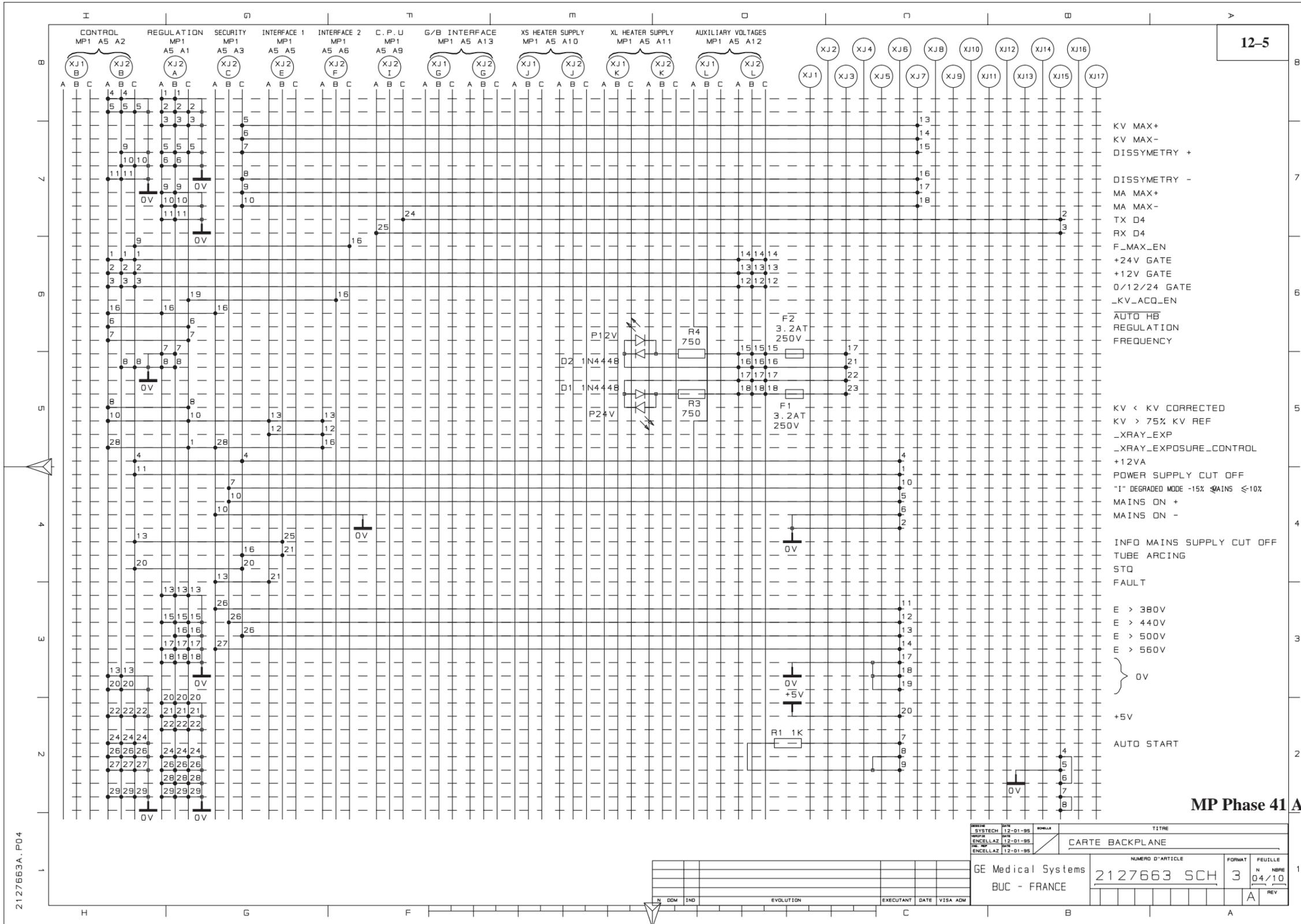


MP Phase 41-A5

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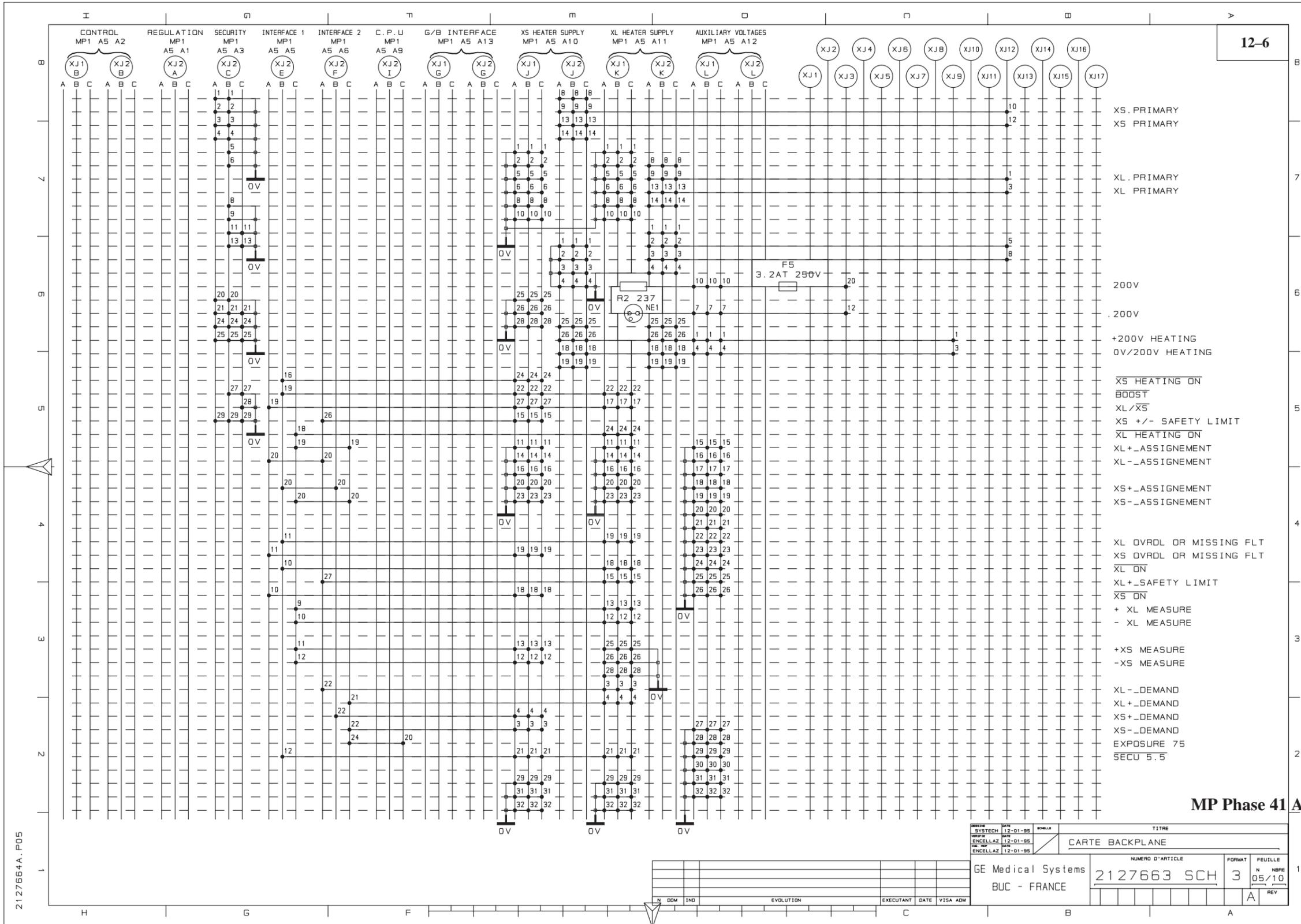
2127663A.P04

12-5

MP Phase 41 A5

REVISE	DATE	REVISION	TITRE
SYSTEME	12-01-95		CARTE BACKPLANE
ENCCELLAZ	12-01-95		
ENCCELLAZ	12-01-95		
GE Medical Systems		NOMERO D'ARTICLE	FORMAT
BUC - FRANCE		2127663 SCH	3
		FEUILLE	
		N	04/10
		REV	A

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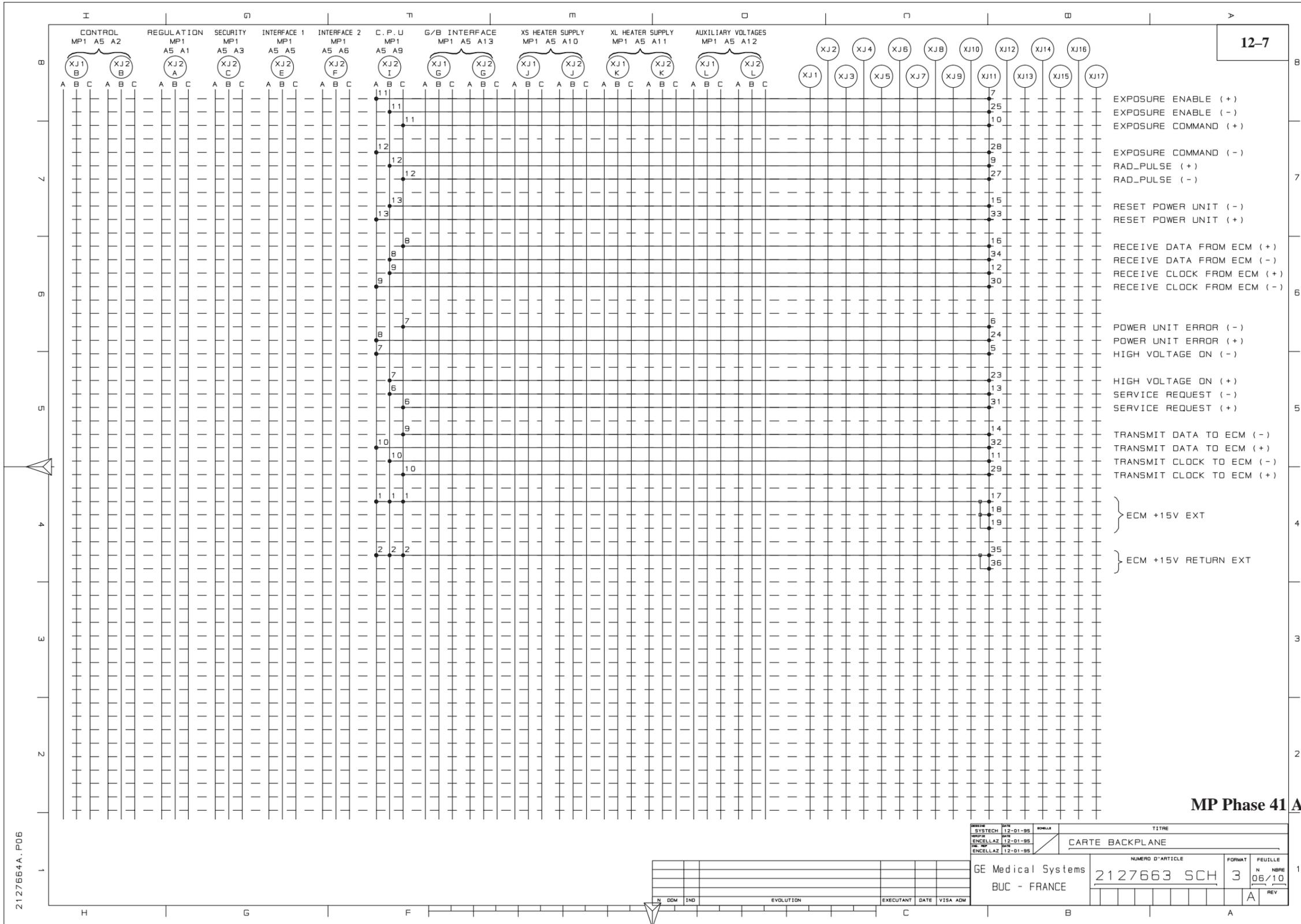
12-6

MP Phase 41 A5

2127664A.P05

REVISE	DATE	REVISION	TITRE
SYSTEME	12-01-95		CARTE BACKPLANE
REVISION	DATE		
ENCCELLAZ	12-01-95		
ENCCELLAZ	12-01-95		
GE Medical Systems		NOMERO D'ARTICLE	FORMAT
BUC - FRANCE		2127663 SCH	3
		FEUILLE	N°
			05/10
		REV	A

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12-7

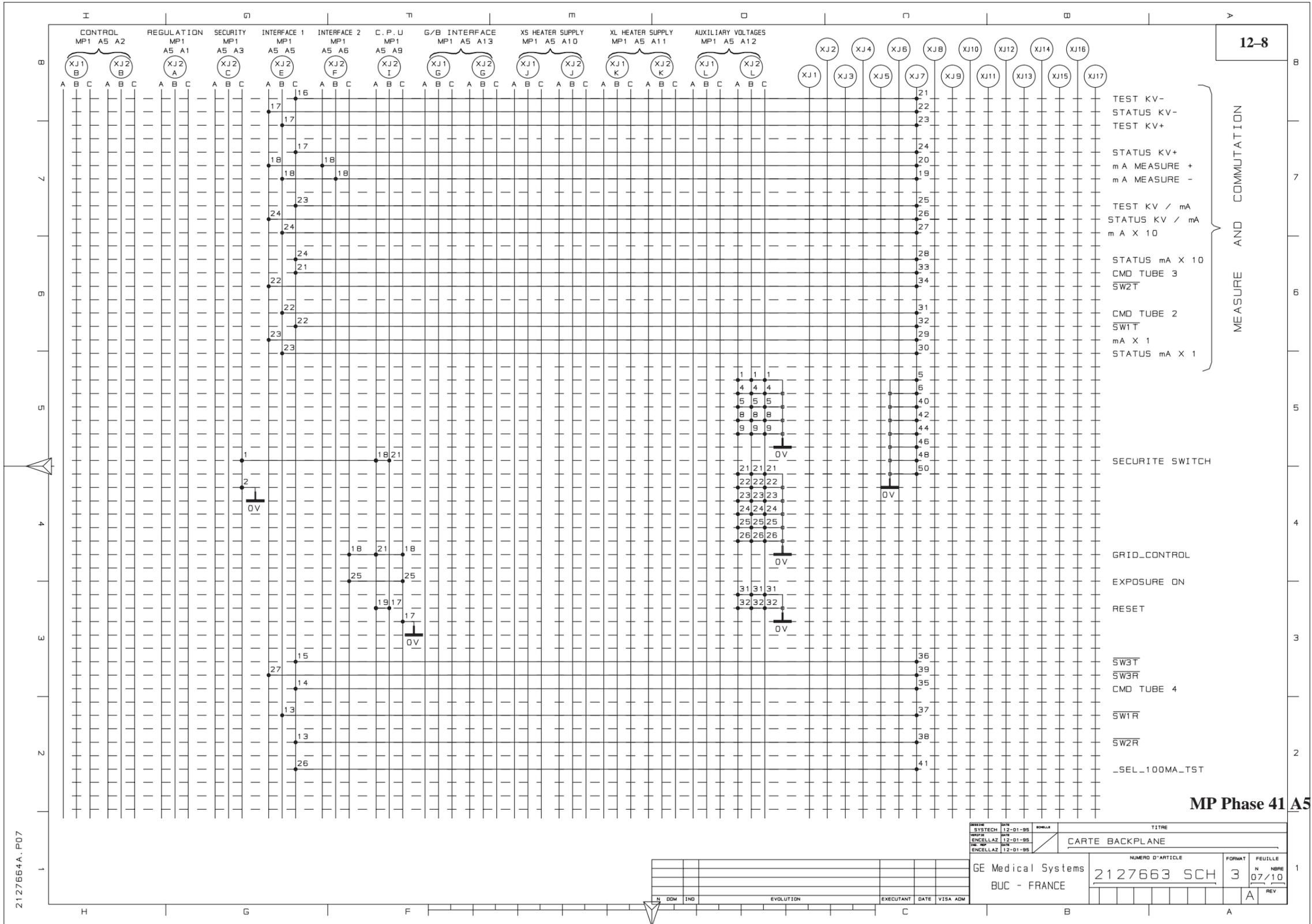
MP Phase 41 A5

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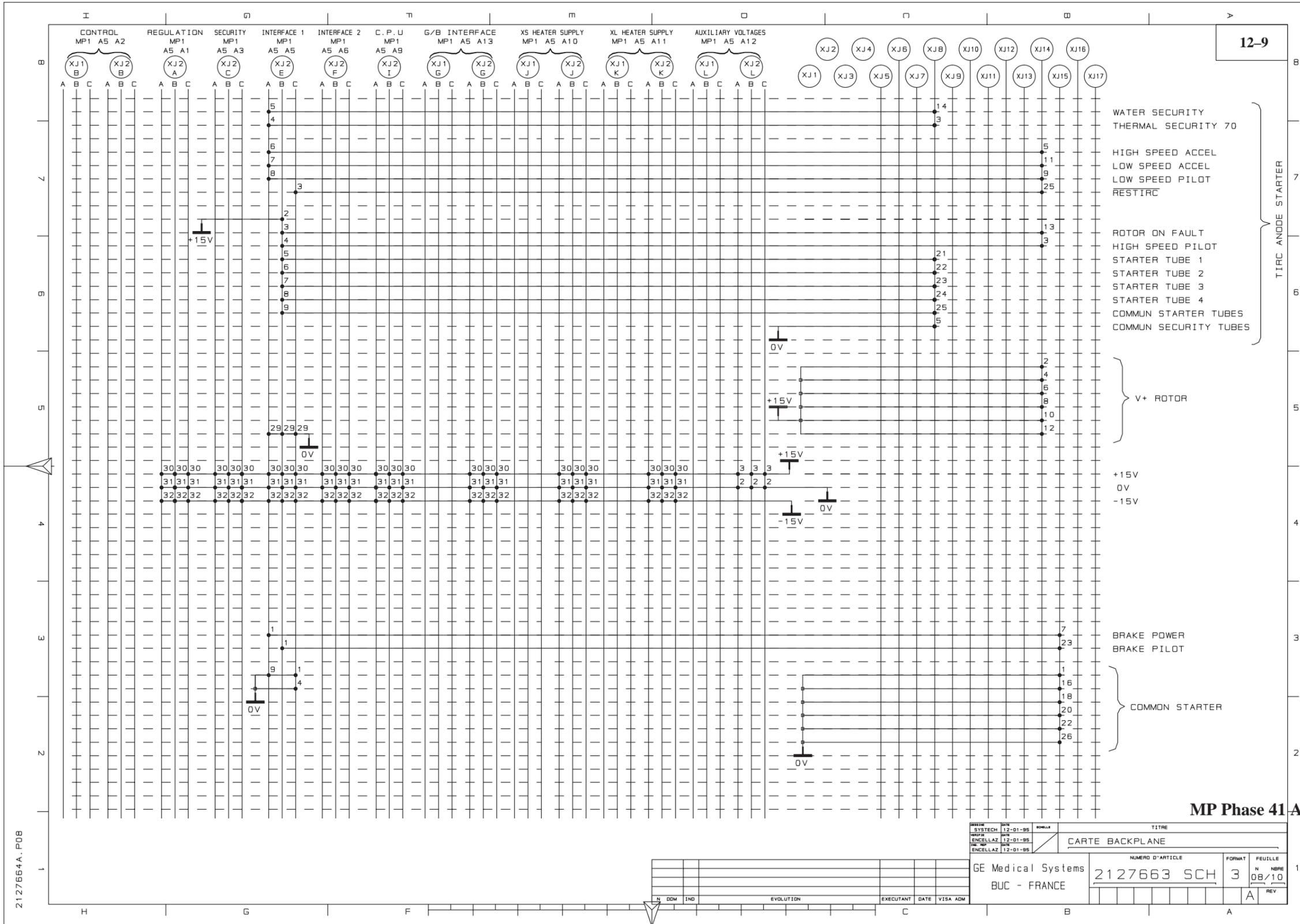
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SYSTEME	12-01-95		CARTE BACKPLANE
ENCCELLAZ	12-01-95		
ENCCELLAZ	12-01-95		
GE Medical Systems		NOMERO D'ARTICLE	FORMAT
BUC - FRANCE		2127663 SCH	3
		FEUILLE	
		N° NBR	06/10
		REV	A

N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA	ADM

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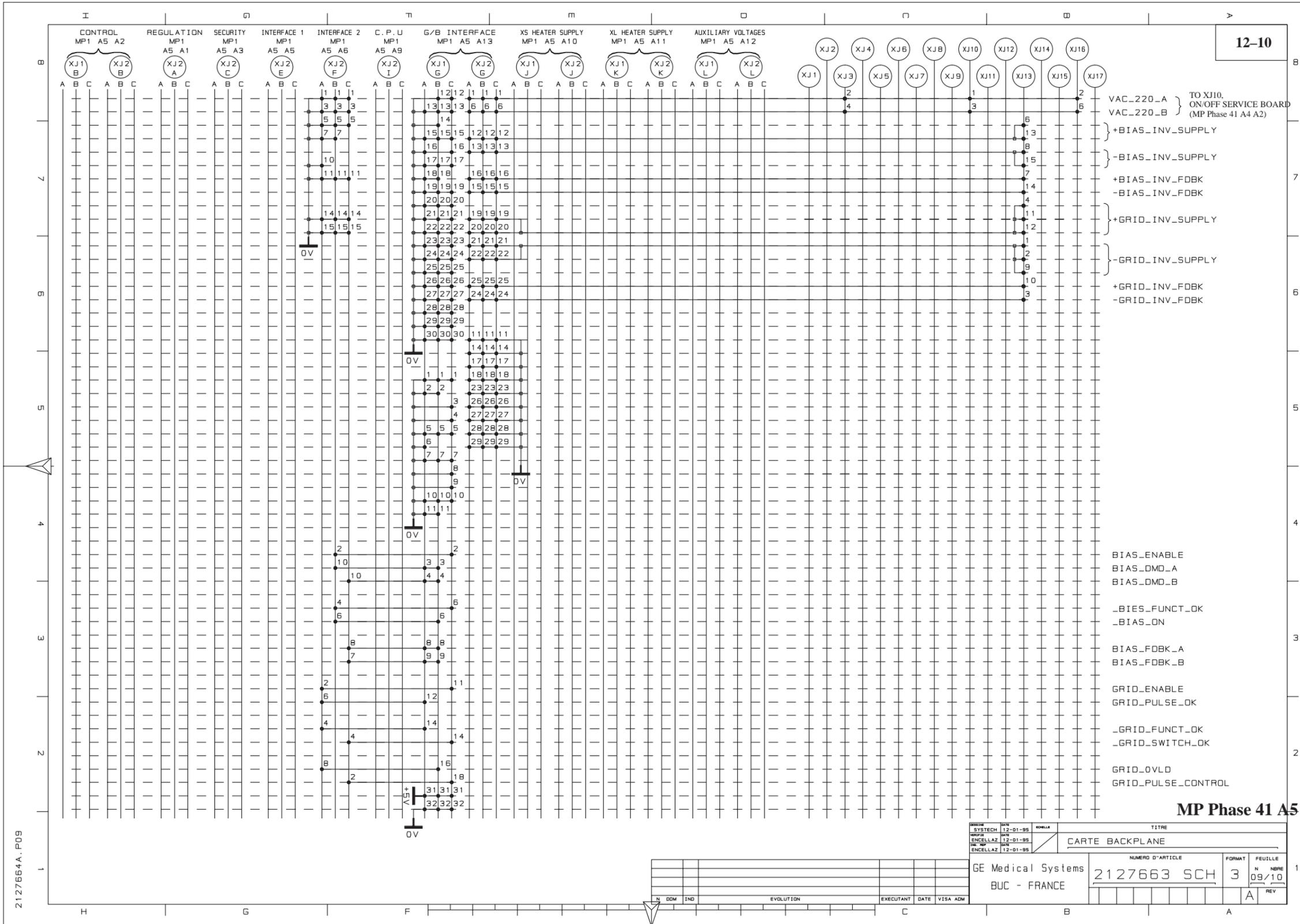
MP Phase 41 A5

REVISE	DATE	REVISION	TITRE
SYSTEME	12-01-95		CARTE BACKPLANE
ENCCELLAZ	12-01-95		
ENCCELLAZ	12-01-95		

GE Medical Systems	NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE	2127663 SCH	3	08/10
			REV
			A

2127664A.P08

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12-10

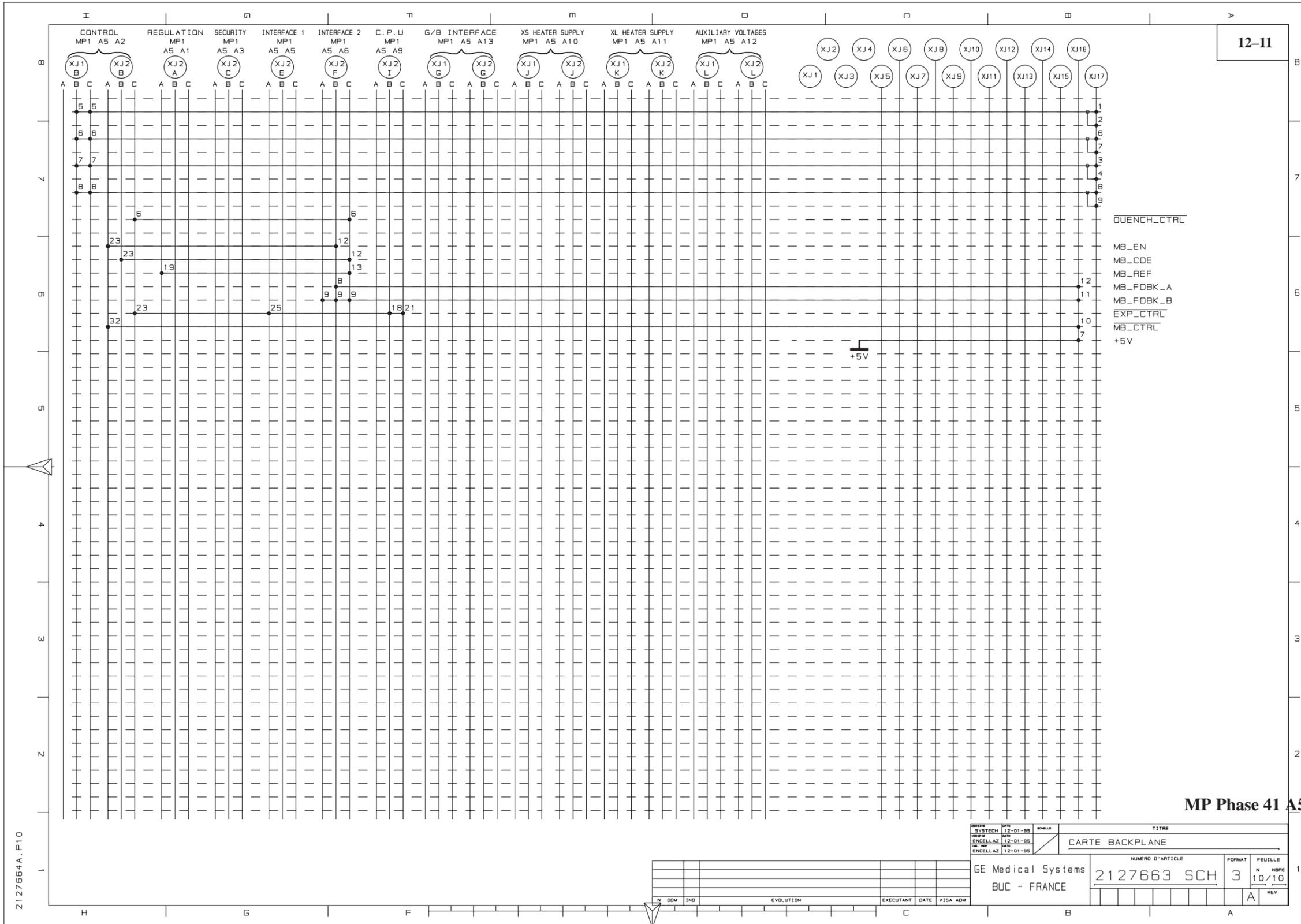
TO XJ10, ON/OFF SERVICE BOARD (MP Phase 41 A4 A2)

MP Phase 41 A5

REVISION	DATE	NOUVEAU	TITRE
SYSTEME	12-01-95		CARTE BACKPLANE
ENCCELLAZ	12-01-95		
ENCCELLAZ	12-01-95		
GE Medical Systems			NUMERO D'ARTICLE
BUC - FRANCE			2127663 SCH 3
			FORMAT
			FEUILLE
			N NBR
			09/10
			REV
			A

2127664A.P09

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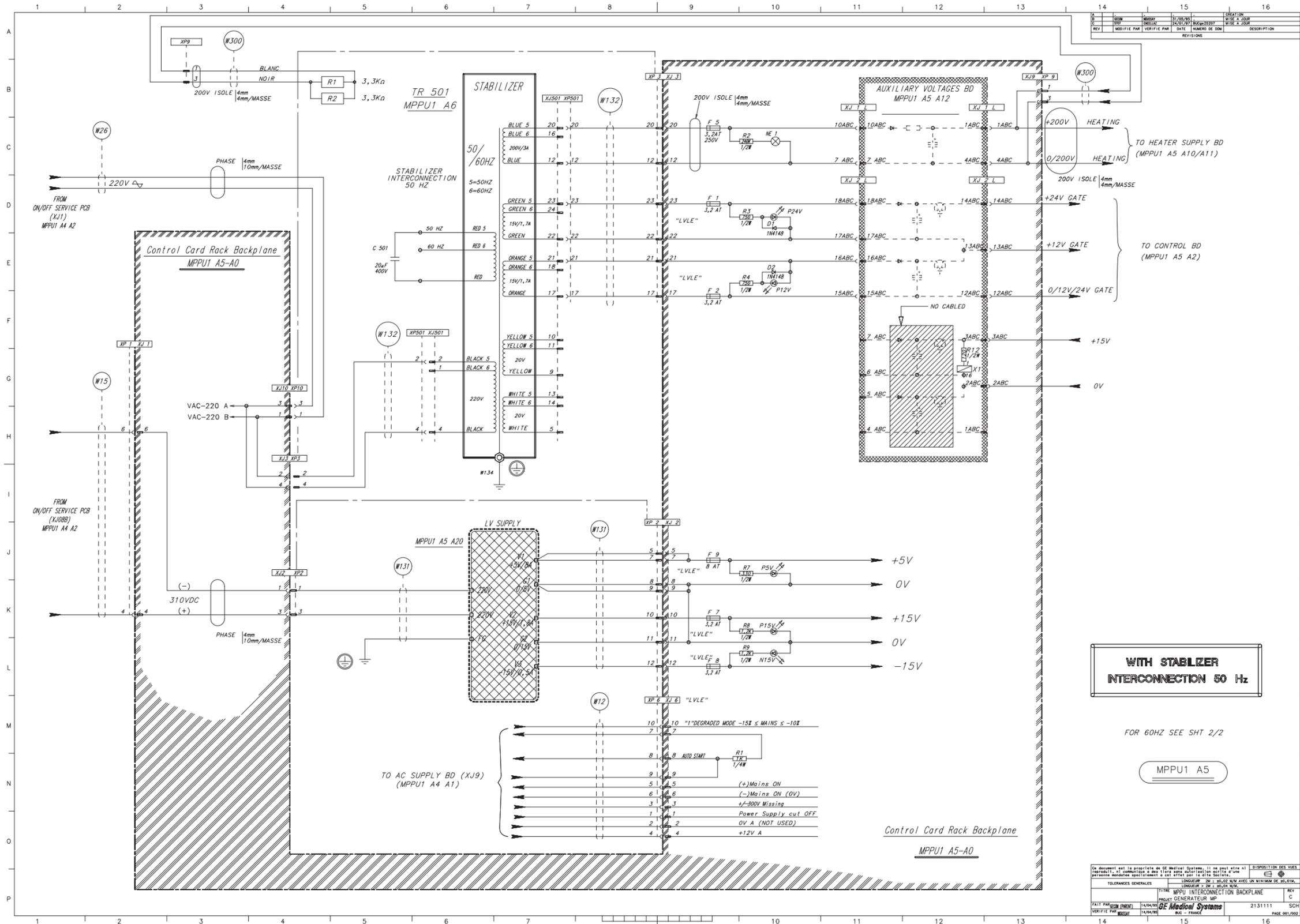
MP Phase 41 A5

2127664A.P10

REVISE	DATE	REVISION	TITRE
SYSTEME	12-01-99		CARTE BACKPLANE
ENCCELLAZ	12-01-99		
ENCCELLAZ	12-01-99		
GE Medical Systems		NOMERO D'ARTICLE	FORMAT
BUC - FRANCE		2127663 SCH	3
		FEUILLE	
		N°	10/10
		REV	A

N°	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA	ADM

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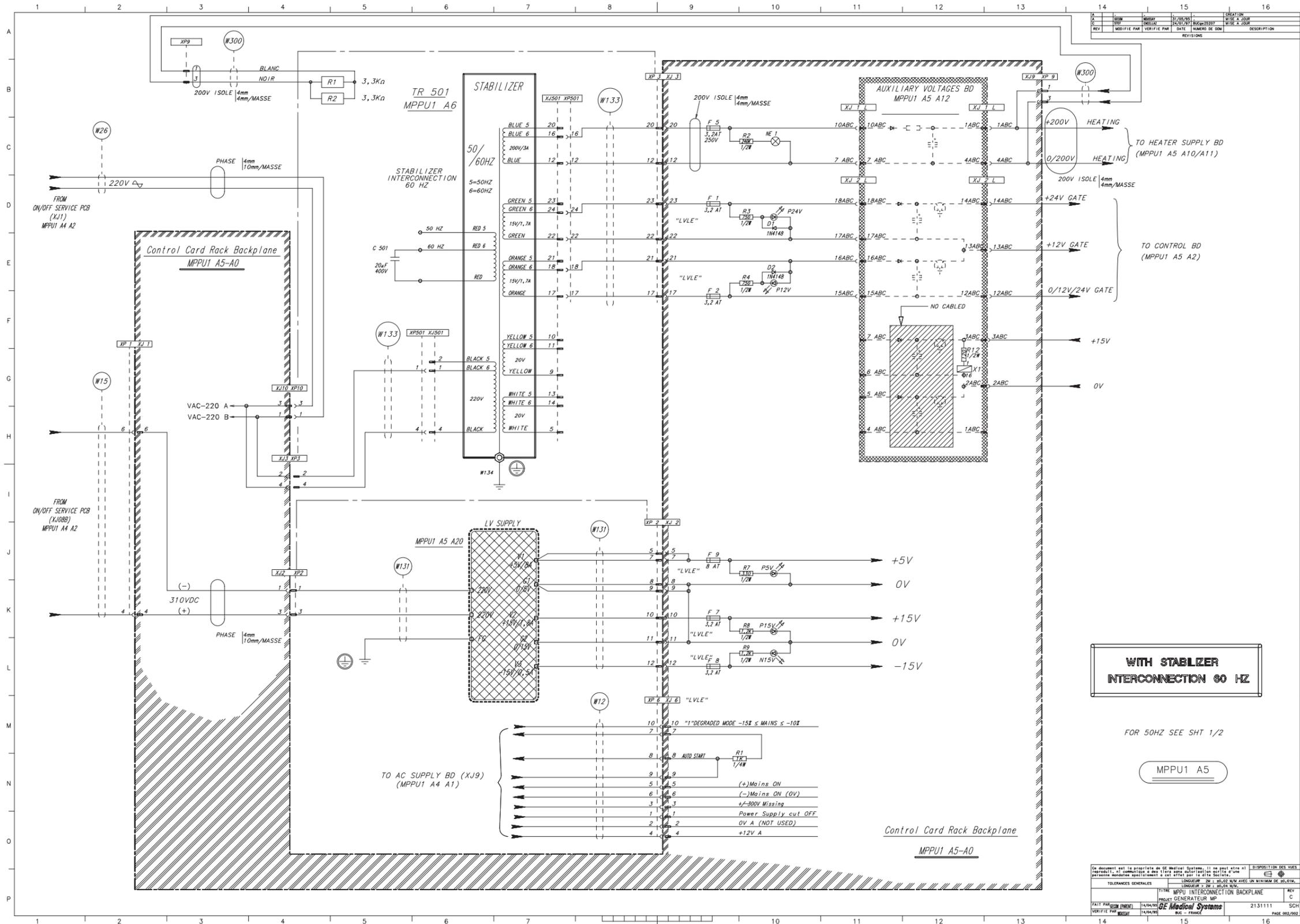
**WITH STABILIZER
INTERCONNECTION 50 Hz**

FOR 60HZ SEE SHT 2/2

MPPU1 A5

UN DOCUMENT EST LA PROPRIETE DE GE Medical Systems. Il ne peut être ni réproduit, ni communiqué à des tiers sans autorisation écrite d'une personne autorisée spécialement à cet effet par le GE Medical Systems.		DISPOSITION DES VUES
TOLERANCES GENERALES		LONGUEUR 20 ± 0,02 MIN AVEC UN MINIMUM DE 0,010.
TITRE MPPU1 INTERCONNECTION BACKPLANE		REV C
PROJET GENERATEUR MP		SCH
DATE PREP (PREN)	GE Medical Systems	2131111
VERIFIE PAR (VERIF)	GE Medical Systems	BASE 05/2002

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REV	DATE	DESCRIPTION
A	05/09/95	CONCEPTION
B	05/09/95	REVISION
C	05/09/95	REVISION
D	05/09/95	REVISION
E	05/09/95	REVISION
F	05/09/95	REVISION
G	05/09/95	REVISION
H	05/09/95	REVISION
I	05/09/95	REVISION
J	05/09/95	REVISION
K	05/09/95	REVISION
L	05/09/95	REVISION
M	05/09/95	REVISION
N	05/09/95	REVISION
O	05/09/95	REVISION
P	05/09/95	REVISION

TOLERANCES GENERALES		DISPOSITION DES VICES	
LONGUEUR	± 0,02 mm	LONGUEUR	± 0,02 mm
TITRE: MPPU INTERCONNECTION BACKPLANE PROJET: GENERATEUR MP REF: 2119703-100 VERIFIE PAR: [Signature] DATE: 05/09/95			

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MNEMONICS

13-0

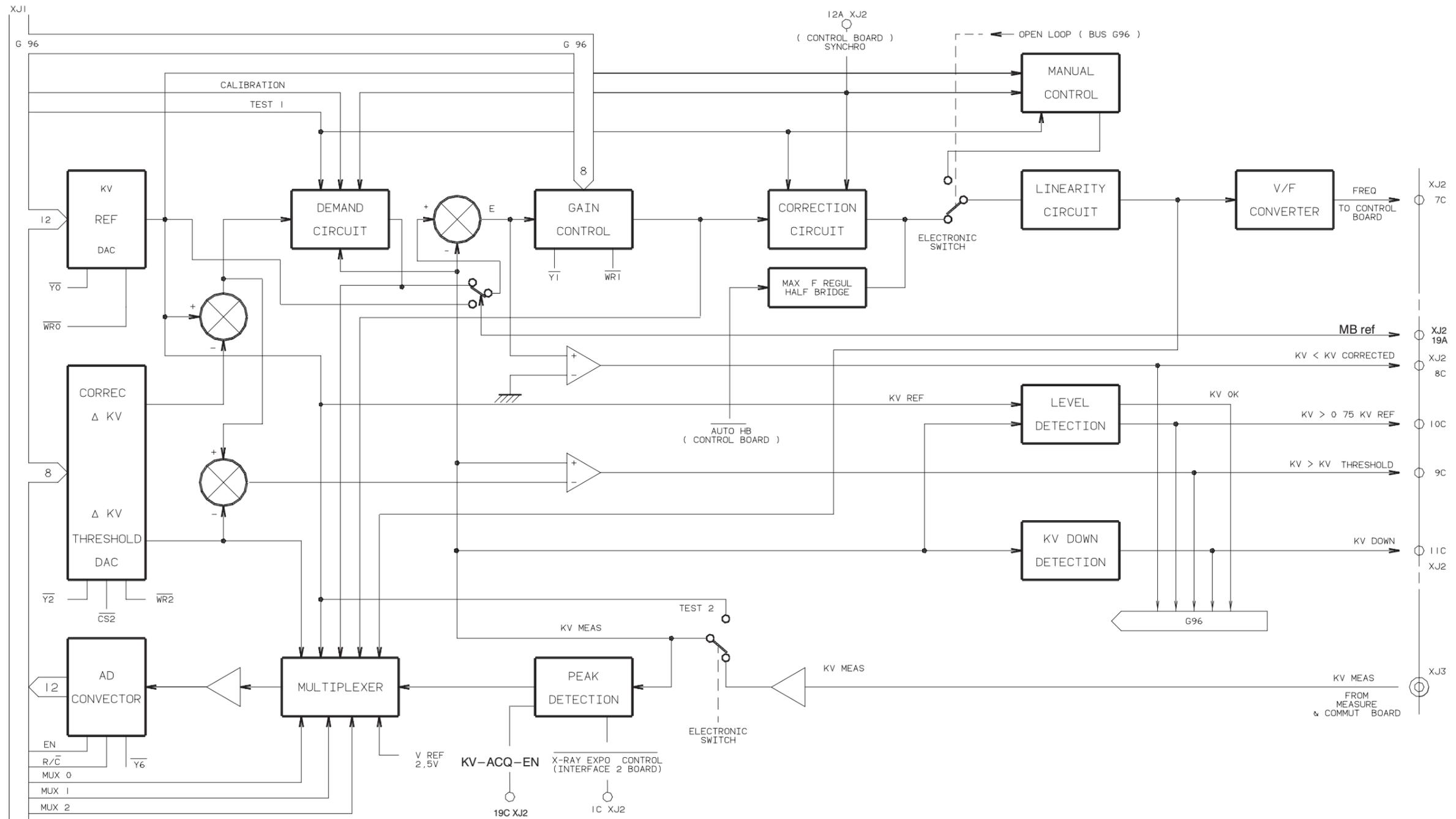
MP PHASE 41 A5 A1 – REGULATION BOARD

VERR	Voltage Error
VF	Input Voltage of Voltage/Frequency Converter
STSADC	Analog/Digital converter Status
FREQ	V/F Frequency Output
kV < kV CORRECTED	kV value measured < kV corrected value
MB ref.	Mini bridge kV ref.
kV > 0.75 kV REF.	kV value measured > 0.75 kV ref. value
kV > kV THRESHOLD	kV value measured > kV threshold value
kV DOWN	Spit detection
kV MEAS.	kV value measurement
kV-ACQ-EN	kV measure reset
AUTO HB	Half bridge enable

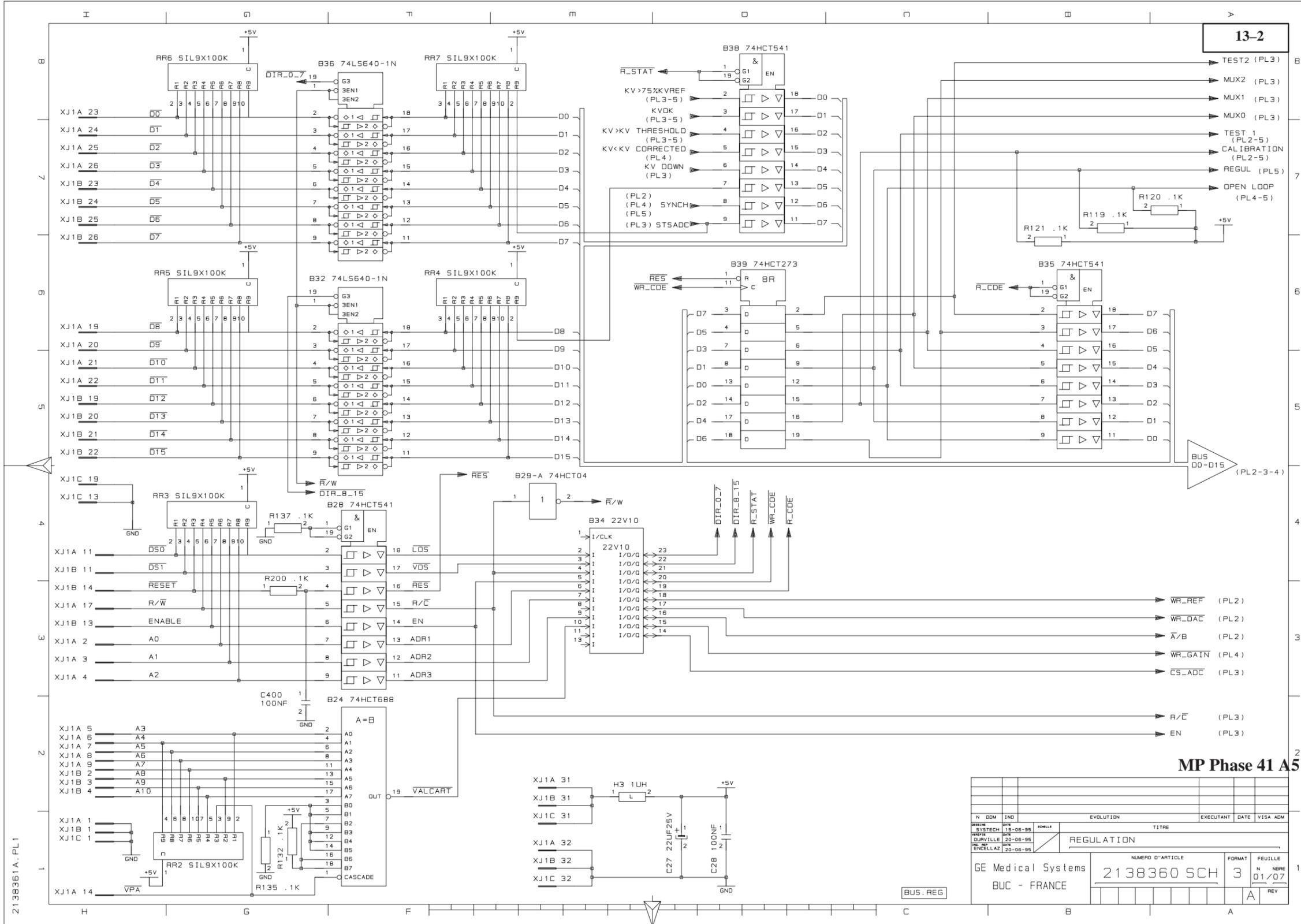
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MP PHASE 41 A5 A1 – REGULATION BOARD BLOCK DIAGRAM

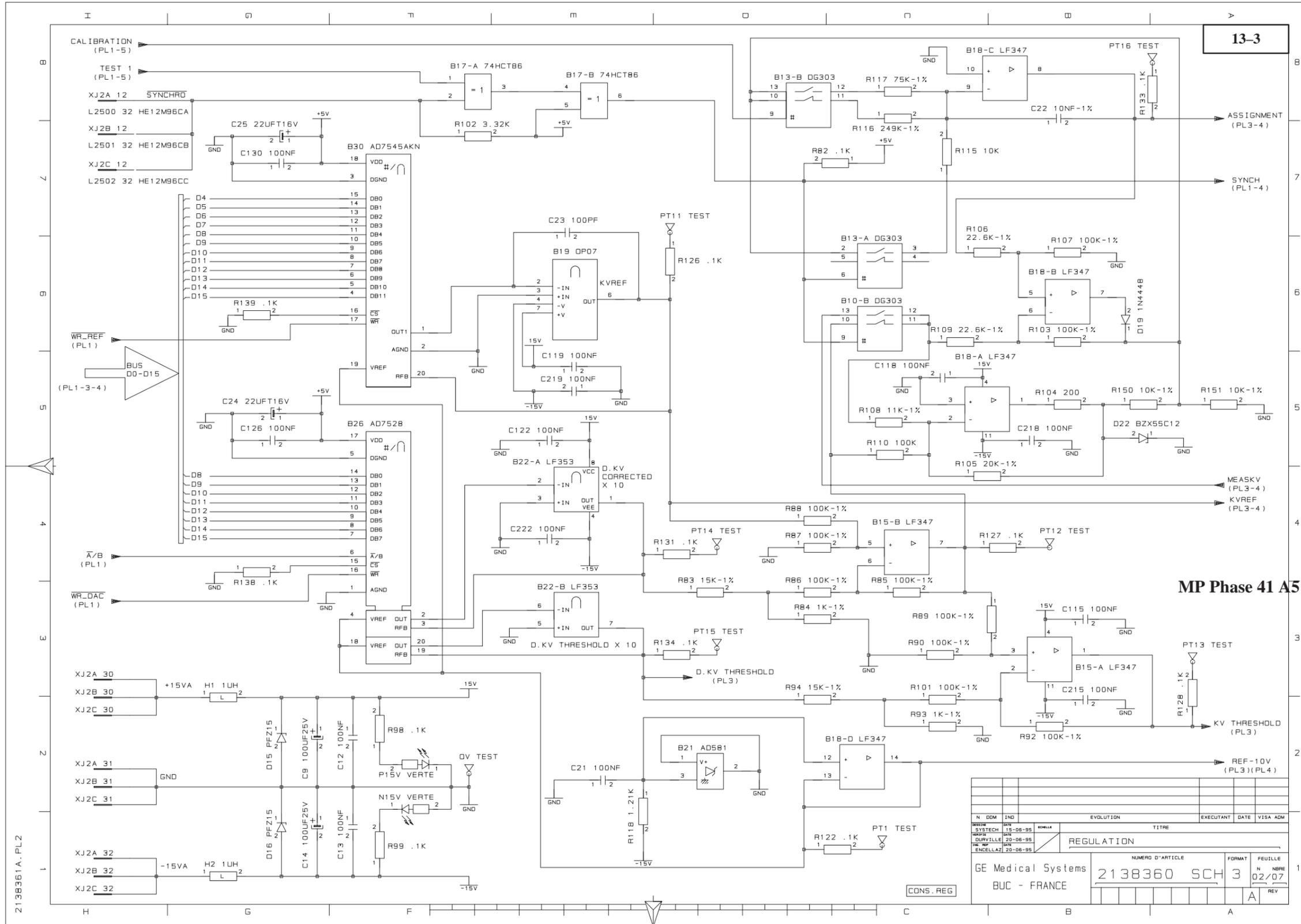
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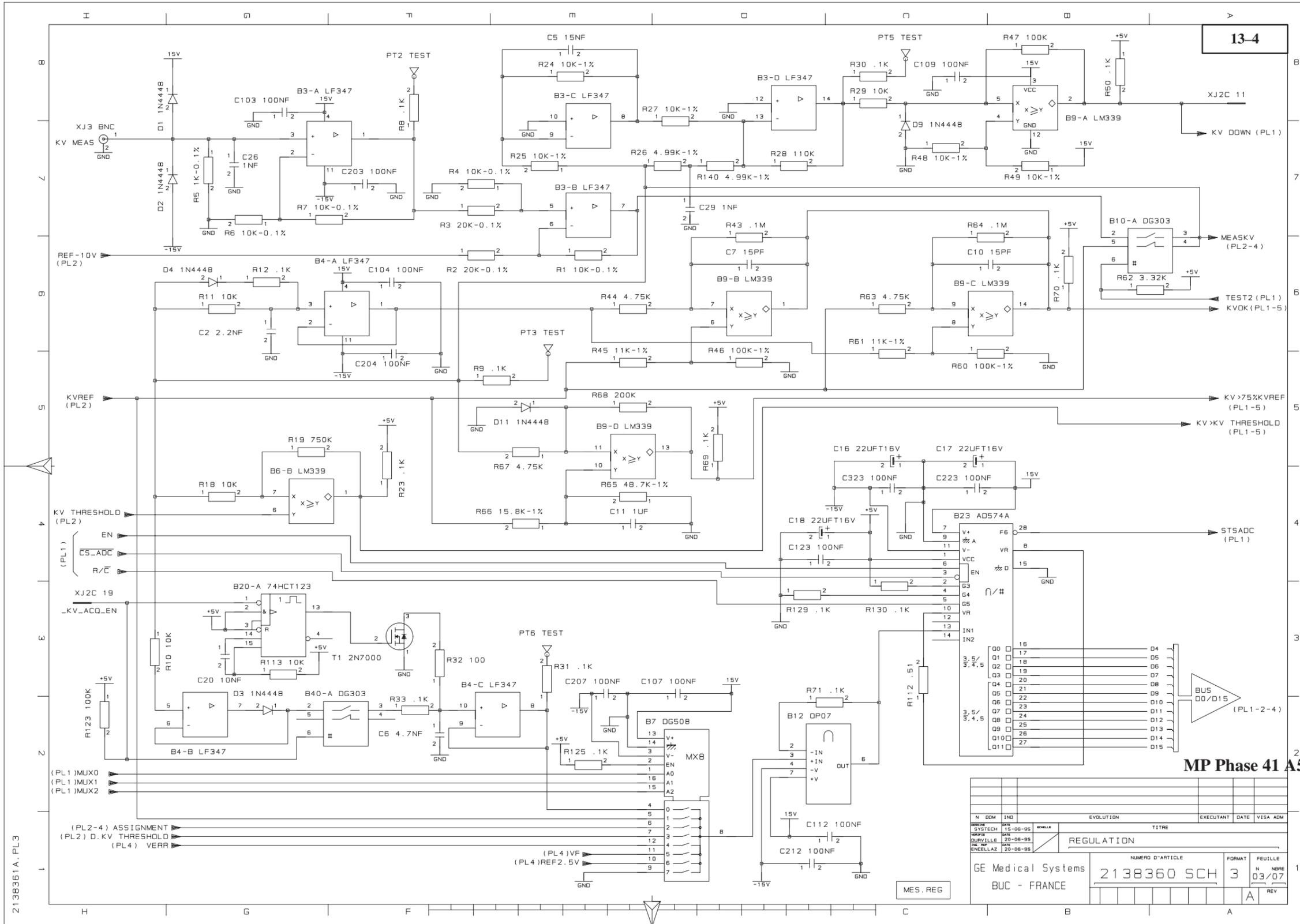
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MP Phase 41 A5 A1

N	DOM	IND	EVOLUTION	TITRE	EXECUTANT	DATE	VISA ADM
1	SYSTEME	15-08-95		REGULATION			
2	MAJORA	20-08-95					
3	CHANGEM	20-08-95					
4	ENCADRE	20-08-95					

GE Medical Systems	NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE	2138360	SCH 3	N NBR 02/07
			REV

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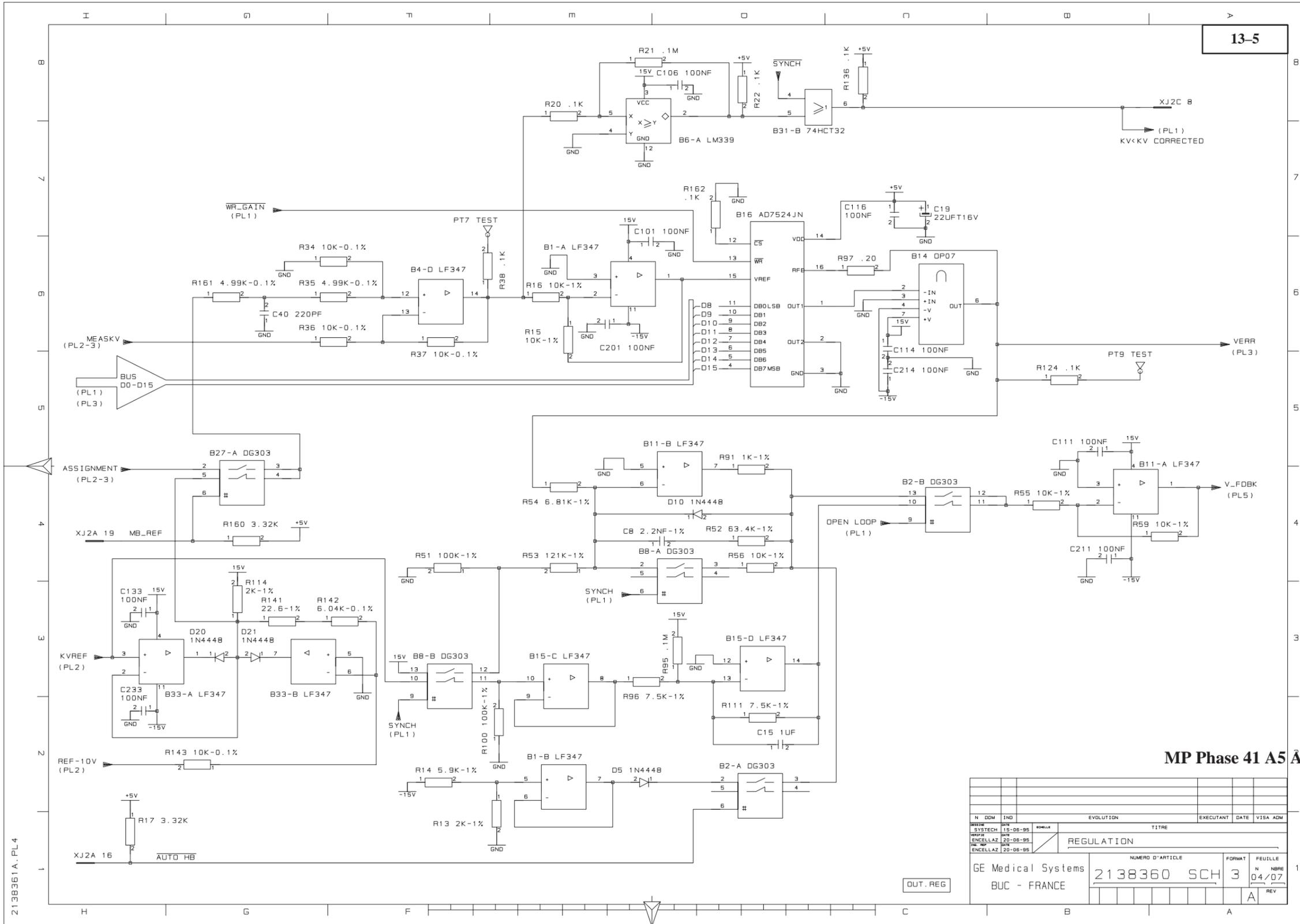
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MP Phase 41 A5 A1

N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA ADM
1	SYSTECH	15-08-95	REGULATION			
2	IND	20-08-95				
3	IND	20-08-95				
4	IND	20-08-95				

GE Medical Systems	2138360 SCH 3	FEUILLE N° 03/07
BUC - FRANCE		REV A

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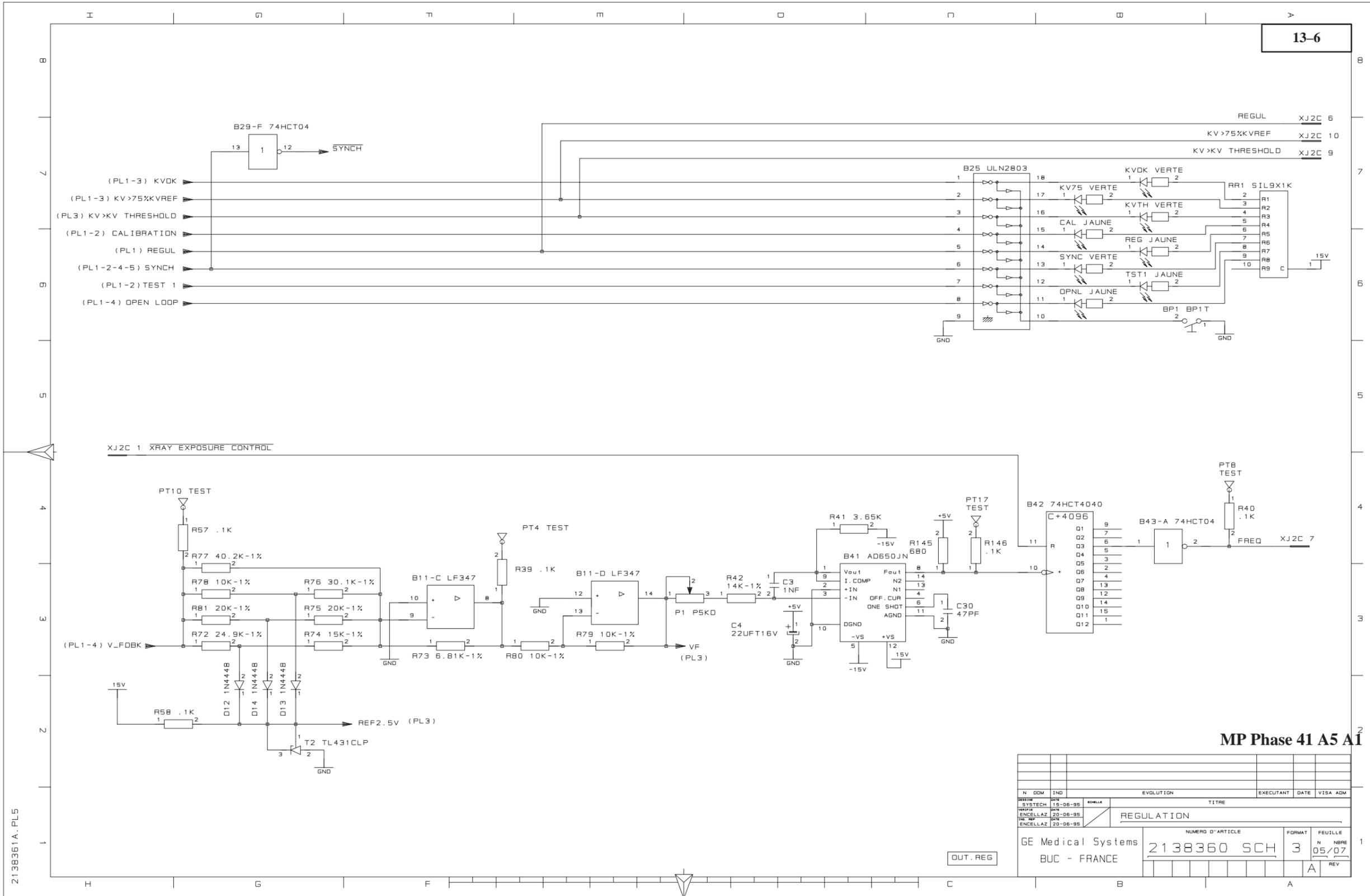


MP Phase 41 A5 A1

N	DOM	IND	EVOLUTION	EXECUTANT	DATE	VISA ADM
001	SYSTEME	DATE	15-06-95	ROSELLE		TITRE
002	REVISION	DATE	20-06-95			
003	ENCCELLAZ	DATE	25-06-95			
004	ENCCELLAZ	DATE	25-06-95			

REGULATION		NOMERO D'ARTICLE		FORMAT	FEUILLE
GE Medical Systems		2138360 SCH		3	04/07
BUC - FRANCE					REV
					A

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MP Phase 41 A5 A1

N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA	ADM
01	SYSTEM	15-06-95					
02	WRPIS	20-06-95					
03	ENCCELLAZ	20-06-95					
04	ENCCELLAZ	20-06-95					

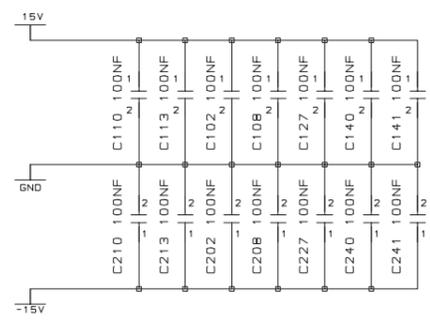
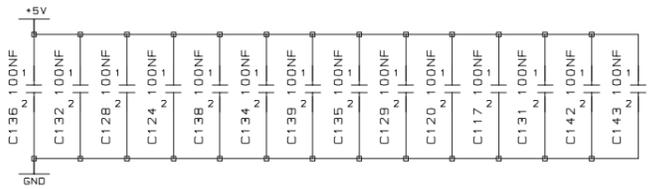
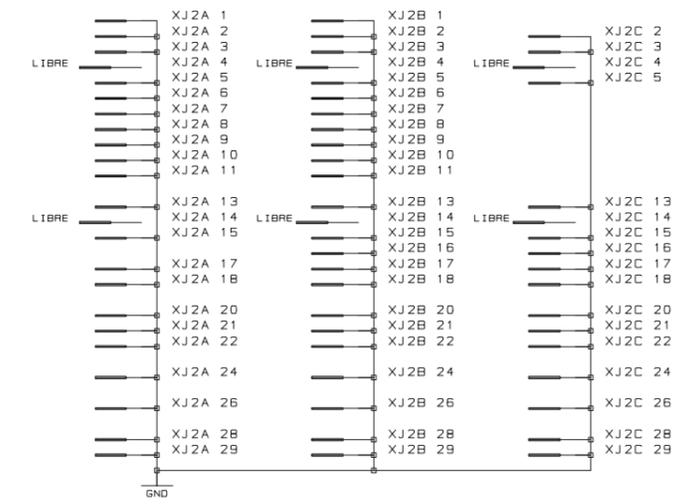
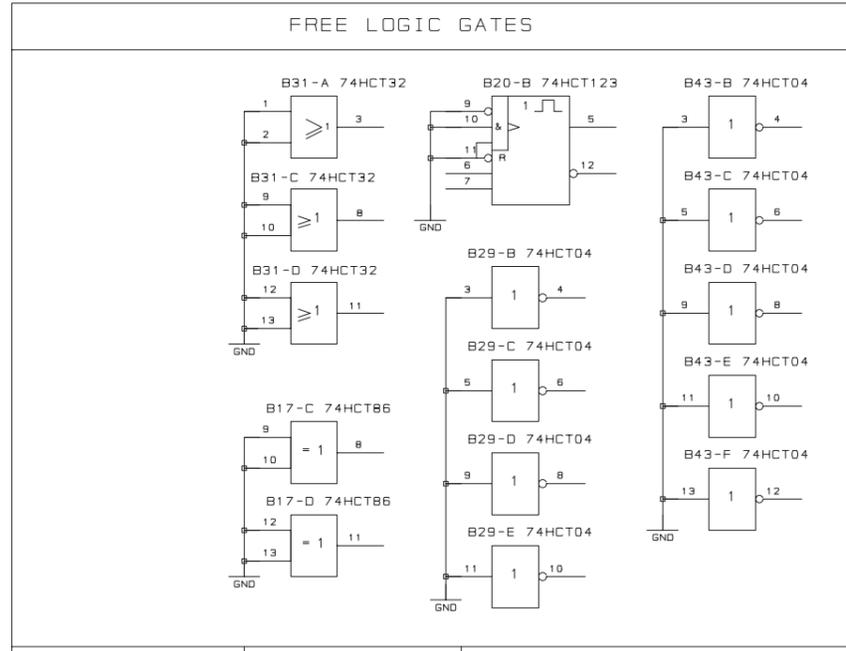
REGULATION		TITRE	
GE Medical Systems			
BUC - FRANCE		NUMERO D'ARTICLE	FEUILLE
		2138360 SCH	N 05/07
		FORMAT	REV
		3	A

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13-7

IC TYPE	POSITION REFERENCE	VCC5V	GND
74HCT640	B32-B36	20	10
74HCT541	B28-B38-B35	20	10
74HCT273	B39	20	10
74HCT688	B24	20	10
74HCT32	B31	14	7
74HCT04	B29-B43	14	7
74HCT123	B20	16	8
74HCT86	B17	14	7
74HCT4040	B42	16	8
GAL 22V10	B34	24	12

IC TYPE	POSITION REFERENCE	+15V	GND	-15V
DG303	B2-B13-B10 B8-B27-B40	14	7	8
AD650JN	B41	12	10-11	5



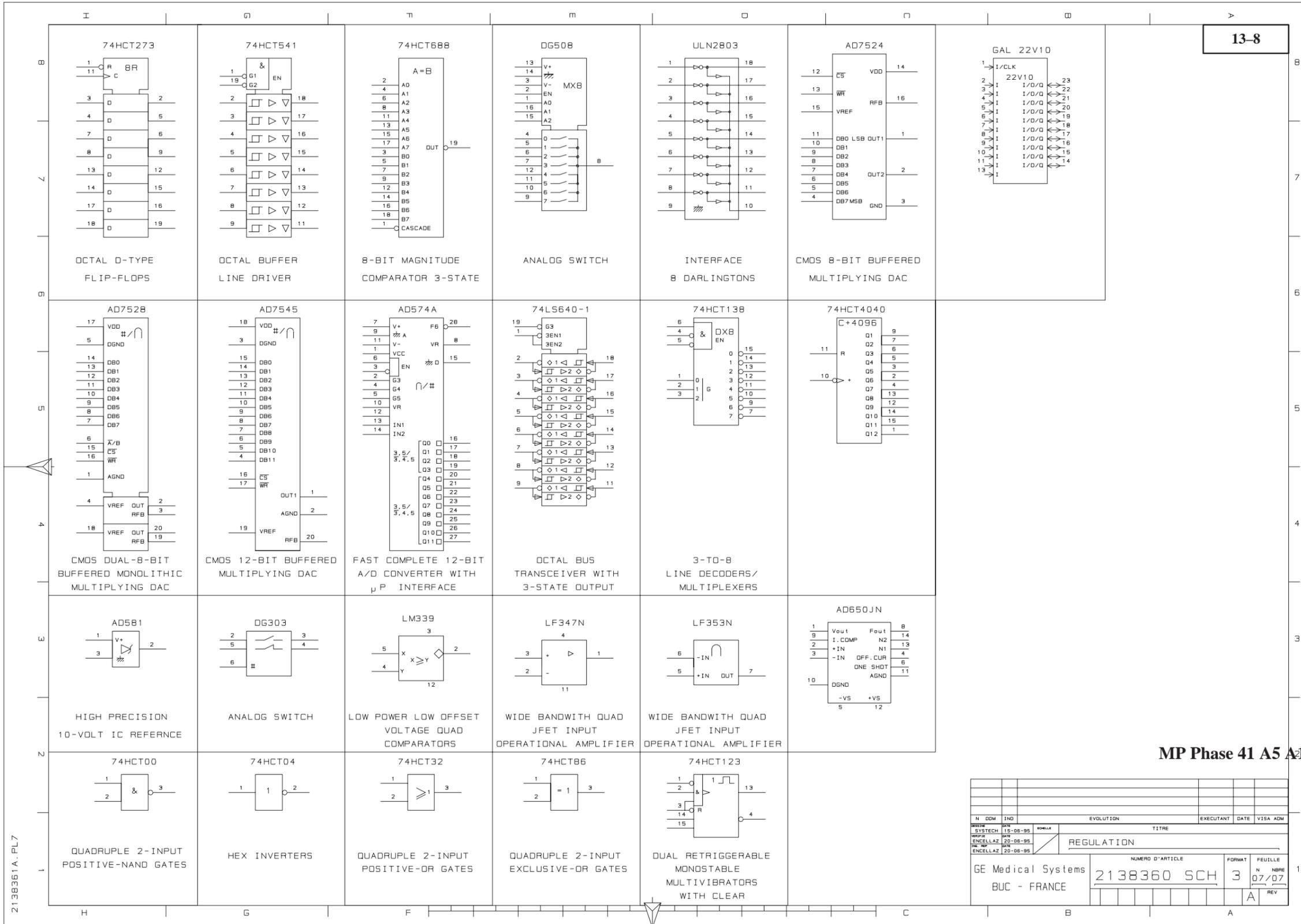
- XJ1A 30 L2500 32 HE12M96CA
- XJ1B 30 L2501 32 HE12M96CB
- XJ1C 30 L2502 32 HE12M96CC

TAB. REG

MP Phase 41 A5 A1

N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA ADM
SYSTEME	15-08-95	ENCPELLAZ	20-08-95	ENCPELLAZ	20-08-95	ENCPELLAZ
REGULATION			TITRE			
GE Medical Systems		NUMERO D'ARTICLE		FORMAT	FEUILLE	
BUC - FRANCE		2138360 SCH		3	N NBR	
				A	06/07	
					REV	

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MP Phase 41 A5 A1

N	DOM	IND	EVOLUTION	EXECUTANT	DATE	VISA ADM
1	SYSTEM	15-06-95	REGULATION			
2	ENCCELLAZ	20-06-95				
3	ENCCELLAZ	25-06-95				
4	ENCCELLAZ	25-06-95				

GE Medical Systems		BUC - FRANCE	
NUMERO D'ARTICLE	2138360	FORMAT	SCH 3
FEUILLE	N	NBRE	07/07
REV	A		

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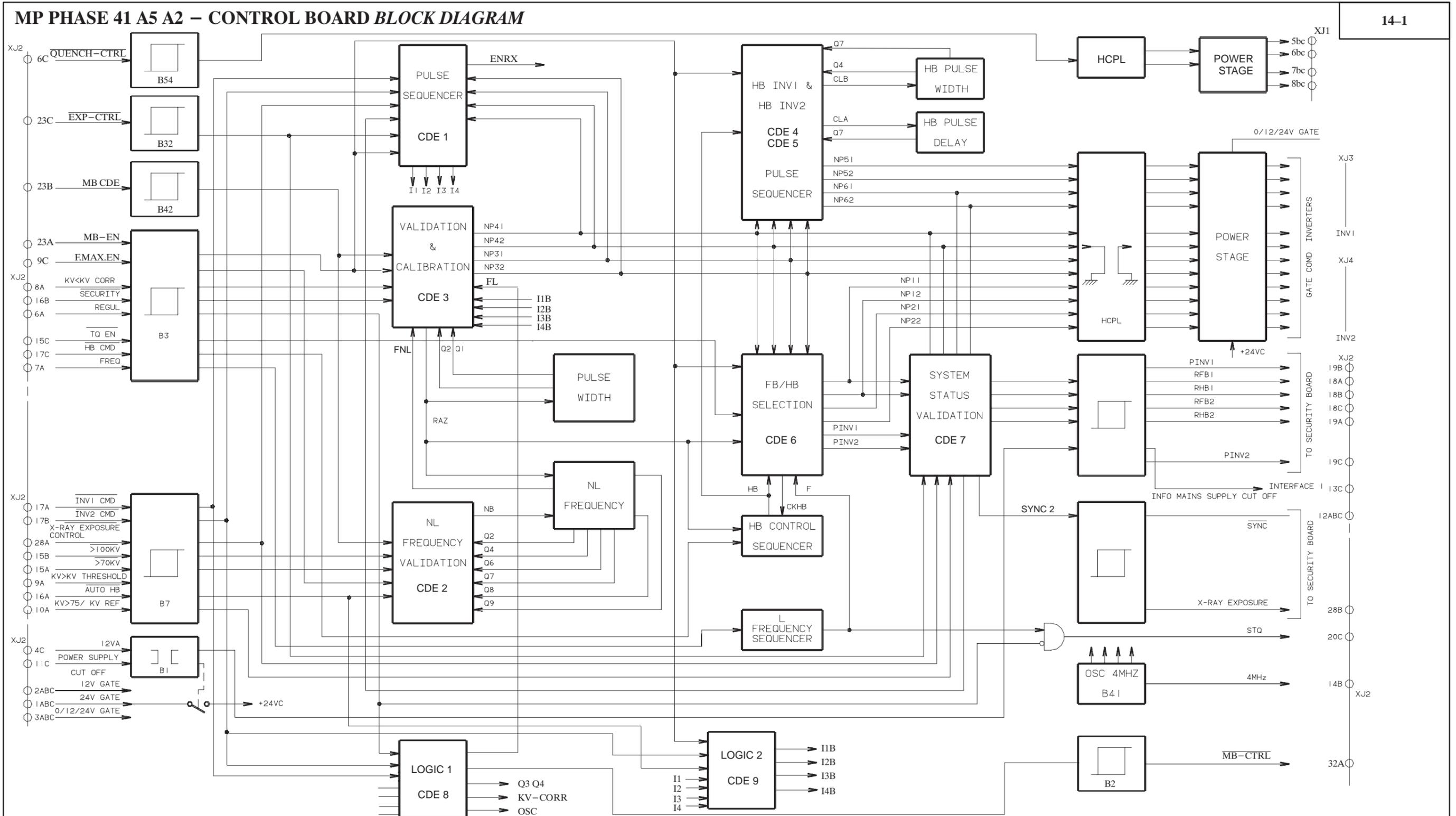
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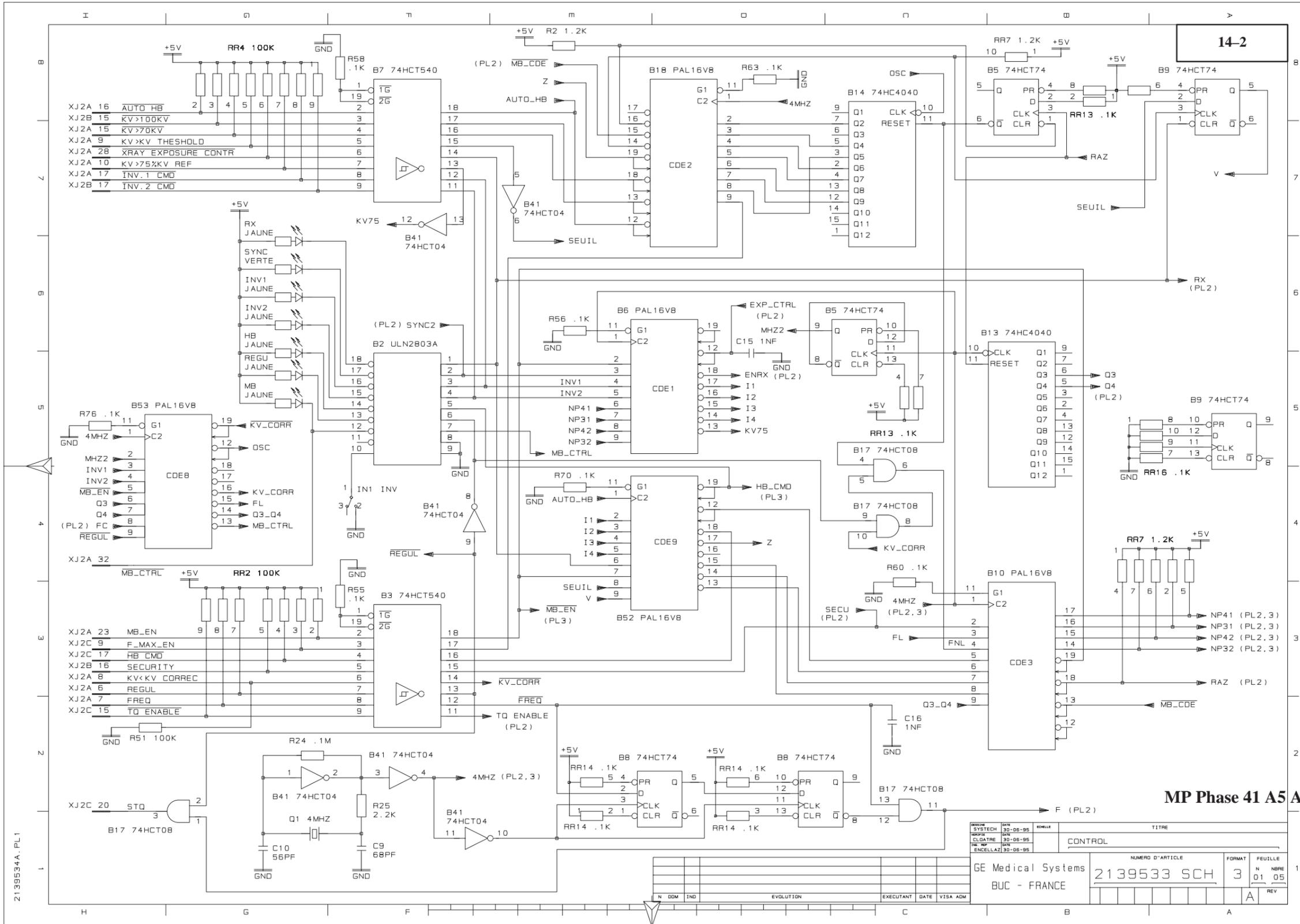
MP PHASE 41 A5 A2 – CONTROL BOARD

STQ	Sense TQ (checks operating enable with TQ min interlock) TQ min actuated.
TQ	Time between thyristor current cancel and voltage applied to its terminals.
HB CMD	Half Bridge Command
AUTO HB	Half-bridge enable – enables half-bridge connection when KV threshold is reactivated
P INV1	Pulse Inverter 1
P INV2	Pulse Inverter 2
RFB1 RFB2	Return Full Bridge Inverter 1 or 2
RHB1 RHB2	Return Half Bridge Inverter 1 or 2
SYNC	Signal enabled with the first inverter pulse and remains active during inverter running
MB CDE	Mini bridge command
MB EN	Mini bridge enable (actived in grided mode)
FMAX EN	Frequency limitation change
MB CTRL	Mini bridge activated
QUENCH CTRL	Quench mode activated

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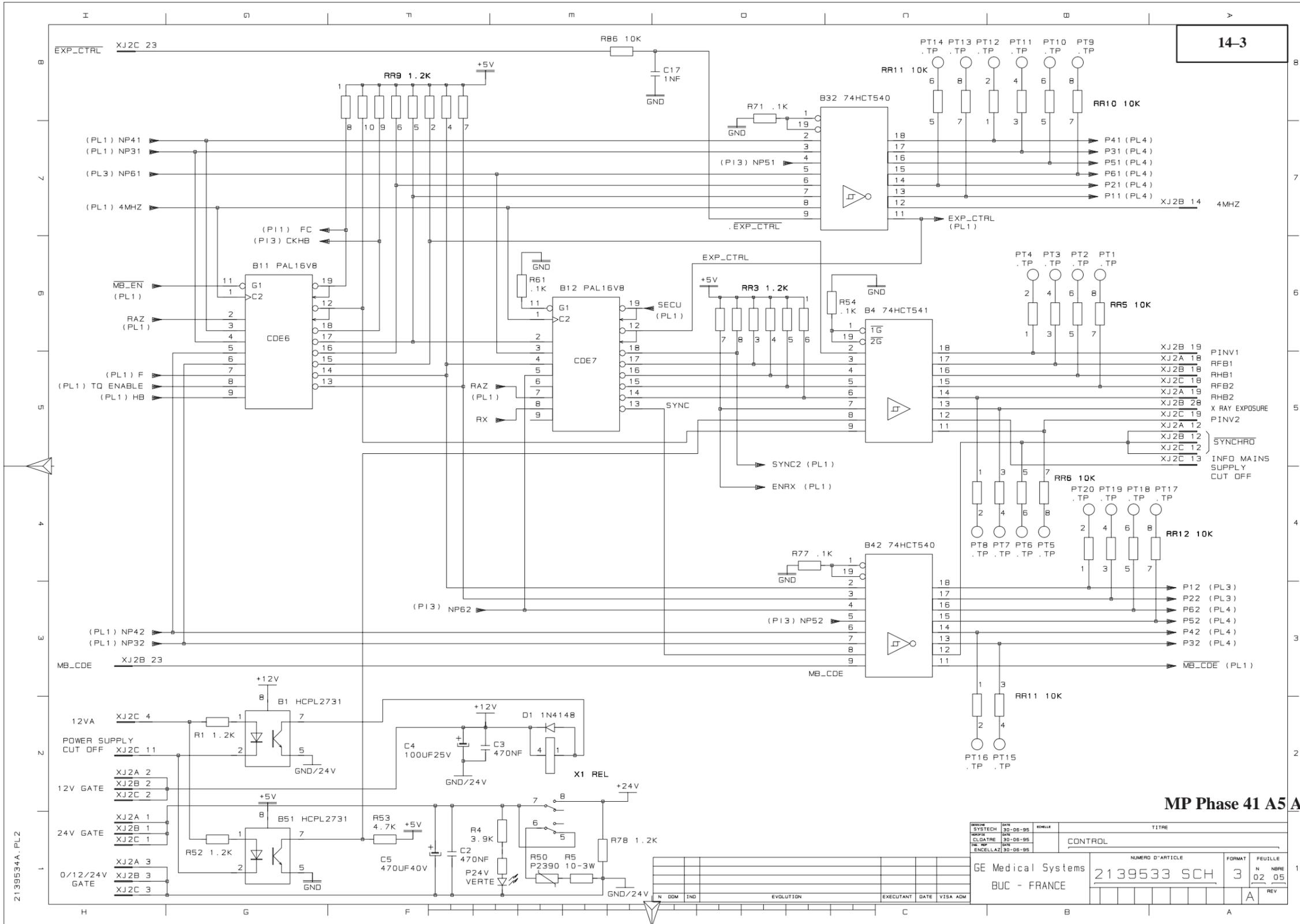
2139534A - PL1

MP Phase 41 A5 A2

REVISE	DATE	REVISION	TITRE
SYSTECH	23-06-95		CONTROL
WUPJL	23-06-95		
CLDATH	23-06-95		
ENCENL	23-06-95		

GE Medical Systems		NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE		2139533 SCH	3	N NBR N
				01 05
				REV
				A

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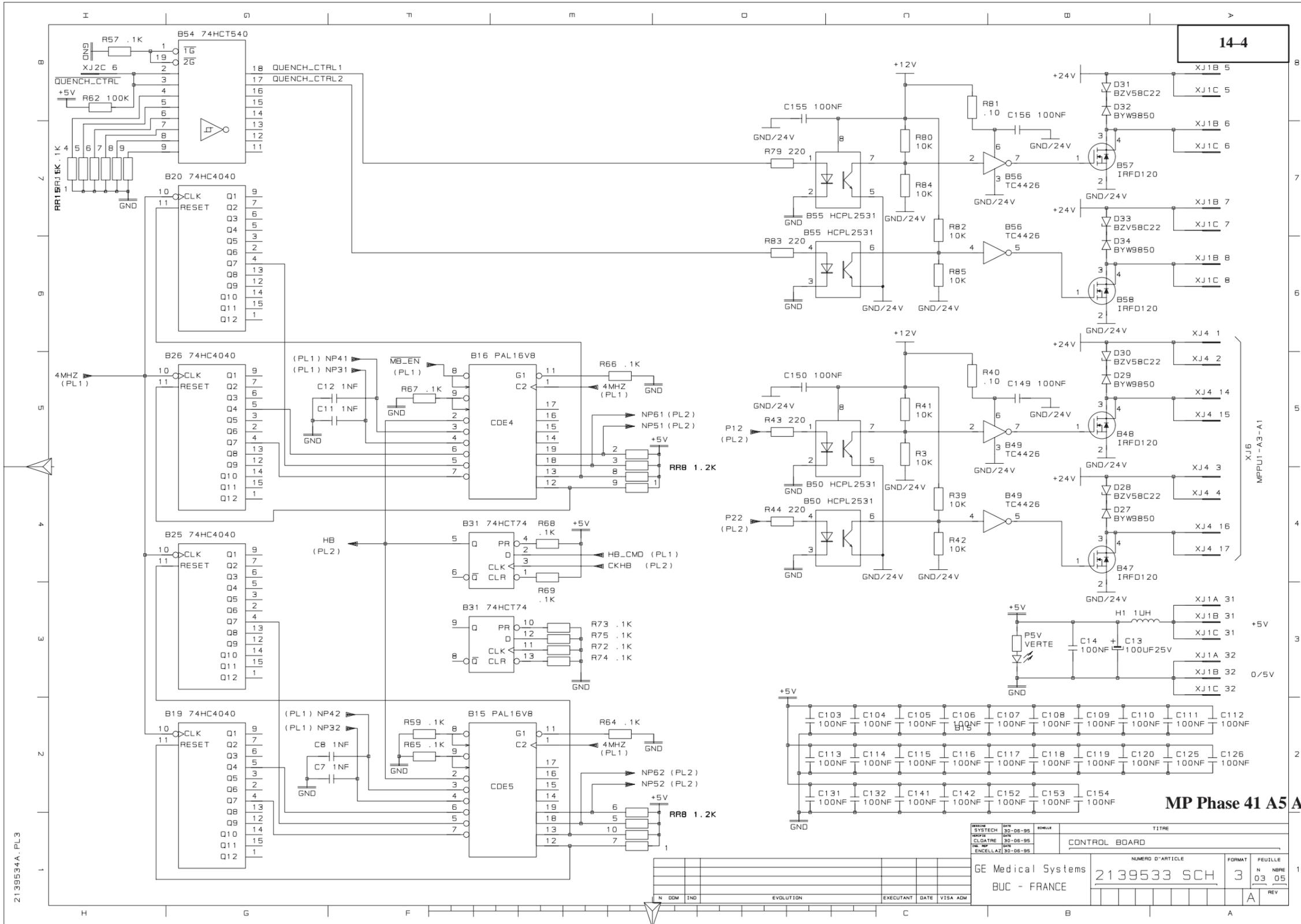
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MP Phase 41 A5 A2

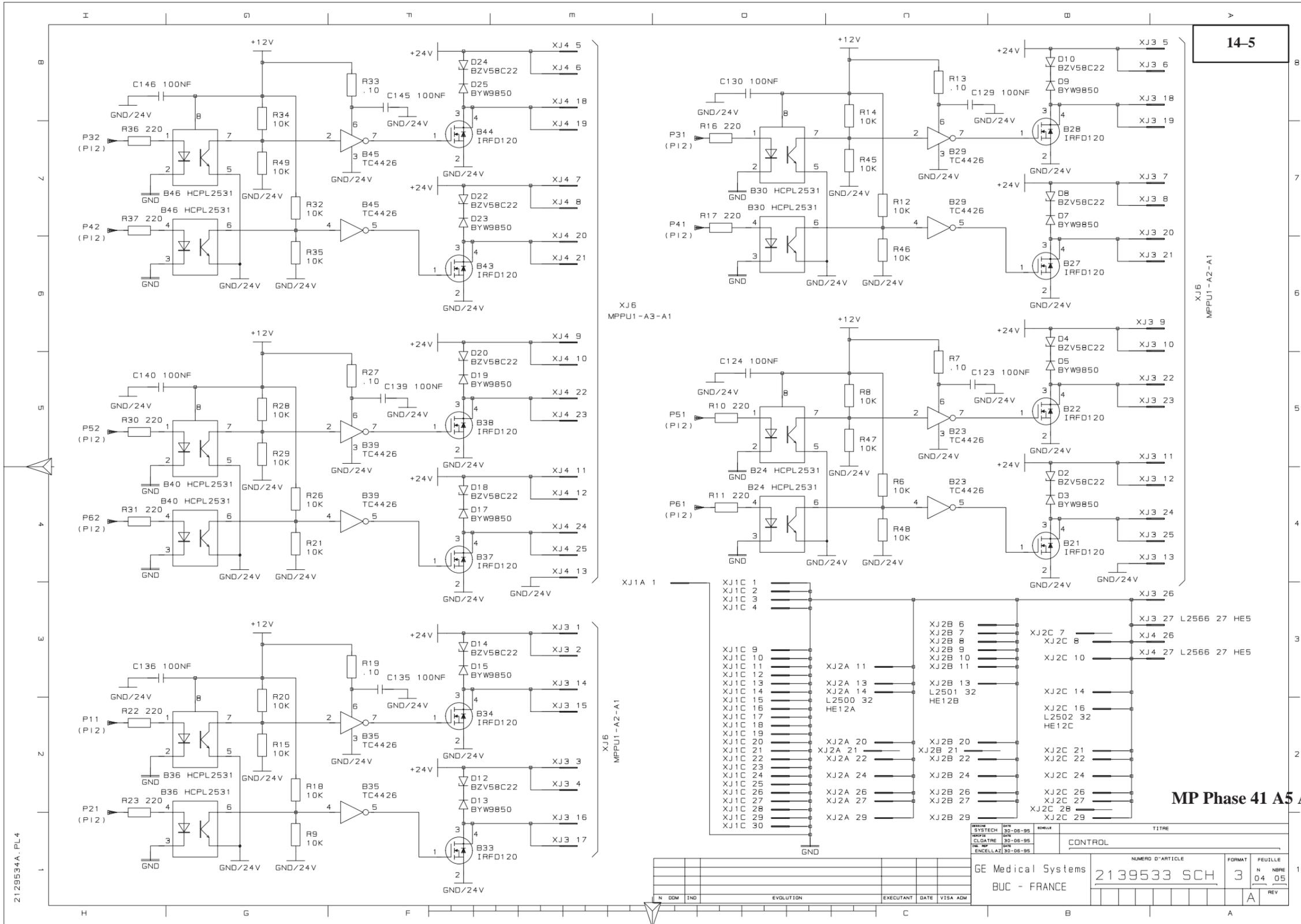
REVISE	DATE	REVISION	TITRE
SYSTECH	23-06-95		CONTROL
WUPJL	04-06-95		
CLADATRE	20-06-95		
ENCCELLAZ	20-06-95		

GE Medical Systems	NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE	2139533 SCH	3	N NBR 02 05
			REV A

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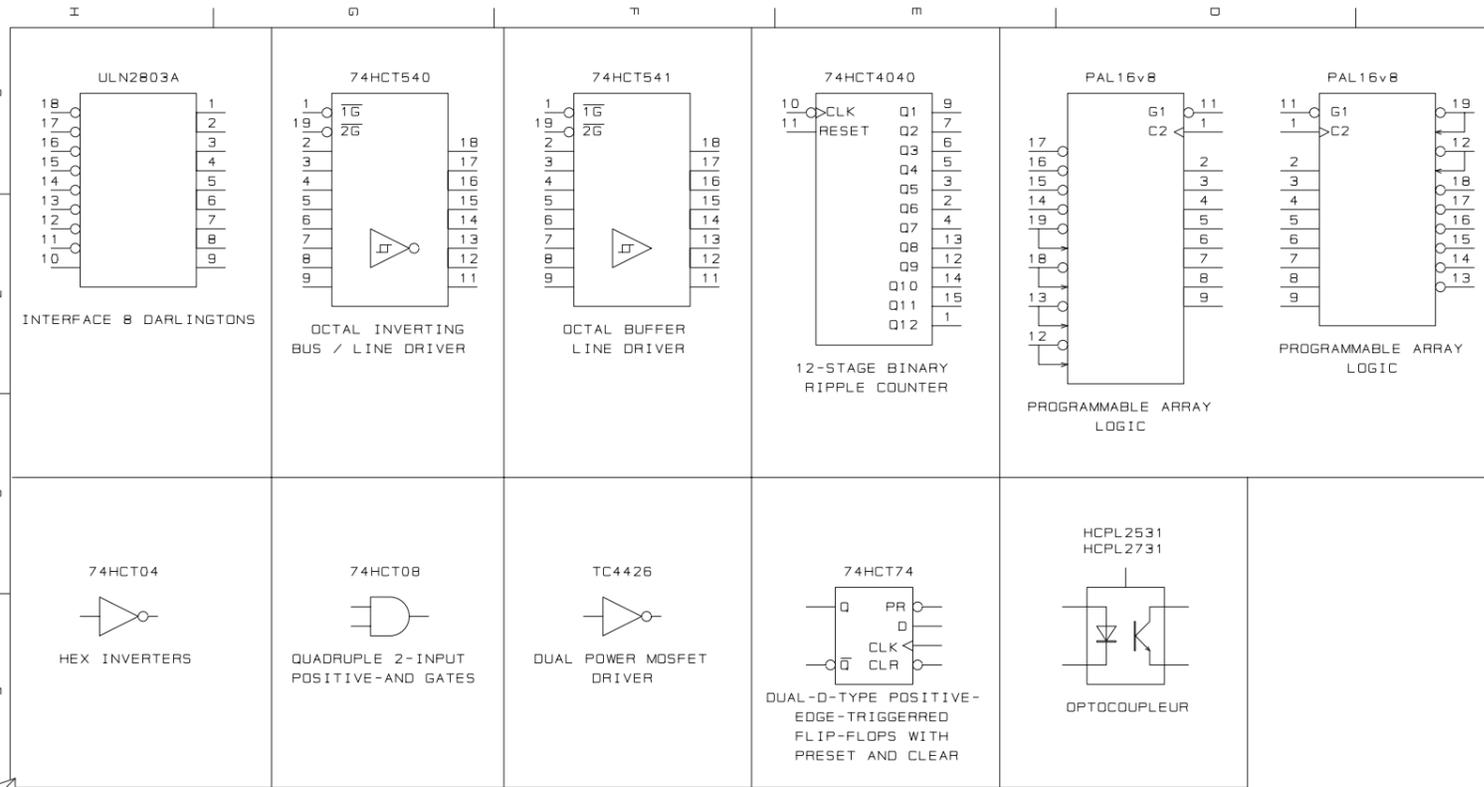


14-5

MP Phase 41 A5 A2

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14-6



IC	+5V	GNDLOG	CAPACITOR
B3	20	10	C103
B4	20	10	C104
B5	14	7	C105
B6	20	10	C106
B7	20	10	C107
B8	14	7	C108
B9	14	7	C109
B10	20	10	C110
B11	20	10	C111
B12	20	10	C112
B13	16	8	C113
B14	16	8	C114
B15	20	10	C115
B16	20	10	C116
B17	14	7	C117
B18	20	10	C118
B19	16	8	C119
B20	16	8	C120
B25	16	8	C125
B26	16	8	C126
B31	14	7	C131
B32	20	10	C132
B41	14	7	C141
B42	20	8	C142
B52	20	10	C151
B53	20	10	C152
B54	20	10	C154

MP Phase 41 A5 A2

2139534A.PLS

REVISE	DATE	REVISE	TITRE
SYSTEME	30-08-95		
WIRAGE	30-08-95		
CLAYRE	30-08-95		
ENCCELLAZ	30-08-95		

GE Medical Systems	NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE	2139533 SCH	3	N NBR 05 05
		A	REV

N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA	ADM

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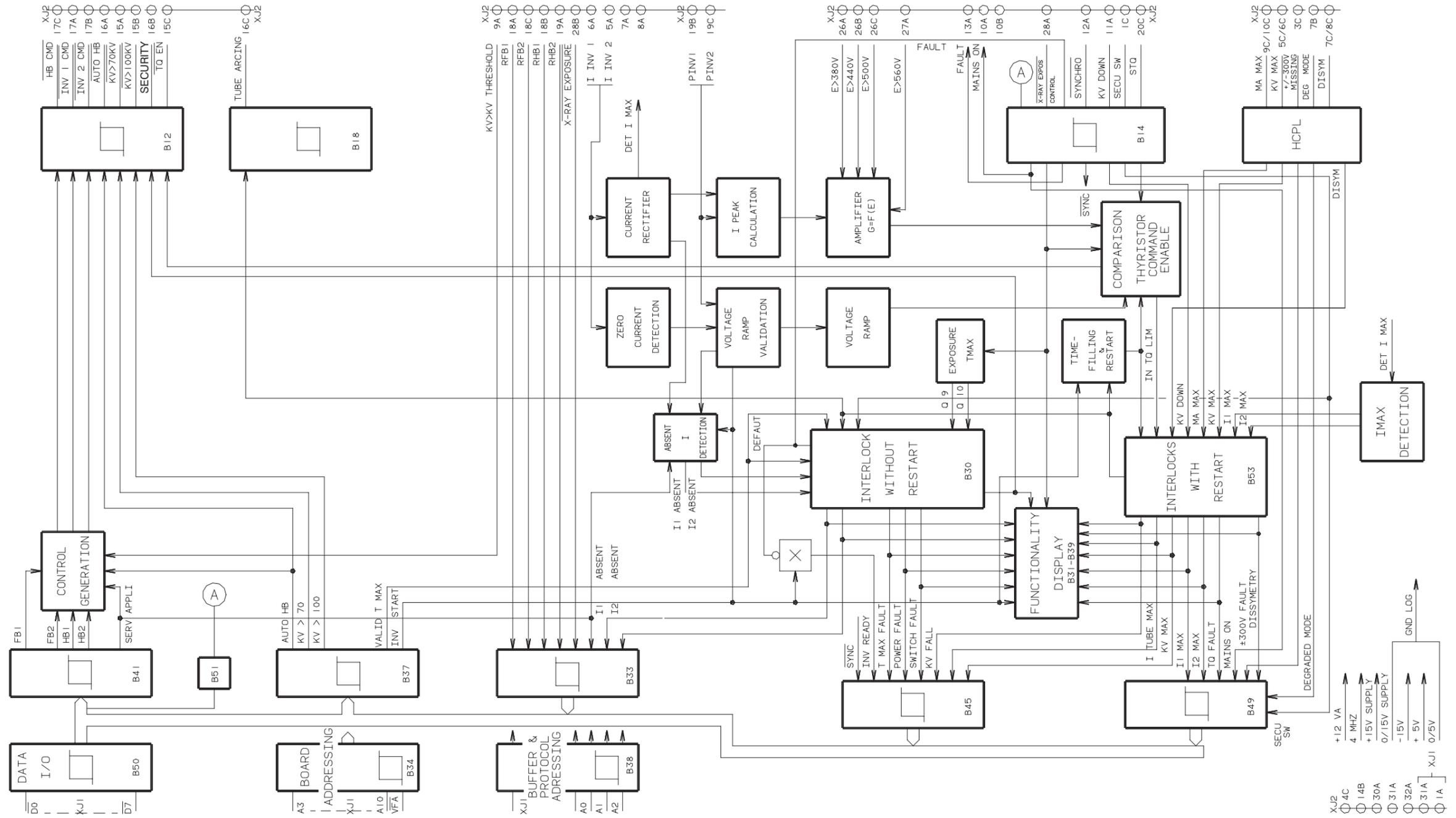
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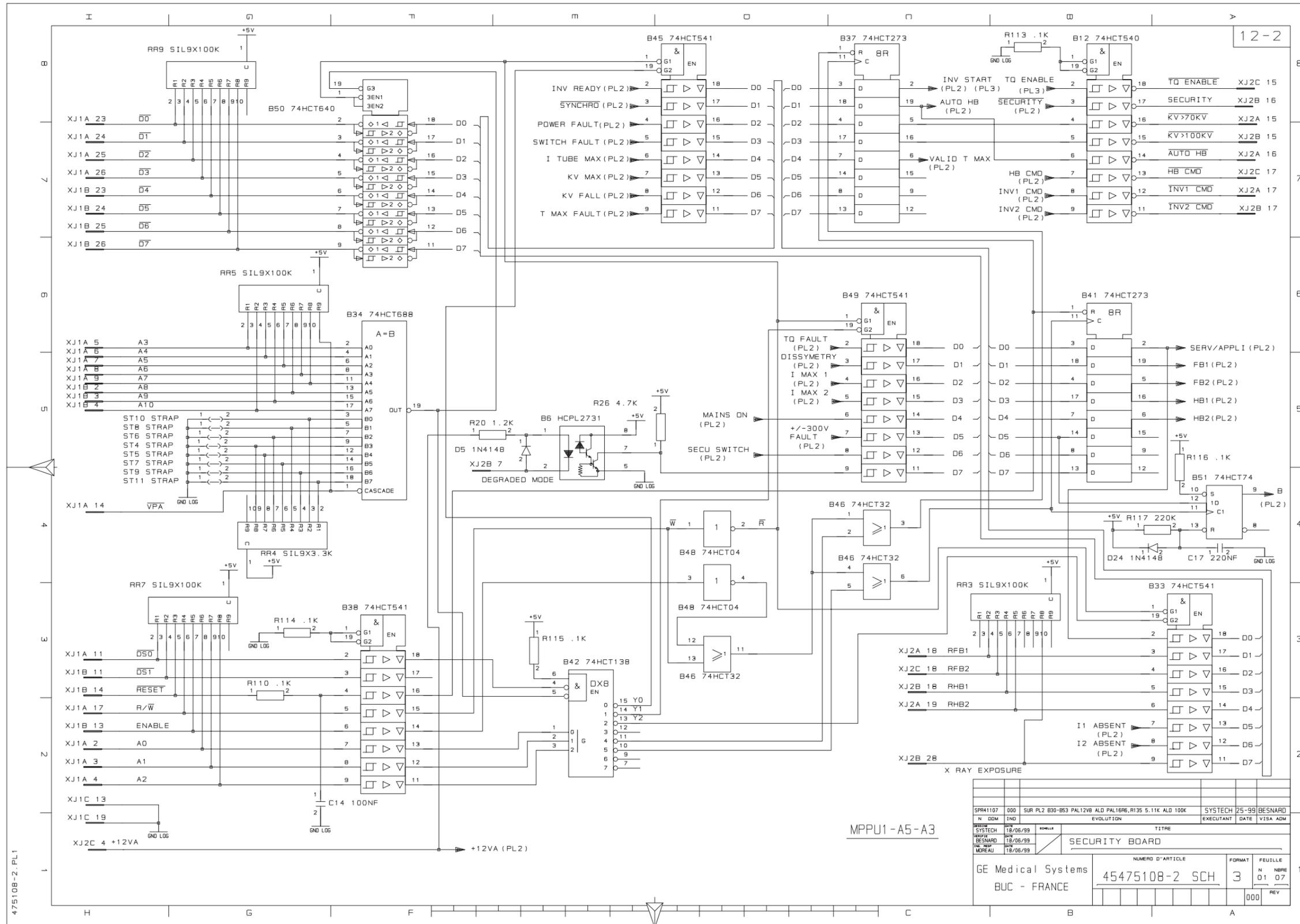
15-0

MP PHASE 41 A5 A3 – SECURITY BOARD

TQ EN	Enable given by TQ min interlock
AUTO HB	Half bridge enable – enables half-bridge connection when KV threshold is reactivated
INV1 CMD	Inverter 1 Command
INV2 CMD	Inverter 2 Command
HB CMD	Half bridge command
SECURITY	One security activated
RFB1	Feedback Full bridge 1
RFB2	Feedback Full bridge 2
RHB1	Feedback Half bridge 1
RHB2	Feedback Half bridge 2
I INV 1	Current into inverter 1
I INV 2	Current into inverter 2
E > 380 V	Inverter dc voltage > 380 V
E > 440 V	Inverter dc voltage > 440 V
E > 500 V	Inverter dc voltage > 500 V
E > 560 V	Inverter dc voltage > 560 V
STQ	Thyristor tq limitation

MP PHASE 41 A5 A3 – SECURITY BOARD BLOCK DIAGRAM

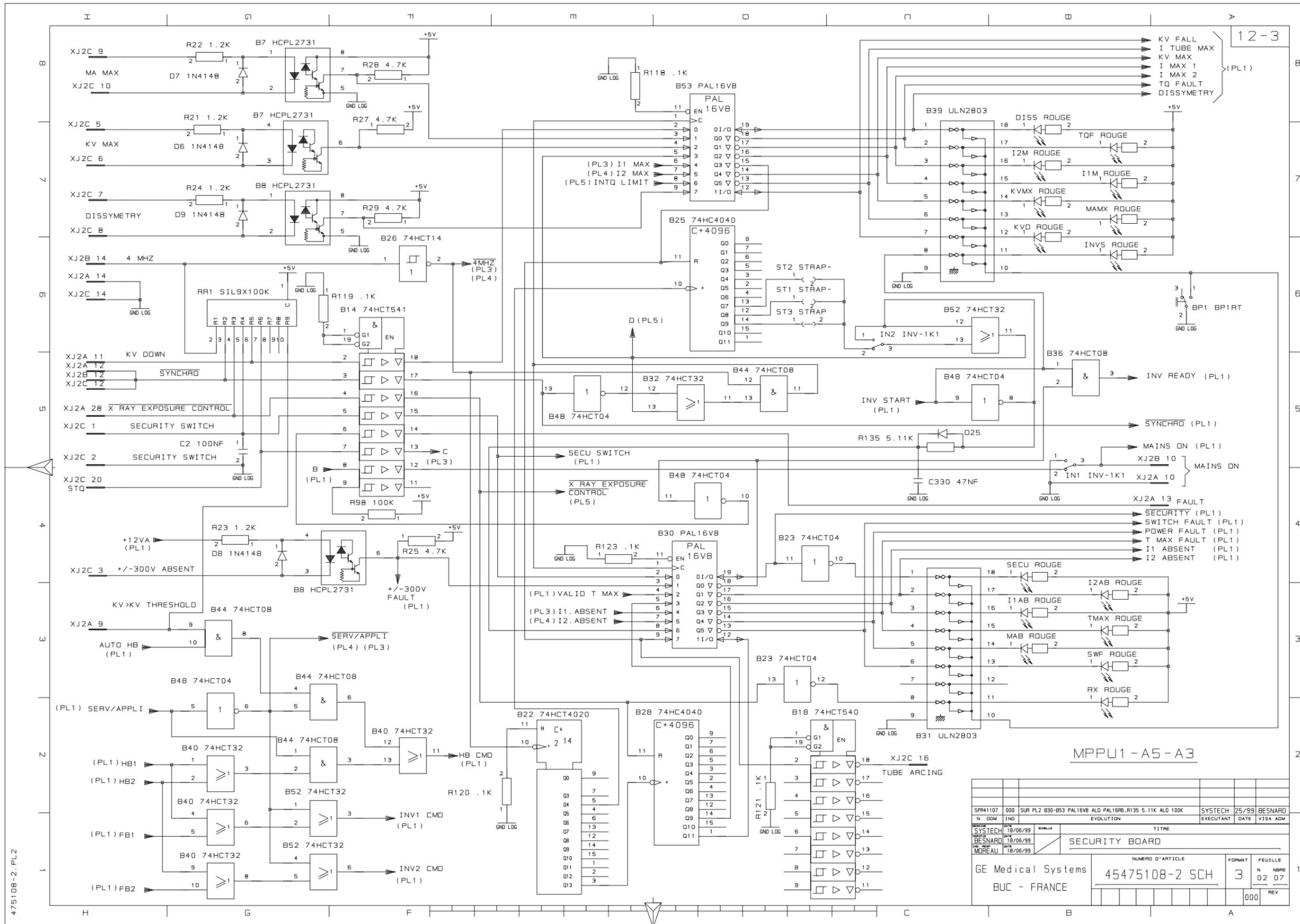




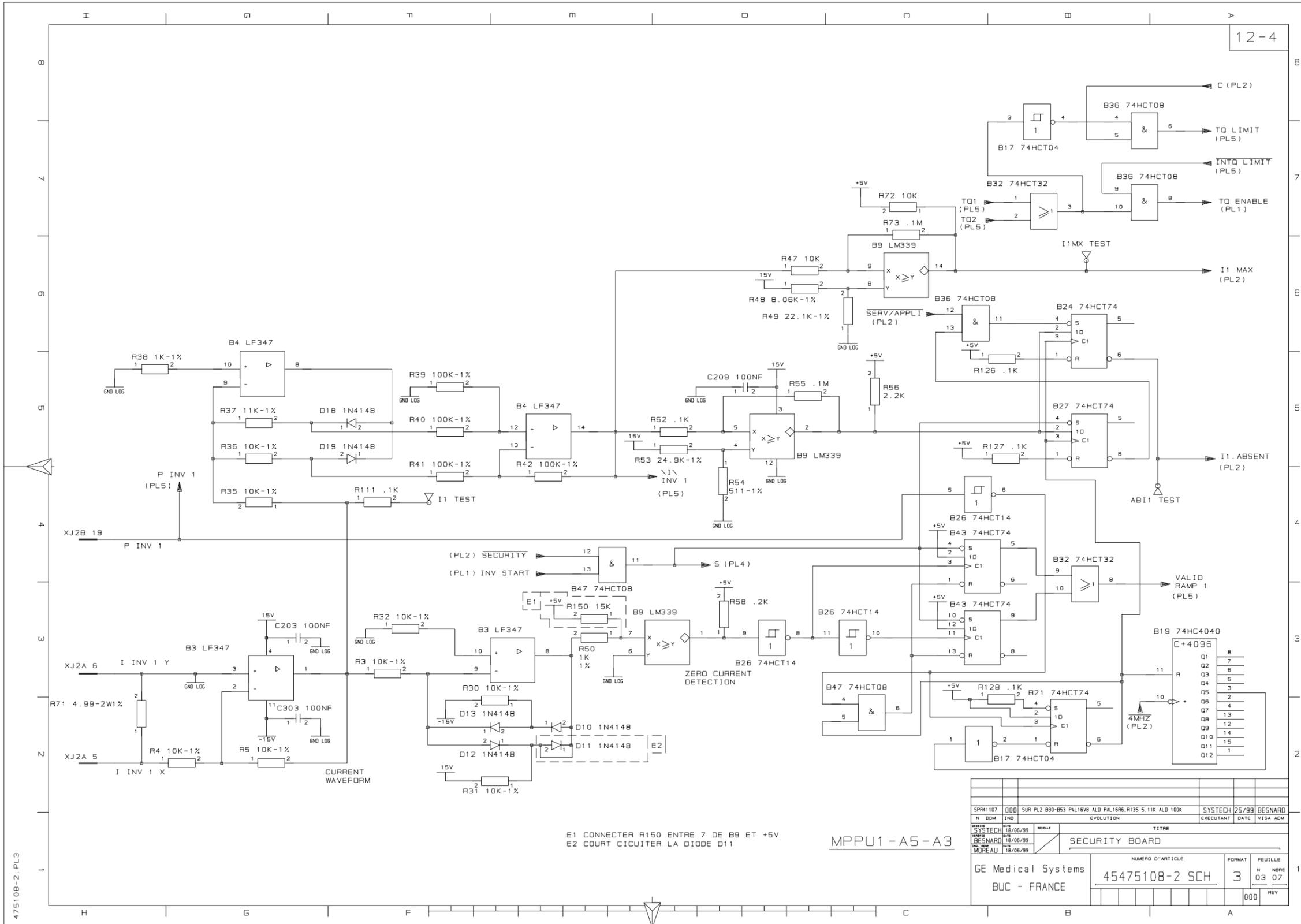
MPPU1-A5-A3

SPR41107	000	SUR PL2 B30-B53 PAL12VB ALD PAL16RB,R135 5.11K ALD 100K	SYSTECH 25-99	BESNARD
N	DDM	IND	EVOLUTION	EXECUTANT
DATE	DATE	DATE	DATE	DATE
18/06/99	18/06/99	18/06/99	18/06/99	18/06/99
SECURITY BOARD				
GE Medical Systems		NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE		45475108-2 SCH	3	N 01 07
				REV
				000

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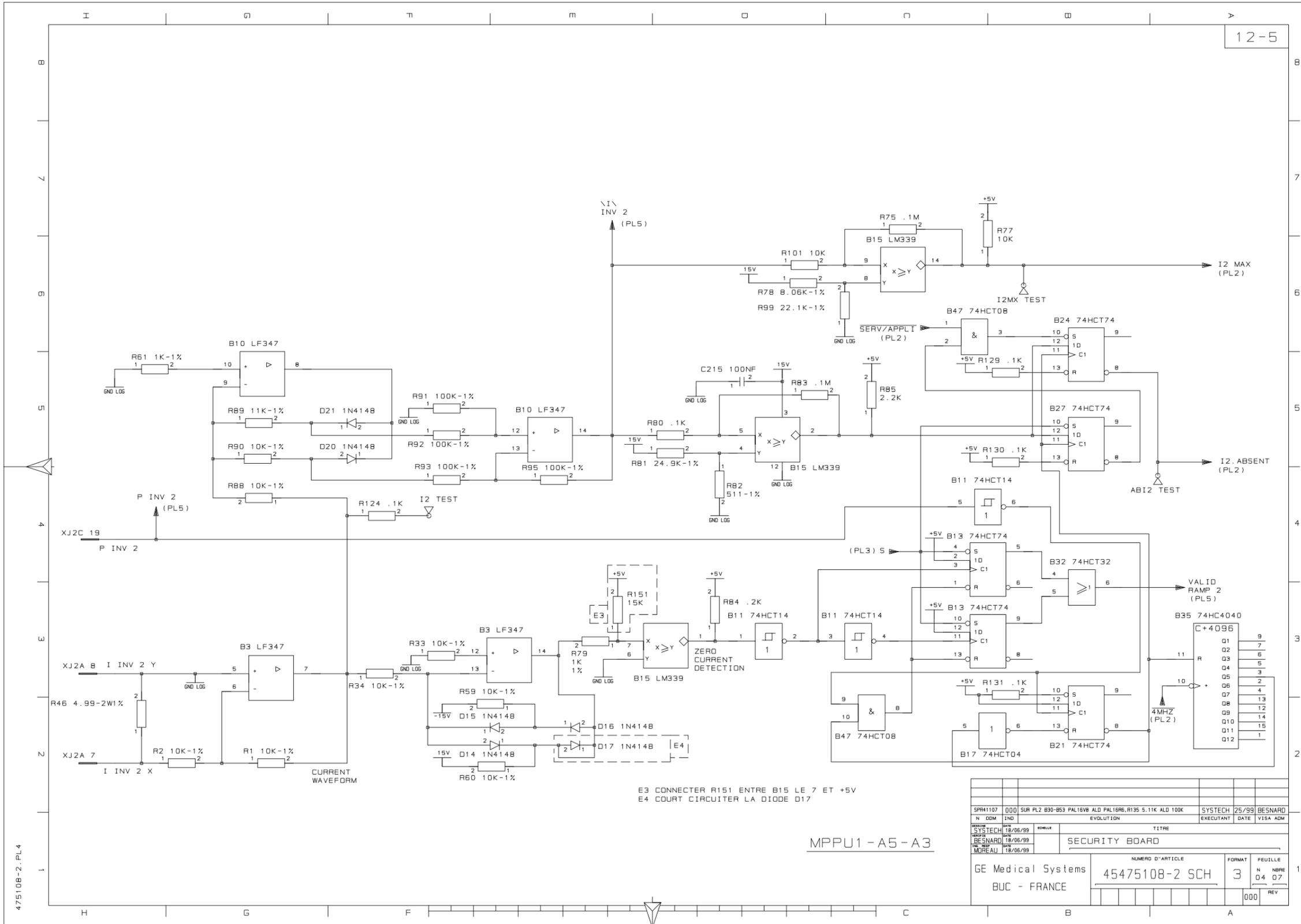


E1 CONNECTER R150 ENTRE 7 DE B9 ET +5V
E2 COURT CICUITER LA DIODE D11

MPPU1 -A5 -A3

SPR41107	000	SUR PL2 B30-B53 PAL16V8 ALD PAL16R6, R135 5.11K ALD 100K	SYSTECH	25/99	BESNARD
N	DDM	IND	EVOLUTION		EXECUTANT DATE VISA ADM
DATE	SYSTECH	18/06/99	TITRE		
DATE	BESNARD	18/06/99	SECURITY BOARD		
DATE	MUREAU	18/06/99			
GE Medical Systems		NUMERO D'ARTICLE	FORMAT	FEUILLE	
BUC - FRANCE		45475108-2 SCH	3	N NBRRE	
				03 07	
				000 REV	

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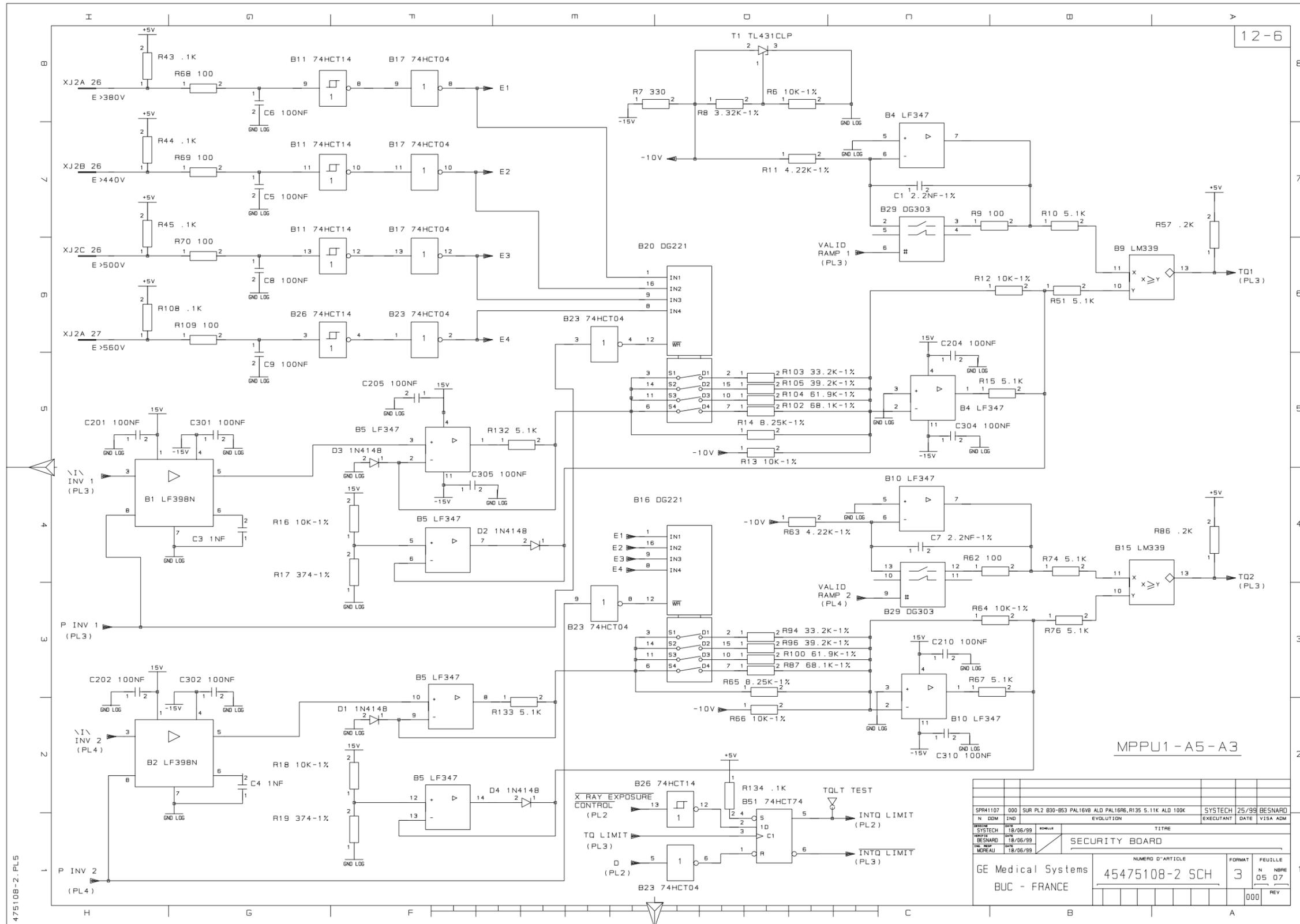


E3 CONNECTER R151 ENTRE B15 LE 7 ET +5V
E4 COURT CIRCUITER LA DIODE D17

MPPU1-A5-A3

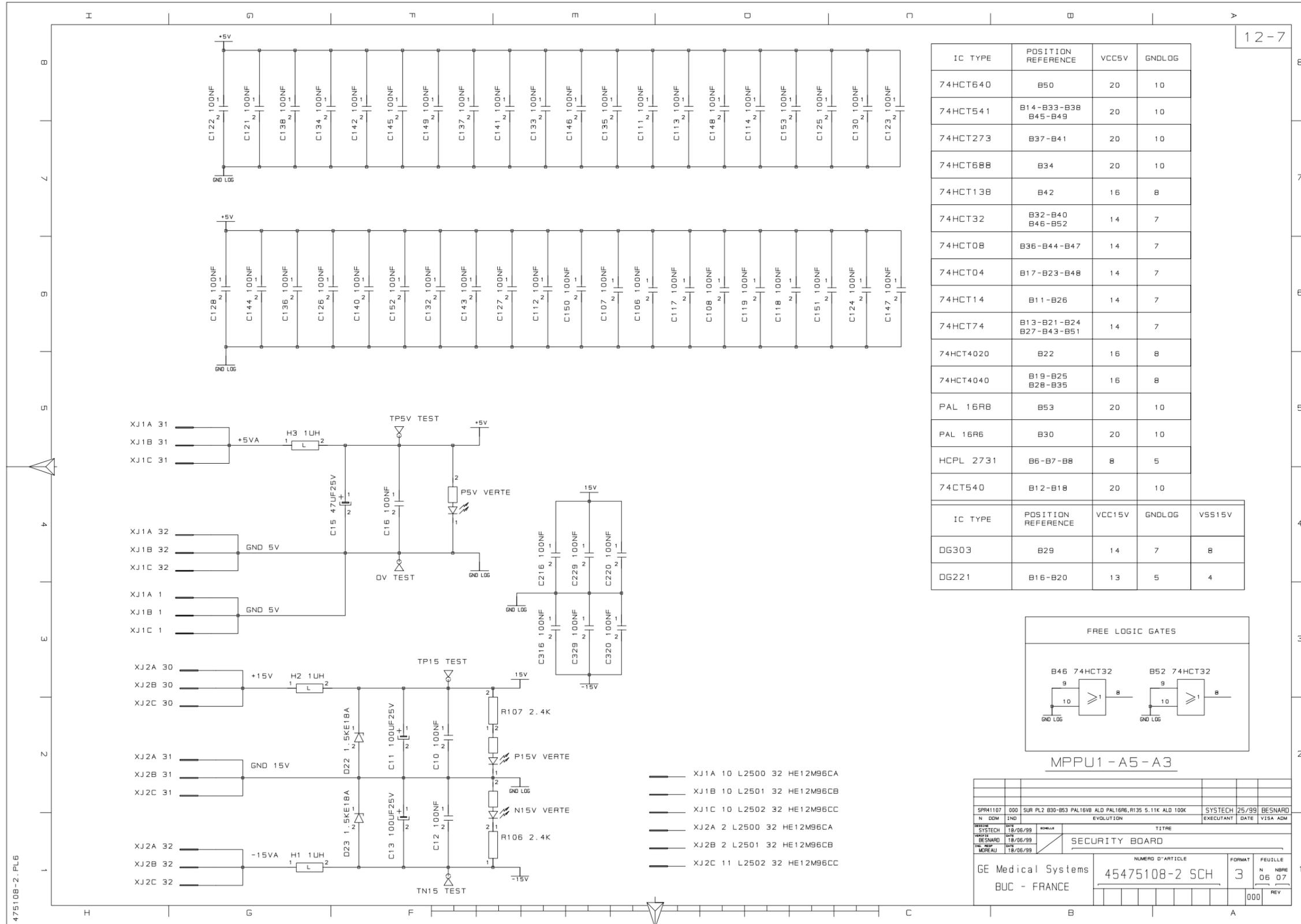
SPR41107	000	SUR PL2 B30-B53 PAL16VB ALD PAL16RB,R135 5.11K ALD 100K	SYSTECH	25/99	BESNARD
N	DDM	IND	EVOLUTION		EXECUTANT
DATE	DATE	REV	TITRE		
18/06/99	18/06/99		SECURITY BOARD		
GE Medical Systems		NUMERO D'ARTICLE		FORMAT	FEUILLE
BUC - FRANCE		45475108-2 SCH		3	N 04 07
				000	REV

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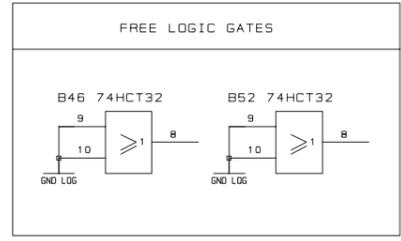
SPR41107		000	SUR PL2 B30-B53 PAL16V8 ALD PAL16R6, R135 5.1K ALD 100K		SYSTECH	25/99	BESNARD
N	DDM	IND	EVOLUTION		EXECUTANT	DATE	VISA ADM
DESIGNER	SYSTECH	DATE	18/06/99	REV	TITRE		
DRAWN	BESNARD	DATE	18/06/99	REV	SECURITY BOARD		
CHK. DESP.	BESNARD	DATE	18/06/99	REV	SECURITY BOARD		
CHK. DESP.	MUREAU	DATE	18/06/99	REV	SECURITY BOARD		
GE Medical Systems		NUMERO D'ARTICLE		FORMAT	FEUILLE		
BUC - FRANCE		45475108-2 SCH		3	N° 05		07
				000	REV		

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IC TYPE	POSITION REFERENCE	VCC5V	GNOLOG
74HCT640	B50	20	10
74HCT541	B14-B33-B38 B45-B49	20	10
74HCT273	B37-B41	20	10
74HCT688	B34	20	10
74HCT138	B42	16	8
74HCT32	B32-B40 B46-B52	14	7
74HCT08	B36-B44-B47	14	7
74HCT04	B17-B23-B48	14	7
74HCT14	B11-B26	14	7
74HCT74	B13-B21-B24 B27-B43-B51	14	7
74HCT4020	B22	16	8
74HCT4040	B19-B25 B28-B35	16	8
PAL 16R8	B53	20	10
PAL 16R6	B30	20	10
HCPL 2731	B6-B7-B8	8	5
74CT540	B12-B18	20	10

IC TYPE	POSITION REFERENCE	VCC15V	GNOLOG	VSS15V
DG303	B29	14	7	8
DG221	B16-B20	13	5	4

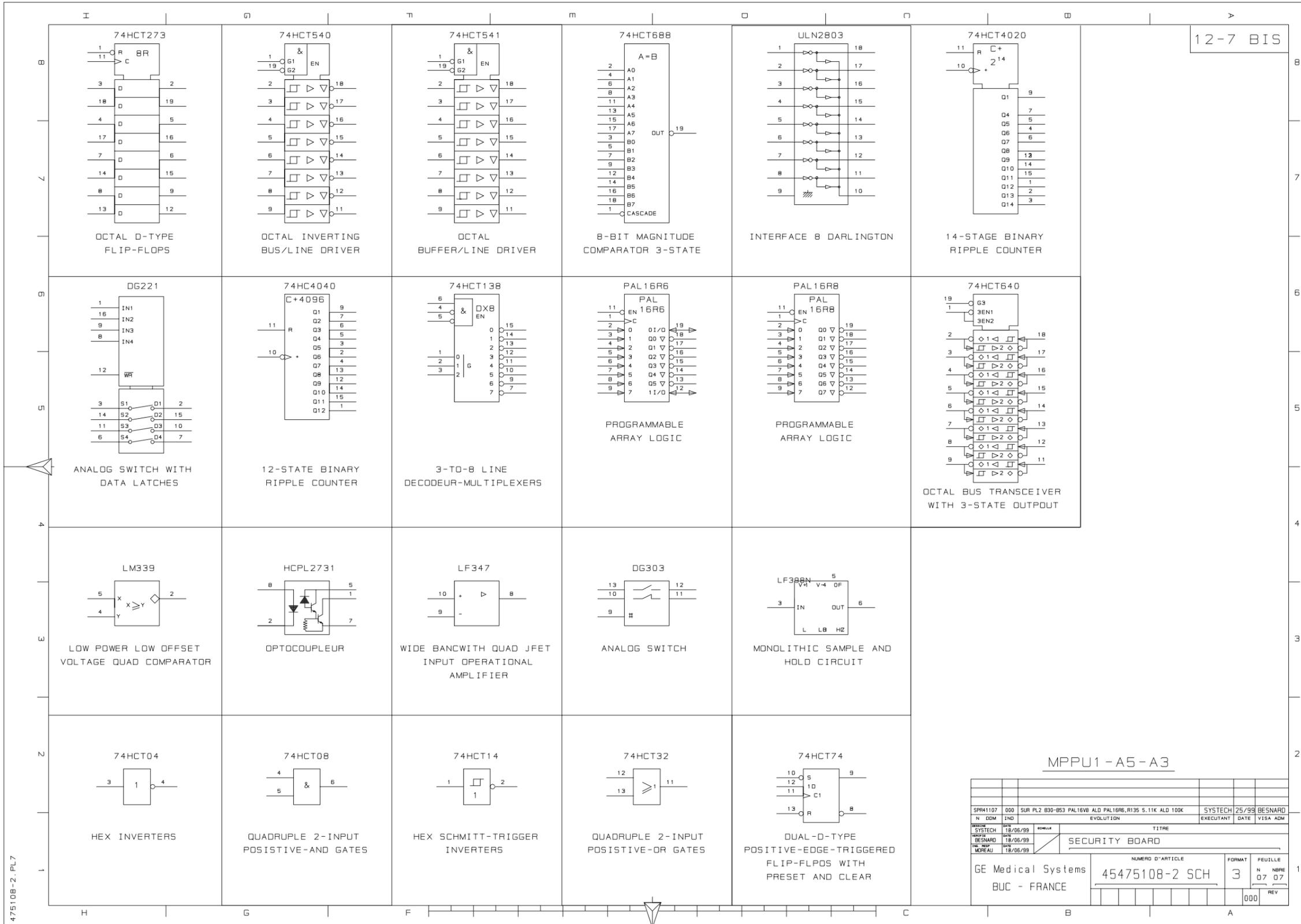


MPPU1 - A5 - A3

- XJ1A 10 L2500 32 HE12M96CA
- XJ1B 10 L2501 32 HE12M96CB
- XJ1C 10 L2502 32 HE12M96CC
- XJ2A 2 L2500 32 HE12M96CA
- XJ2B 2 L2501 32 HE12M96CB
- XJ2C 11 L2502 32 HE12M96CC

SPR41107	000	SUR PL2 B30-B53 PAL16V8 ALD PAL16R6,R135 5.11K ALD 100K	SYSTECH	25/99	BESNARD
N	DDM	IND	EVOLUTION	EXECUTANT	DATE
REVISEUR	DATE	REVISEUR	DATE	REVISEUR	DATE
SYSTECH	18/06/99	BESNARD	18/06/99	MOREAU	18/06/99
SECURITY BOARD					
GE Medical Systems		NUMERO D'ARTICLE		FORMAT	FEUILLE
BUC - FRANCE		45475108-2 SCH		3	N 06 07
				000	REV

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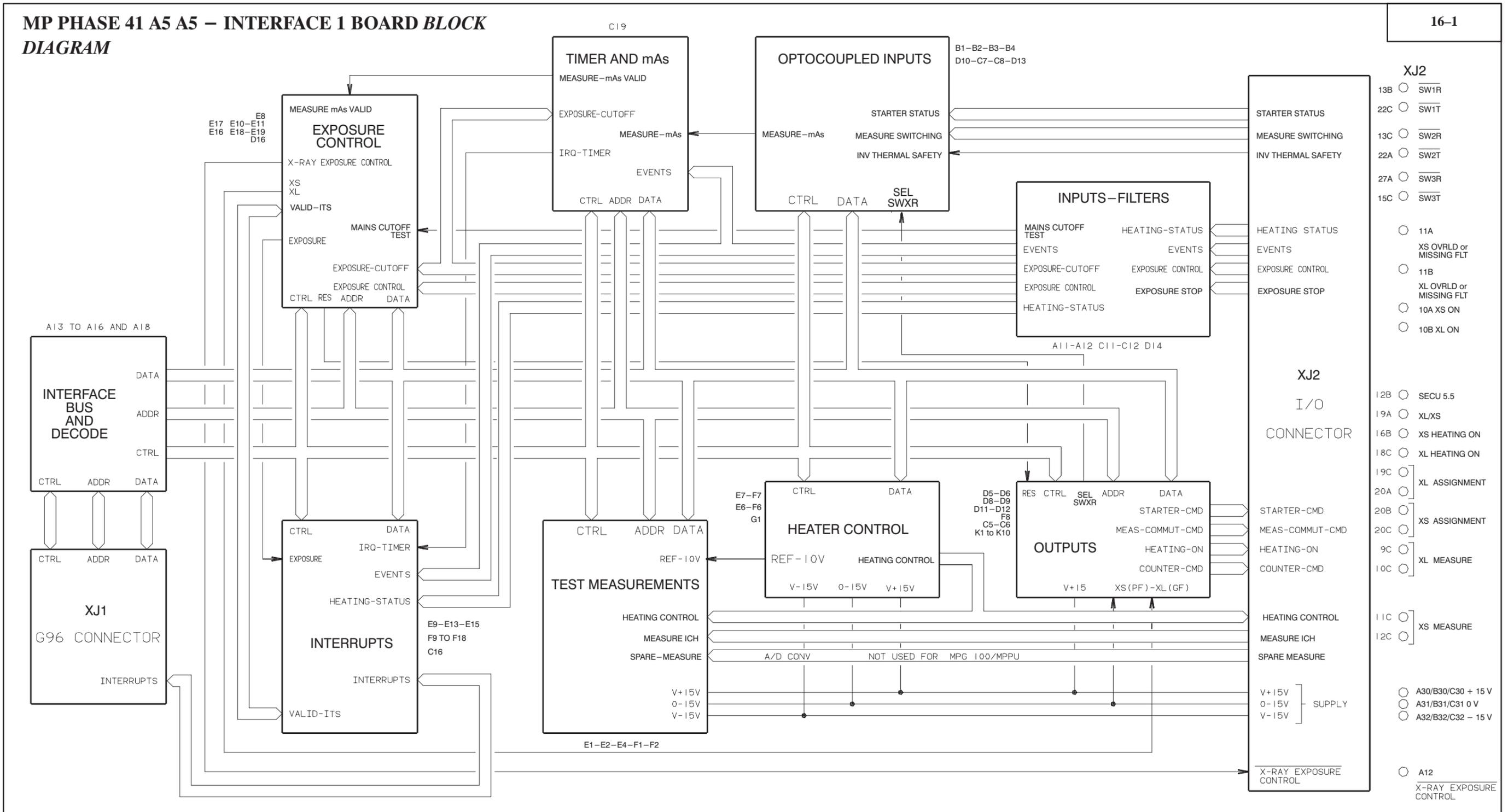
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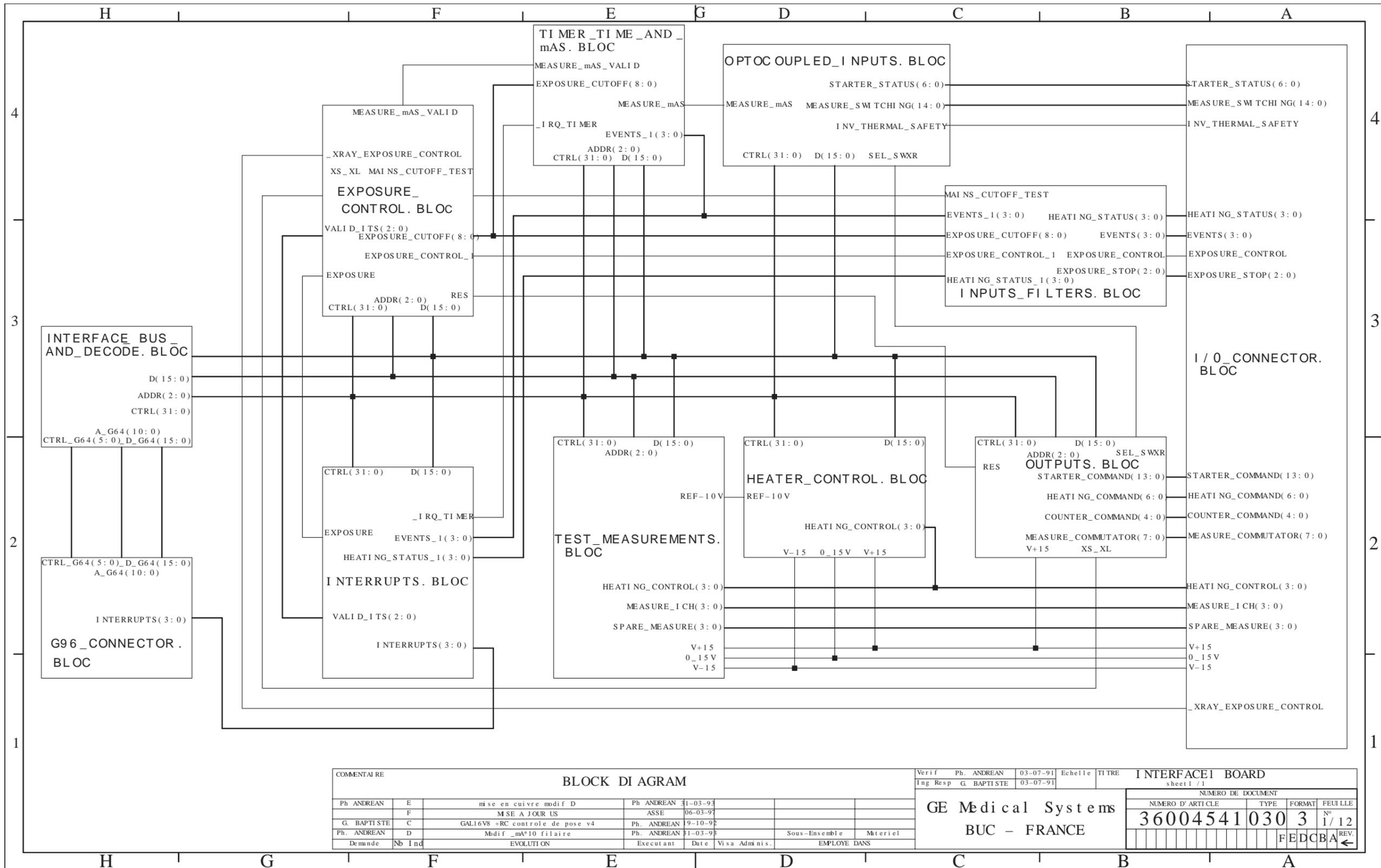
MNEMONICS

16-0

MP PHASE 41 A5 A5 – INTERFACE 1 BOARD

SW1 R	High voltage switch 1 Feedback
SW1 T	High voltage switch 1 Feedback
SW2 R	High voltage switch 2 Feedback
SW2 T	High voltage switch 2 Feedback
SW3 R	High voltage switch 3 Feedback
SW3 T	High voltage switch 3 Feedback



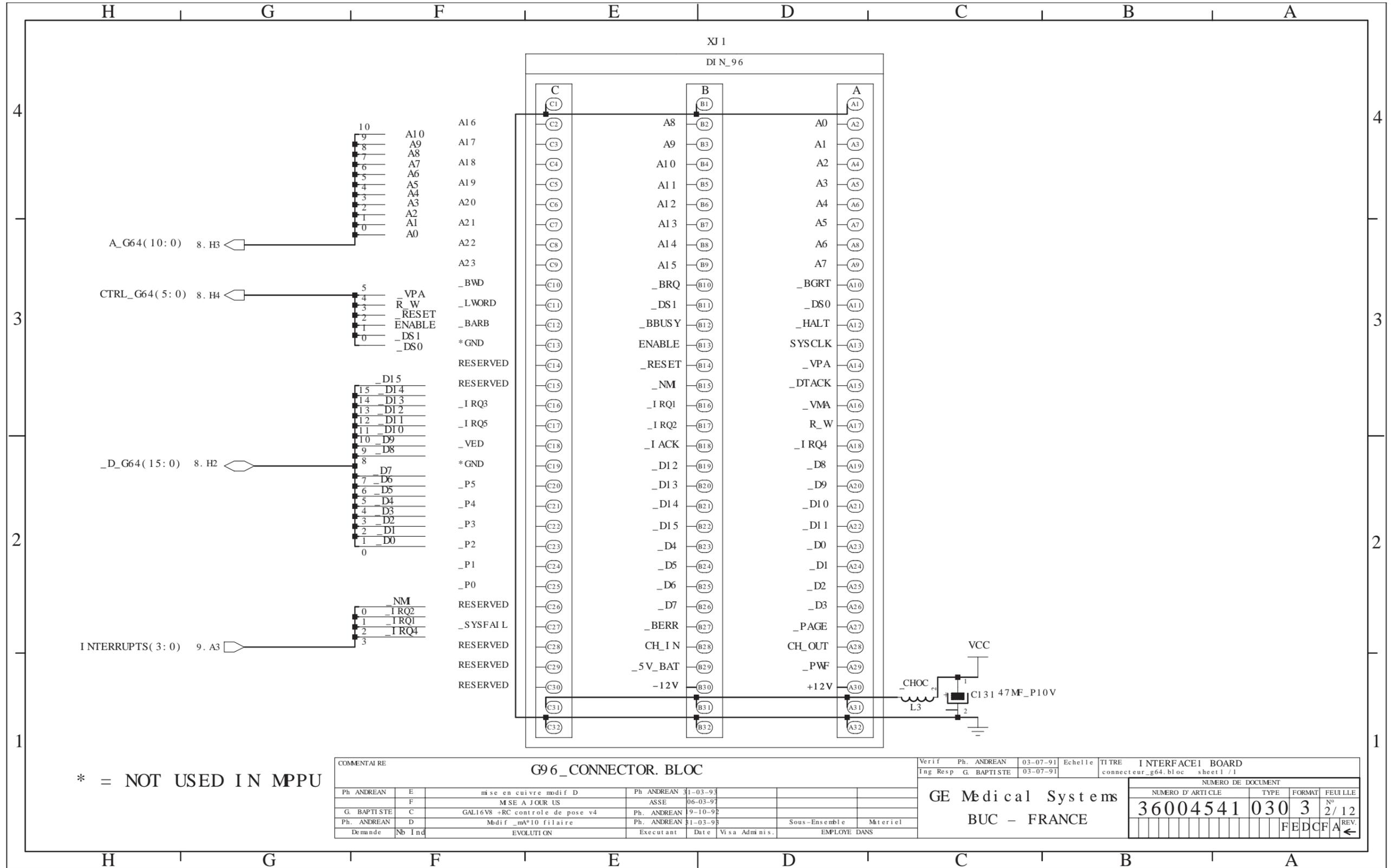


COMMENTAIRE				BLOCK DI AGRAM			
Ph ANDREAN	E	mise en cuivre mdif D	Ph ANDREAN	31-03-93			
	F	MISE A JOUR US	ASSE	06-03-97			
G. BAPTISTE	C	GAL16V8 +RC controle de pose v4	Ph. ANDREAN	9-10-92			
Ph. ANDREAN	D	Mdif_mA*10 filaire	Ph. ANDREAN	31-03-93			
Demnde	Nb	Ind	EVOLUTION	Executant	Date	Visa Admis.	EMPLOYE DANS

Verif	Ph. ANDREAN	03-07-91	Echelle	TI TRE	INTERFACE1 BOARD		
Ing Resp	G. BAPTISTE	03-07-91			sheet 1 / 1		
NUMERO DE DOCUMENT							
NUMERO D'ARTICLE		TYPE	FORMAT	FEUILLE			
36004541030		3		1 / 12			
FEDCBA ←							

GE Medical Systems
BUC - FRANCE

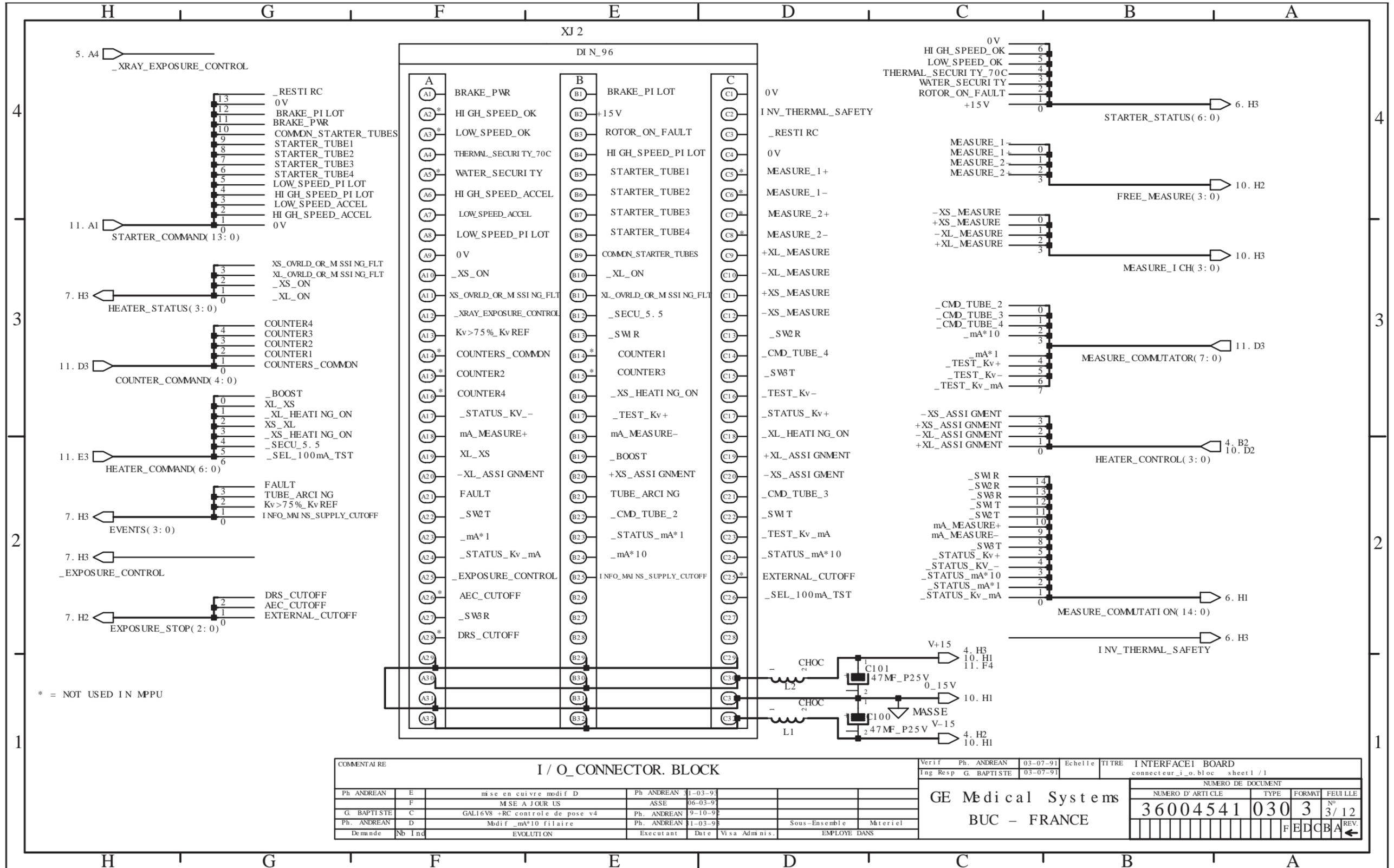
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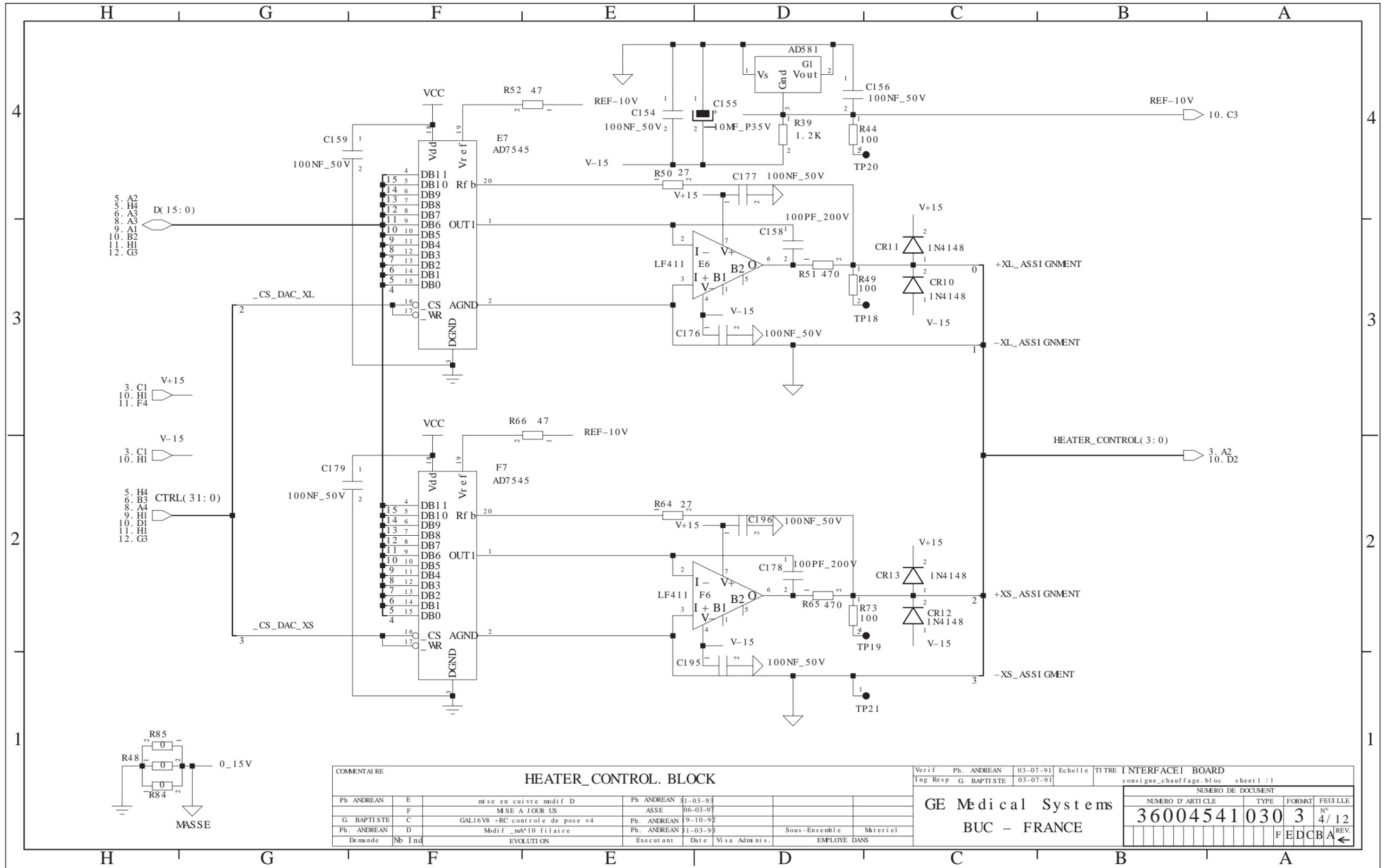
* = NOT USED IN MPPU

COMMENTAIRE				G96_CONNECTOR. BLOC				Verif Ph. ANDREAN 03-07-91 Echelle				TI TIRE I NTERFACE1 BOARD			
								Ing Resp G. BAPTISTE 03-07-91				connecteur_g64_bloc sheet1/1			
Ph ANDREAN	E	mise en cuivre modif D		Ph ANDREAN	31-03-93			GE Medical Systems				NUMERO DE DOCUMENT			
	F	MISE A JOUR US		ASSE	06-03-97							NUMERO D'ARTICLE				TYPE	FORMAT	FEUILLE
G. BAPTISTE	C	GAL16VS +RC controle de pose v4		Ph. ANDREAN	9-10-92			36004541				030	3	N° 2/12	
Ph. ANDREAN	D	Mdif_m*10 filaire		Ph. ANDREAN	31-03-93			BUC - FRANCE						FEDCFA	REV. ←
Demande	Nb	Ind	EVOLUTION	Executant	Date	Visa	Adminis.	EMPLOYE DANS							

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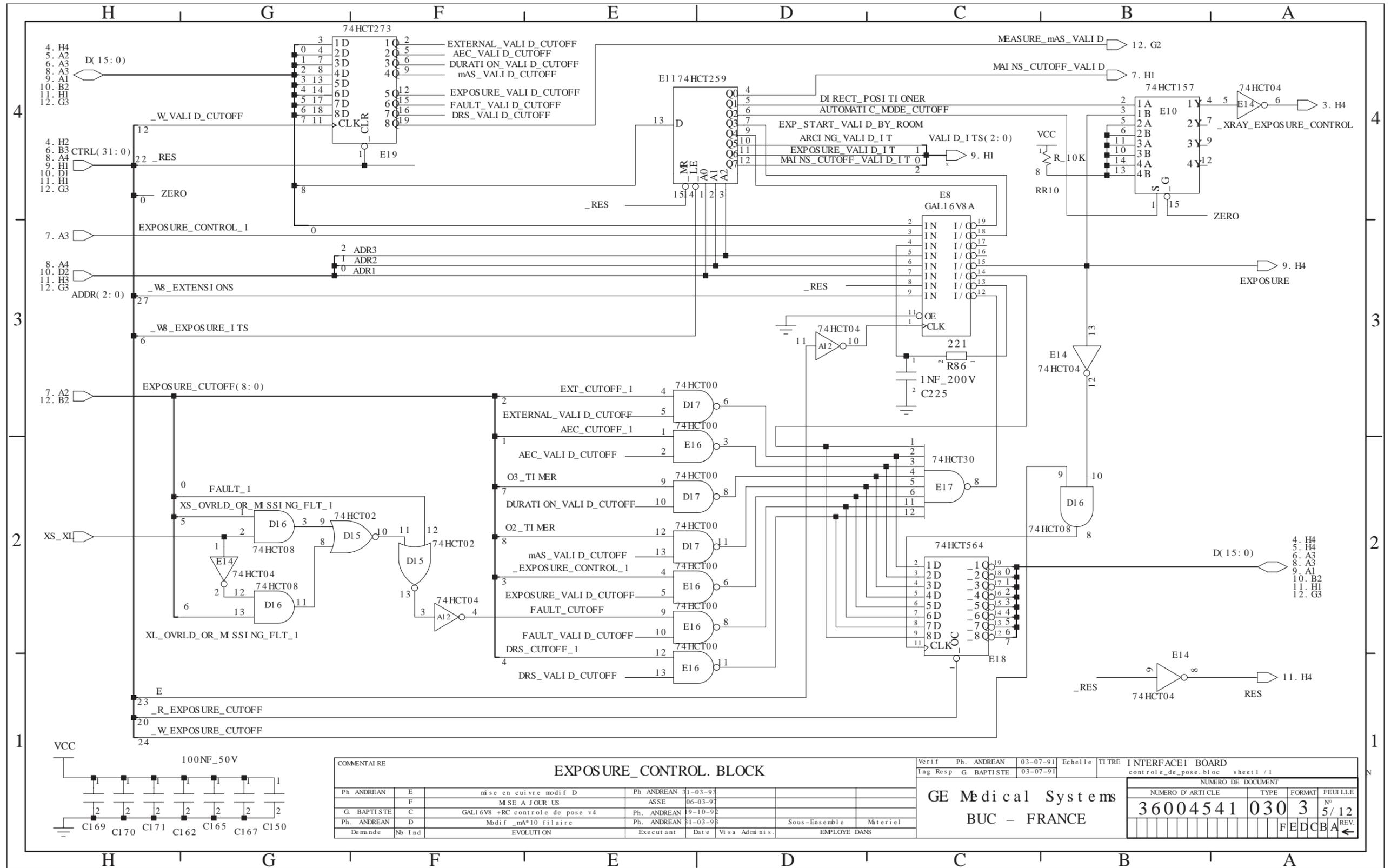


COMMENTAIRE					
Ph ANDREAN	E	mise en cuivre modif D	Ph ANDREAN	31-03-93	
	F	MSE A JOUR US	ASSE	06-03-97	
G. BAPTISTE	C	GAL16V8 +RC controle de pose v4	Ph. ANDREAN	19-10-92	
Ph. ANDREAN	D	Mdif _mA*10 filaire	Ph. ANDREAN	31-03-93	
Demnde	Nb Ind	EVOLUTION	Executant	Date	Visa Adm n s.

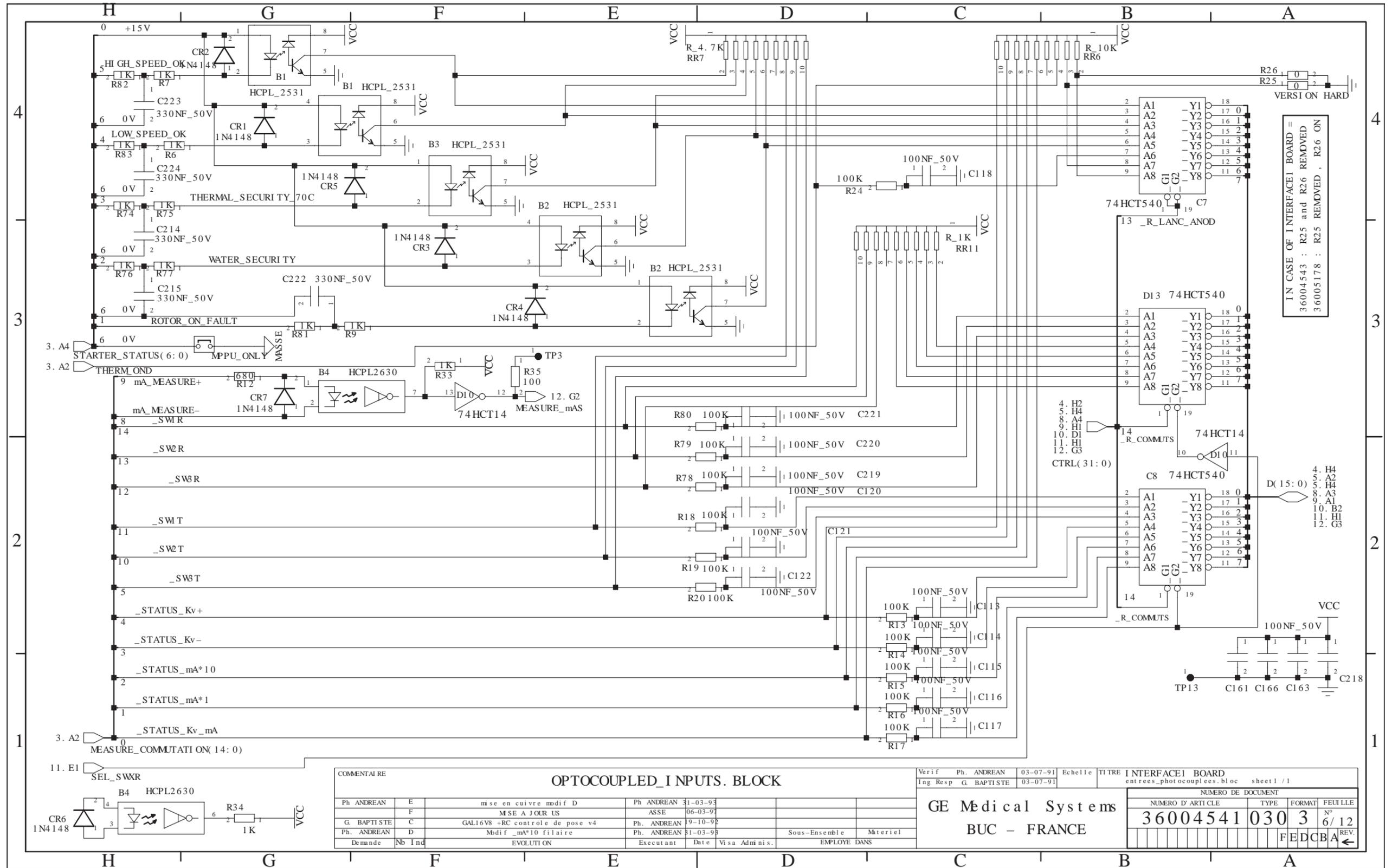
Verif	Ph. ANDREAN	03-07-91	Echelle	TITRE	INTERFACE1 BOARD
Ing Resp	G. BAPTISTE	03-07-91			consigne_chauffage_bloc sheet1 / 1
NUMERO DE DOCUMENT					
NUMERO D'ARTICLE		TYPE	FORMAT	FEUILLE	
36004541030		3	3	4 / 12	
F E D C B A ←					

GE Medical Systems
BUC - FRANCE

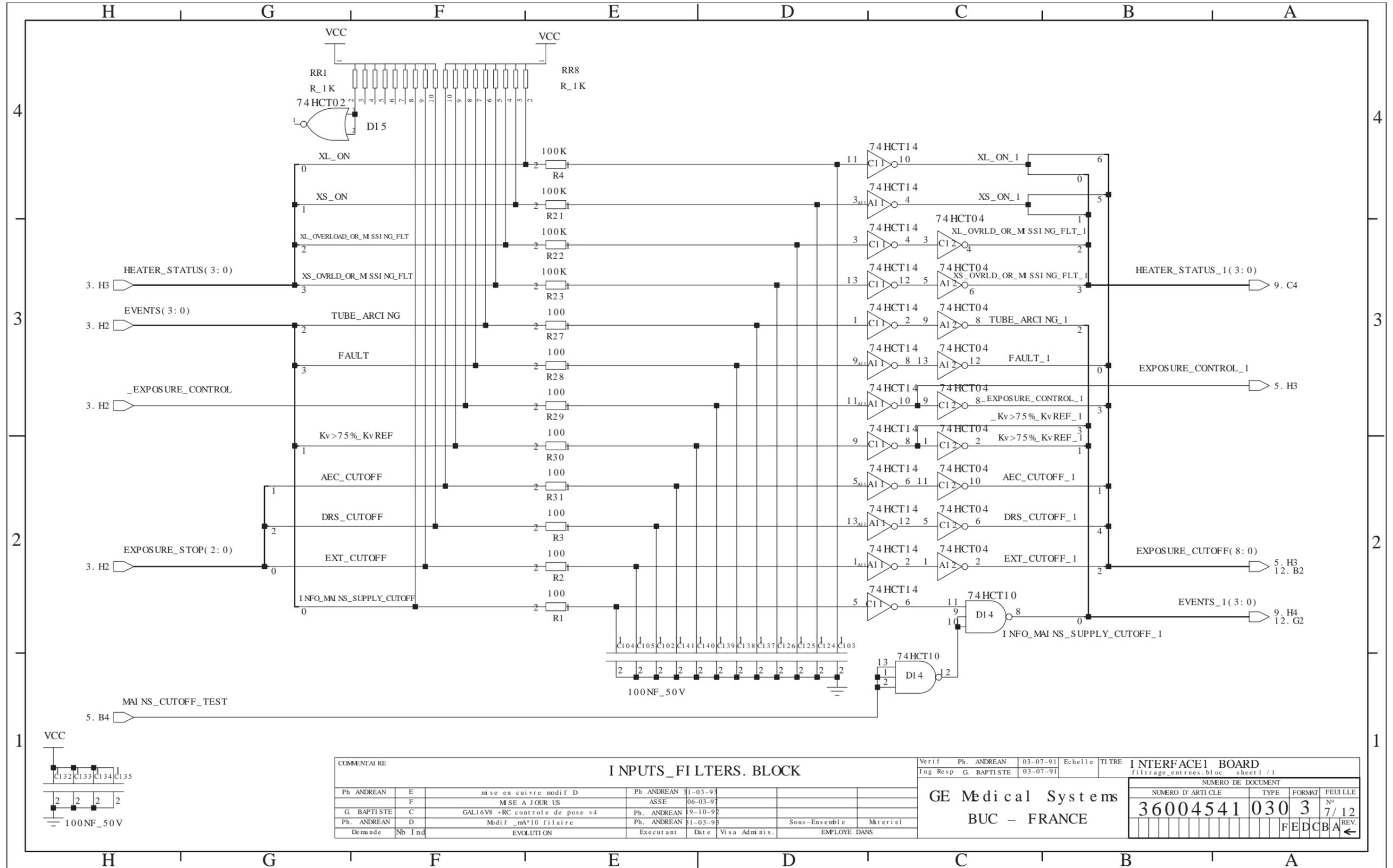
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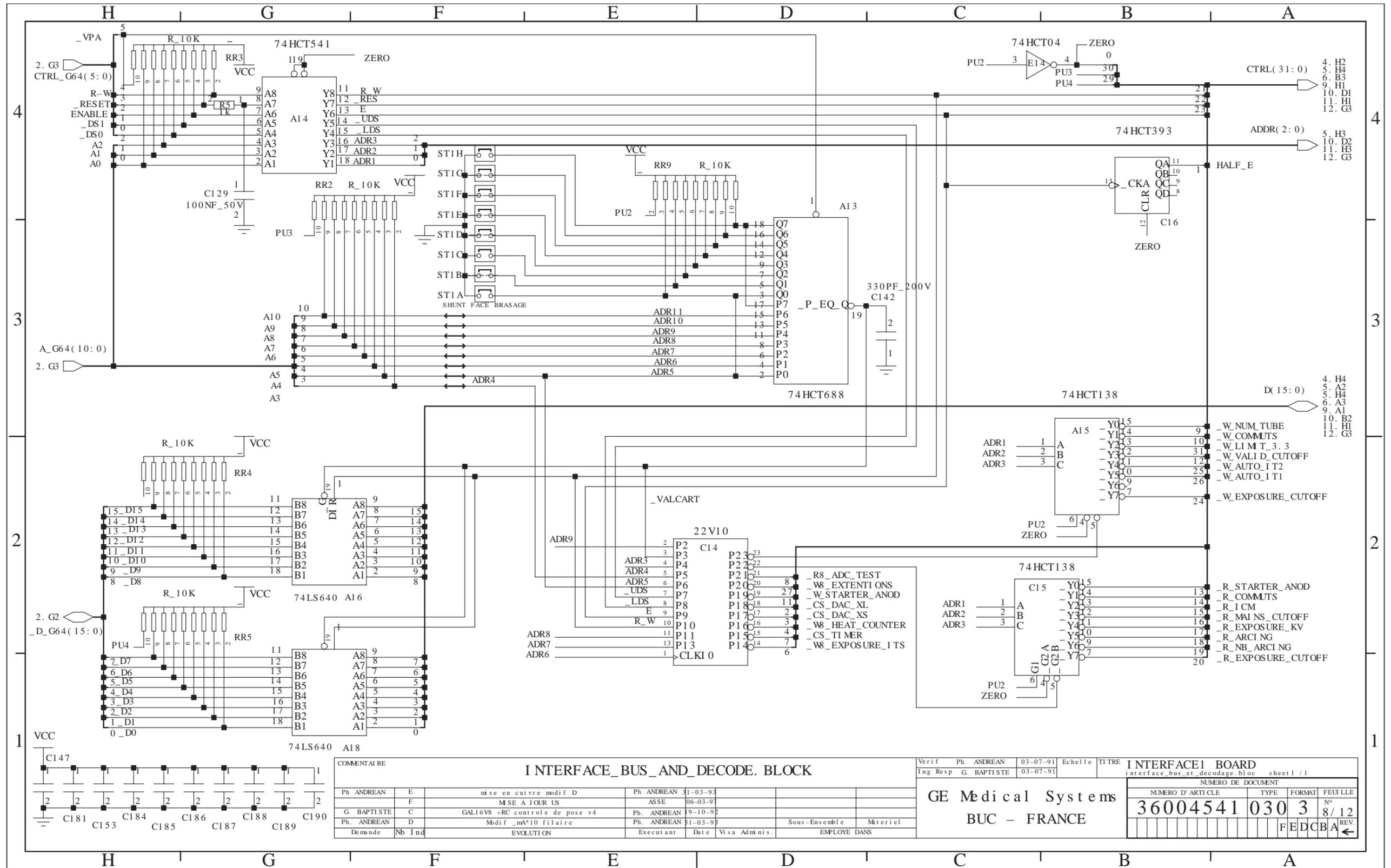


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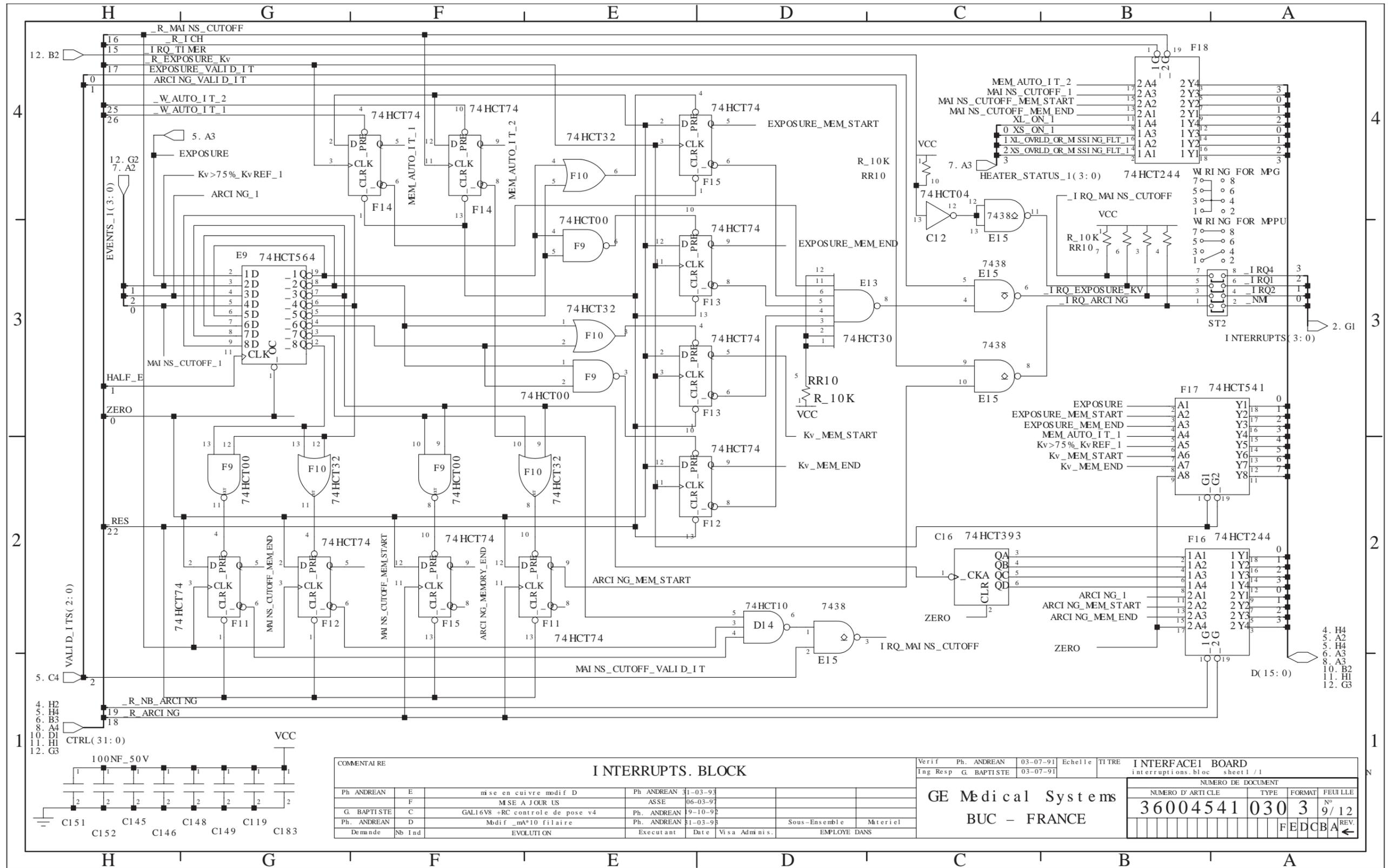
COMMENTAIRE				I INPUTS_FILTERS_BLOCK				Verif Ph. ANDREAN 03-07-91 Echelle		TITRE INTERFACE1 BOARD	
								Ing Resp G. BAPTISTE 03-07-91		filtrage_entrees_bloc sheet 1 / 1	
Ph. ANDREAN	E	mise en cuivre modif D	Ph. ANDREAN	31-03-93				GE Medical Systems BUC - FRANCE			
	F	MISE A JOUR US	ASSE	06-03-97							
G. BAPTISTE	C	GAL16VS +RC controle de pose v4	Ph. ANDREAN	9-10-92				NUMERO DE DOCUMENT NUMERO D'ARTICLE TYPE FORMAT FEUILLE 36004541 030 3 N° 7/12			
Ph. ANDREAN	D	Mdif_mA*10 filaire	Ph. ANDREAN	31-03-93				F E D C B A REV. ←			
Demande	Nb	Ind	EVOLUTION	Executant	Date	Visa Adminis.	EMPLOYE DANS				

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COMMENTAIRE				I N T E R F A C E _ B U S _ A N D _ D E C O D E . B L O C K				Verif Ph. ANDREAN 03-07-91 Echelle		TITRE I N T E R F A C E 1 B O A R D					
								Ing Resp G. BAPTISTE 03-07-91		interface_bus_et_decodage_bloc sheet 1 / 1					
Ph ANDREAN E mise en cuivre modif D Ph ANDREAN 31-03-93				ASSE 06-03-97				GE Medical Systems				NUMERO DE DOCUMENT			
G. BAPTISTE C GAL16VS +RC controle de pose v4 Ph. ANDREAN 9-10-92				Ph. ANDREAN 31-03-93								NUMERO D'ARTICLE TYPE FORMAT FEUILLE			
Ph. ANDREAN D Mdif_ma*10 filaire Ph. ANDREAN 31-03-93				Sous-Ensemble Materiel				BUC - FRANCE				36004541 030 3 N° 8/12			
Demande Nb Ind EVOLUTION				Executant Date Visa Adminis. EMPLOYE DANS								F E D C B A REV. ←			

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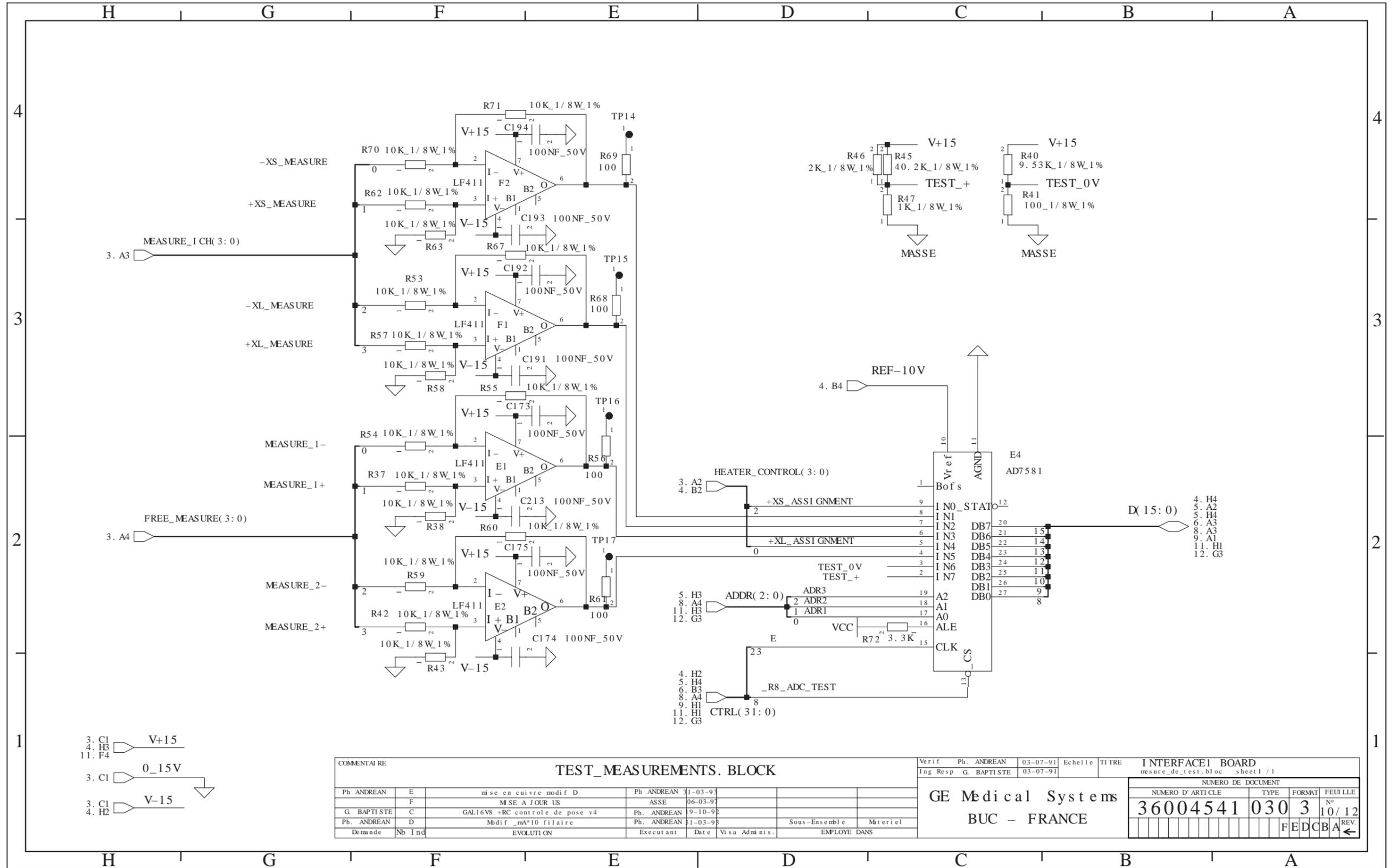
COMMENTAIRE

I N T E R R U P T S . B L O C K

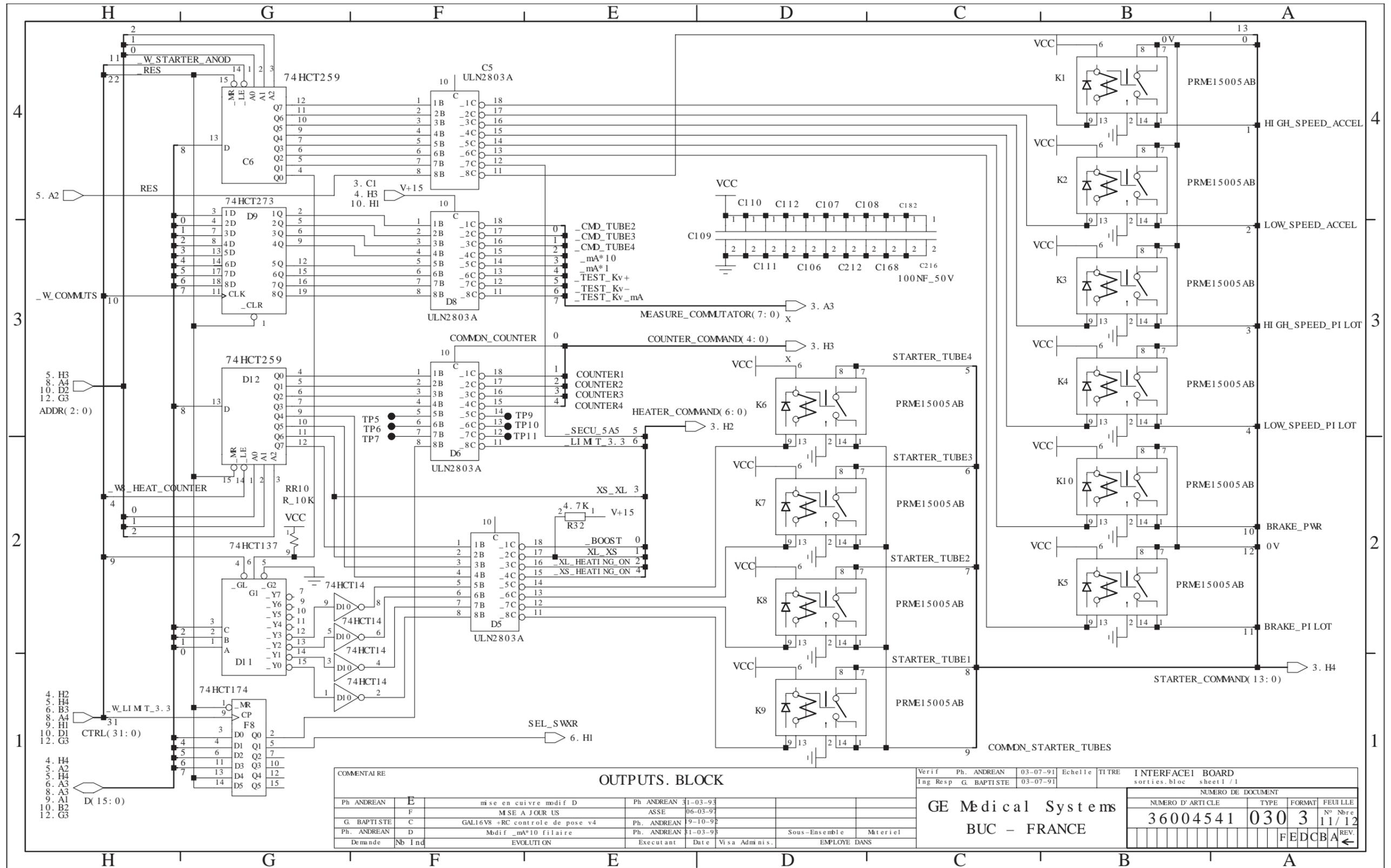
Ph ANDREAN	E	mise en cuivre modif D	Ph ANDREAN	31-03-93	
	F	MISE A JOUR US	ASSE	06-03-97	
G. BAPTISTE	C	GAL16VS +RC controle de pose v4	Ph. ANDREAN	9-10-92	
Ph. ANDREAN	D	Mdif_m*10 filaire	Ph. ANDREAN	31-03-93	
Demande	Nb Ind	EVOLUTION	Executant	Date	Visa Adminis.
					EMPLOYE DANS

Verif	Ph. ANDREAN	03-07-91	Echelle	TITRE	I N T E R F A C E I B O A R D
Ing Resp	G. BAPTISTE	03-07-91			interruptions.bloc sheet1 / 1
GE Medical Systems			NUMERO DE DOCUMENT		
BUC - FRANCE			NUMERO D'ARTICLE	TYPE	FORMAT
			36004541	030	3
					FEUILLE
					N° 9/12
					REV. FEDCBA

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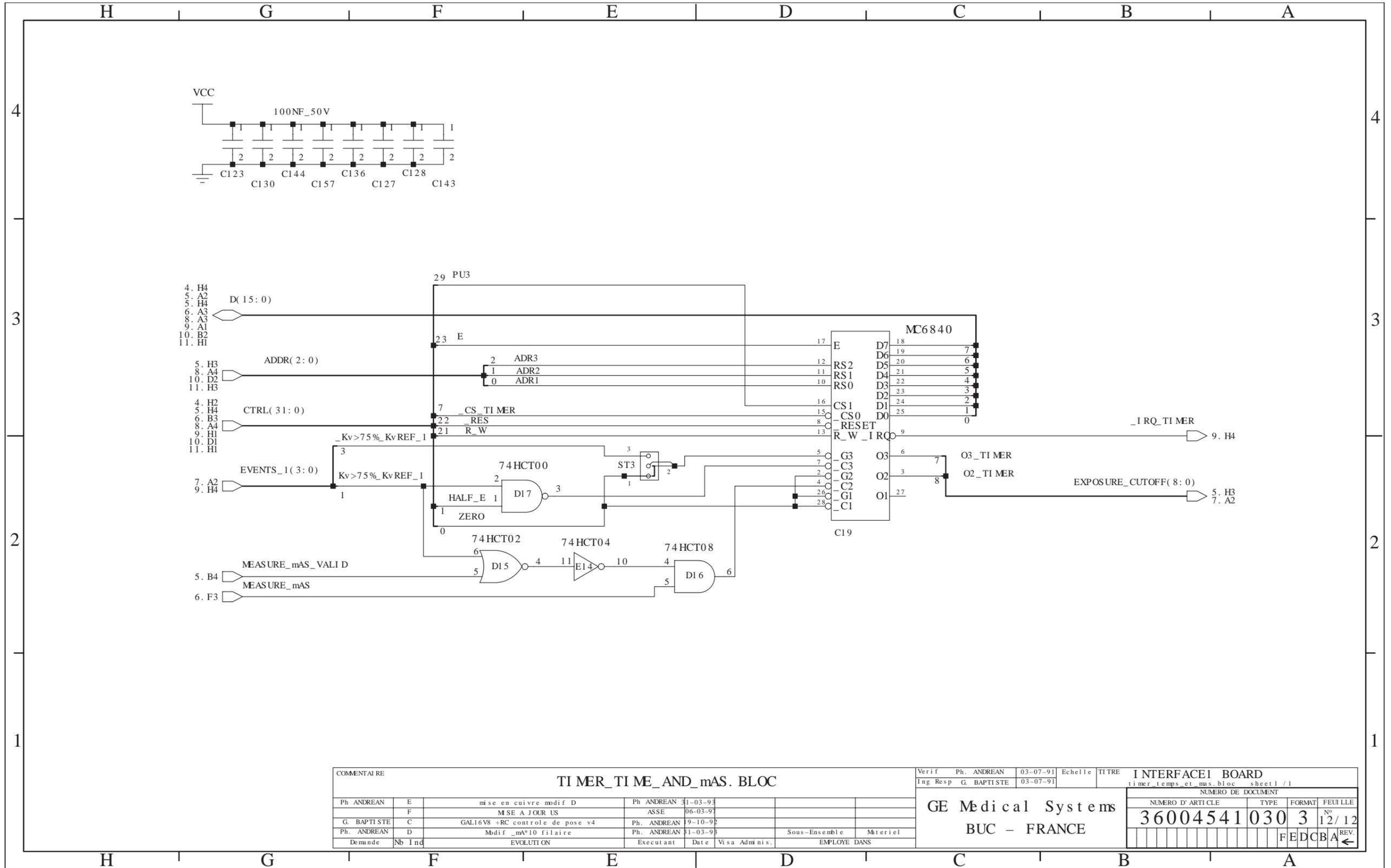
COMMENTAIRE

Ph	ANDREAN	E	mise en cuivre modif D	Ph	ANDREAN	31-03-93
		F	MSE A JOUR US		ASSE	06-03-97
	G. BAPTISTE	C	GAL16VS -RC controle de pose v4		Ph. ANDREAN	19-10-92
	Ph. ANDREAN	D	Mdif _mA*10 filaire		Ph. ANDREAN	31-03-93
	Demande	Nb	Ind		Executant	Date
					Visa	Adminis.
						EMPLOYE DANS

Verif	Ph. ANDREAN	03-07-91	Echelle	TI TRE	INTERFACE1 BOARD
Ing Resp	G. BAPTISTE	03-07-91			sorties.bloc sheet1 / 1
NUMERO DE DOCUMENT					
NUMERO D'ARTICLE		TYPE	FORMAT	FEUILLE	
36004541		030	3	N° Nbre	
				11/12	
				F	E D C B A
					REV.

GE Medical Systems
BUC - FRANCE

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COMMENTAIRE				TI MER_TI ME_AND_mAS.BLOC				INTERFACE1 BOARD											
Ph ANDREAN	E	mise en cuivre modif D	Ph ANDREAN	31-03-93				Verif	Ph. ANDREAN	03-07-91	Echelle	TI TRE	timer_temps_et_mas_bloc	sheet 1 / 1					
G. BAPTISTE	C	GAL16VS -RC controle de pose v4	Ph. ANDREAN	06-03-91				Ing Resp	G. BAPTISTE	03-07-91			NUMERO DE DOCUMENT						
Ph. ANDREAN	D	Mdif_m*10 filaire	Ph. ANDREAN	31-03-93				GE Medical Systems BUC - FRANCE				NUMERO D'ARTICLE		TYPE	FORMAT	FEUILLE			
Demande	Nb	Ind	EVOLUTION	Executant	Date	Visa Adminis.	EMPLOYE DANS					36004541030			3	12/12			
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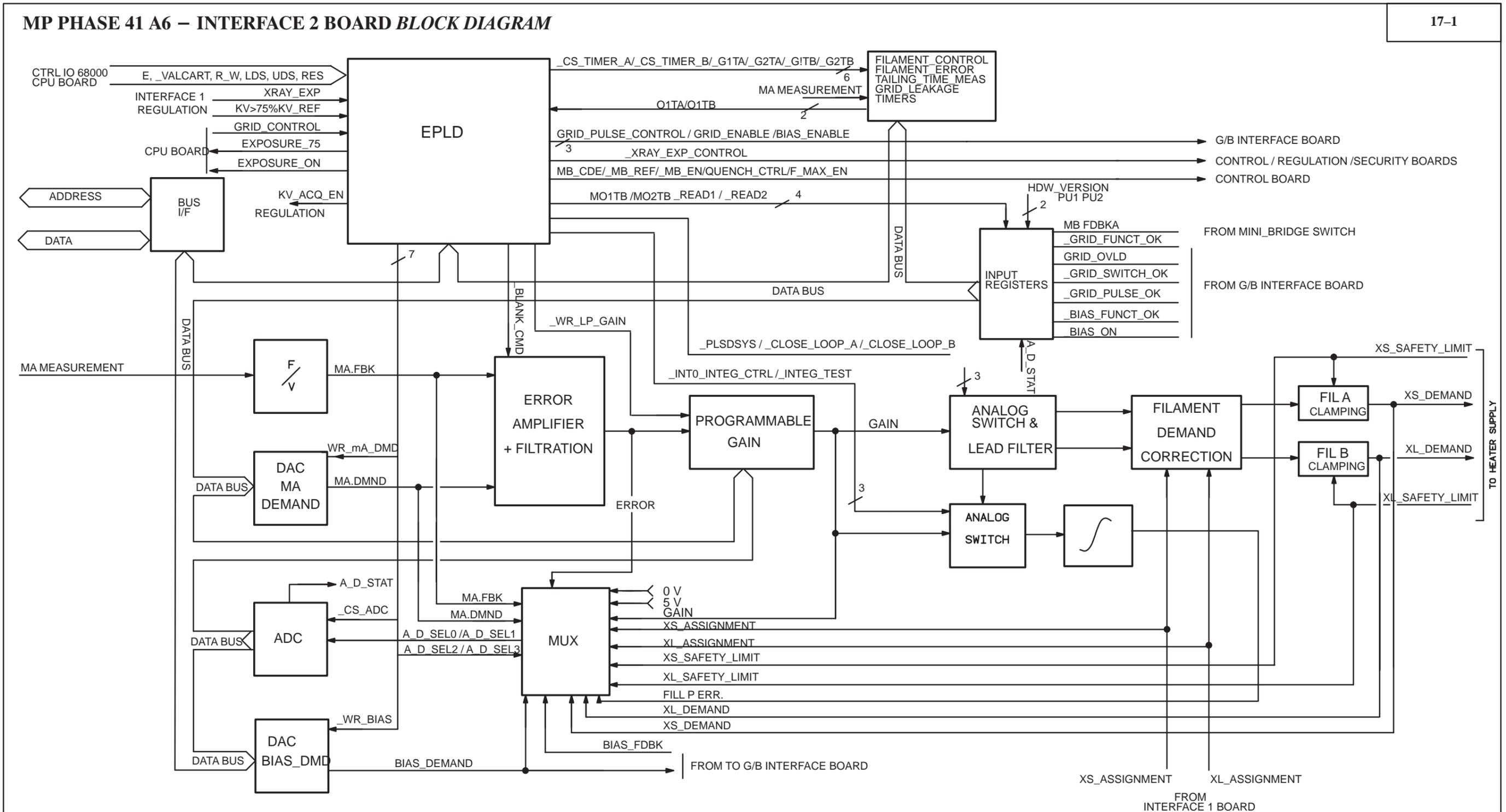
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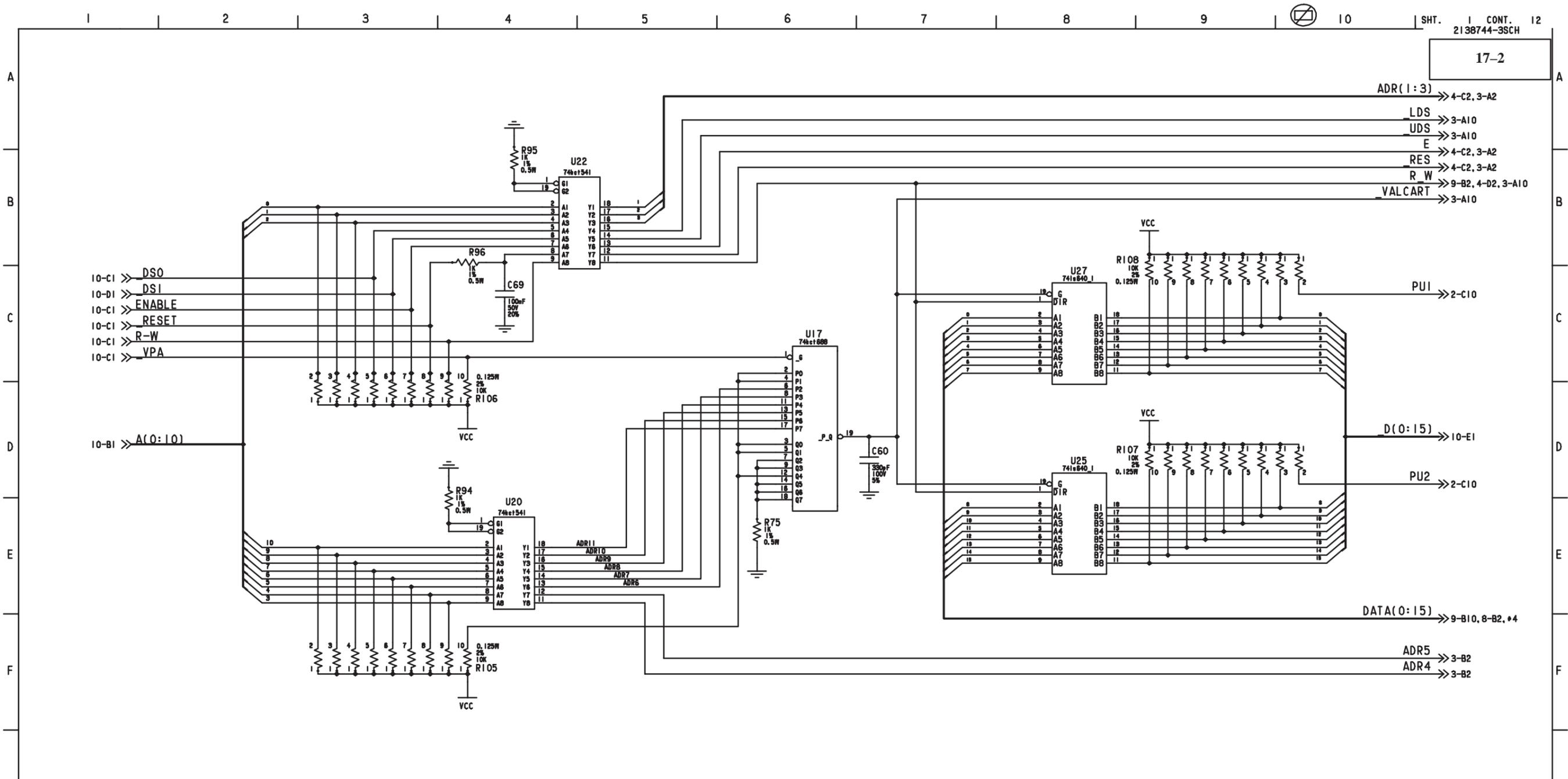
MNEMONICS

17-0

MP PHASE 41 A5 A6 – INTERFACE 2 BOARD

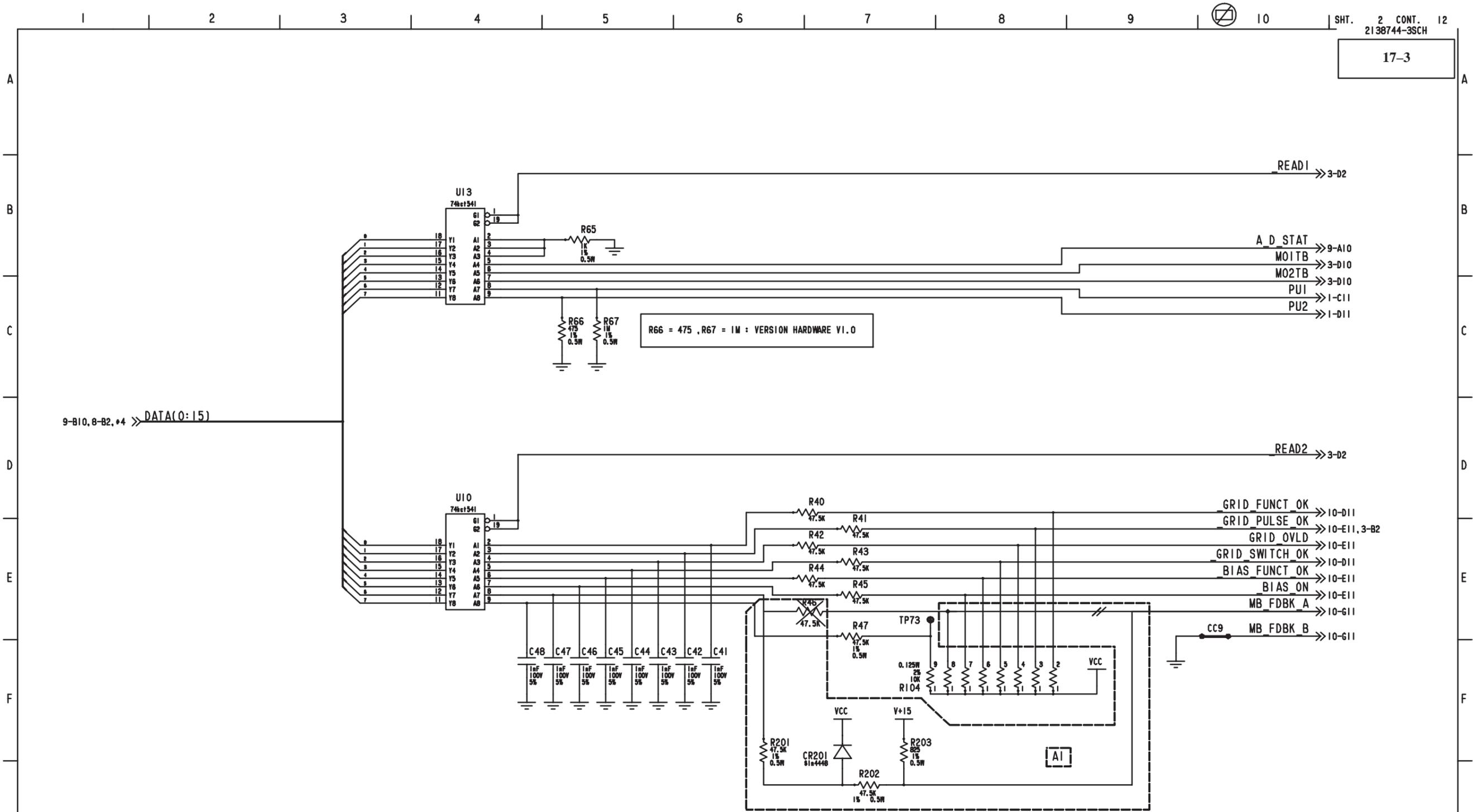
MB FDBKA	Mini bridge operation Feedback
GRID FUNCT OK	Grid function OK
GRID 0VLD	Grid current overload
GRID SWITCH OK	36 V grid switch OK
GRID PULSE OK	Feedback to Int2 board
BIAS FUNCT OK	Bias voltage OK
BIAS ON	Bias voltage Feedback to Int 2 Board



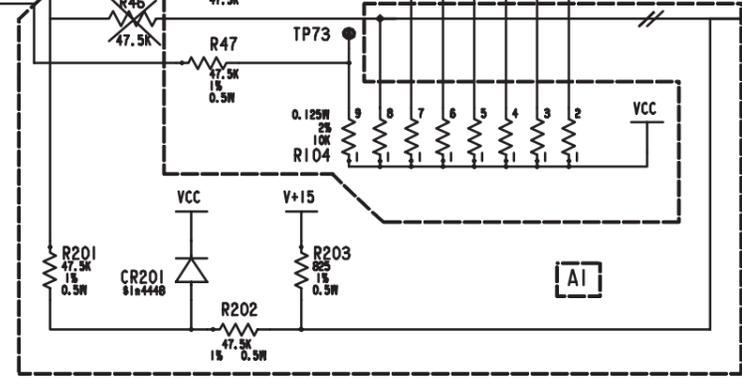


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REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	STEF	DATE	10/10/96	DESIGN TITLE		INTERFACE 2
MADE BY	NAME		DATE	DD/MM/YY	CHECK	CLOATRE	DATE	10/10/96	FIRST MADE FOR		VAMP
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	ENCCELLAZ	DATE	10/10/96	DRAWING NO.		2138744-3SCH
MADE BY	NAME		DATE	DD/MM/YY	APPR BY	NAME	DATE	REV	SIZE	SHT/CONT. ON
									A	3	1 / 12

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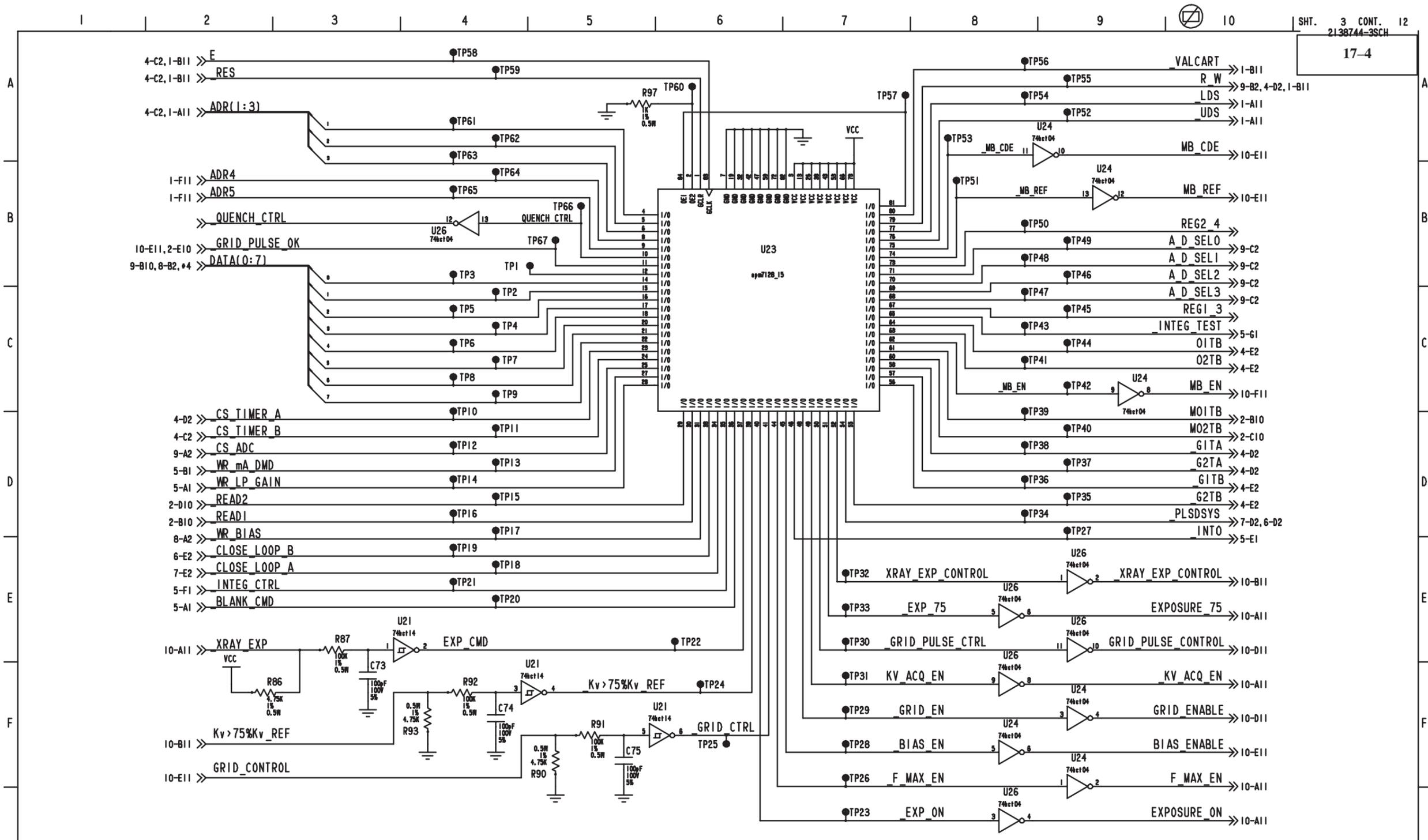


R66 = 475 , R67 = 1M : VERSION HARDWARE V1.0



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REV 1	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE	STEF	DATE	10/10/96	FIRST MADE FOR VAMP		
MADE BY	NAME		DATE	DD/MM/YY	CHECK	CLOATRE	DATE	10/10/96	DRAWING NO. 2138744-3SCH		
REV 2	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	APPR	ENCCELLAZ	DATE	10/10/96	REV	SIZE	SHT/CONT. ON
MADE BY	NAME		DATE	DD/MM/YY	OTHER	DATE	A	3	2 / 12

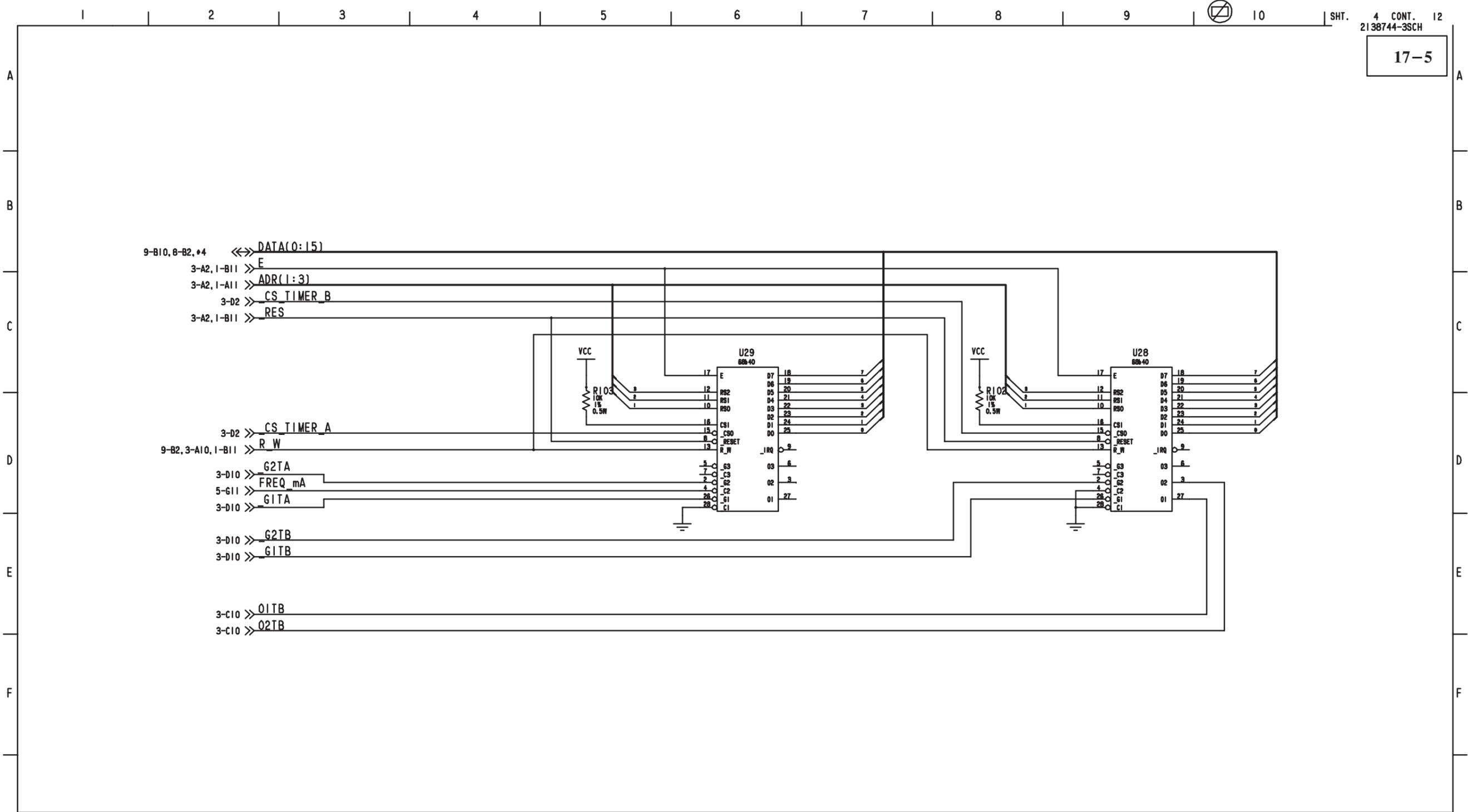
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BLOCK PATHNAME \$PROJECT_VAMP/int2_v8 ASM/int2_v8				BLOCK SHT 3 OF 12								
REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	STEF	DATE	10/10/96	DESIGN TITLE		INTERFACE 2	
MADE BY	NAME		DATE	DD/MM/YY	CHECK	CLOATRE	DATE	10/10/96	FIRST MADE FOR		VAMP	
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	ENCALLAZ	DATE	10/10/96	DRAWING NO.		REV	SIZE
MADE BY	NAME		DATE	DD/MM/YY	OTHER	DATE	2138744-3SCH		A	3
										SHT/CONT. ON		3 / 12

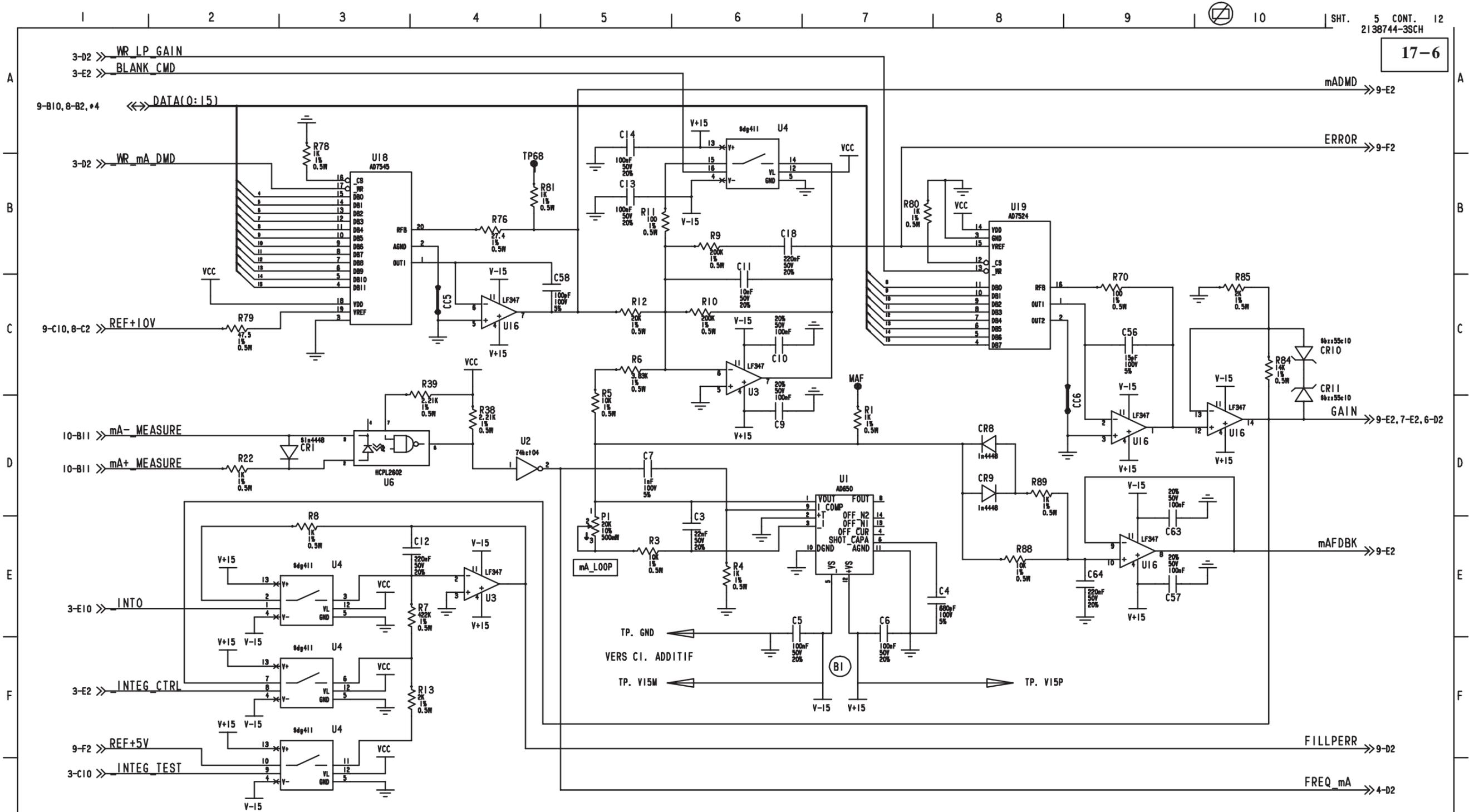
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17-5



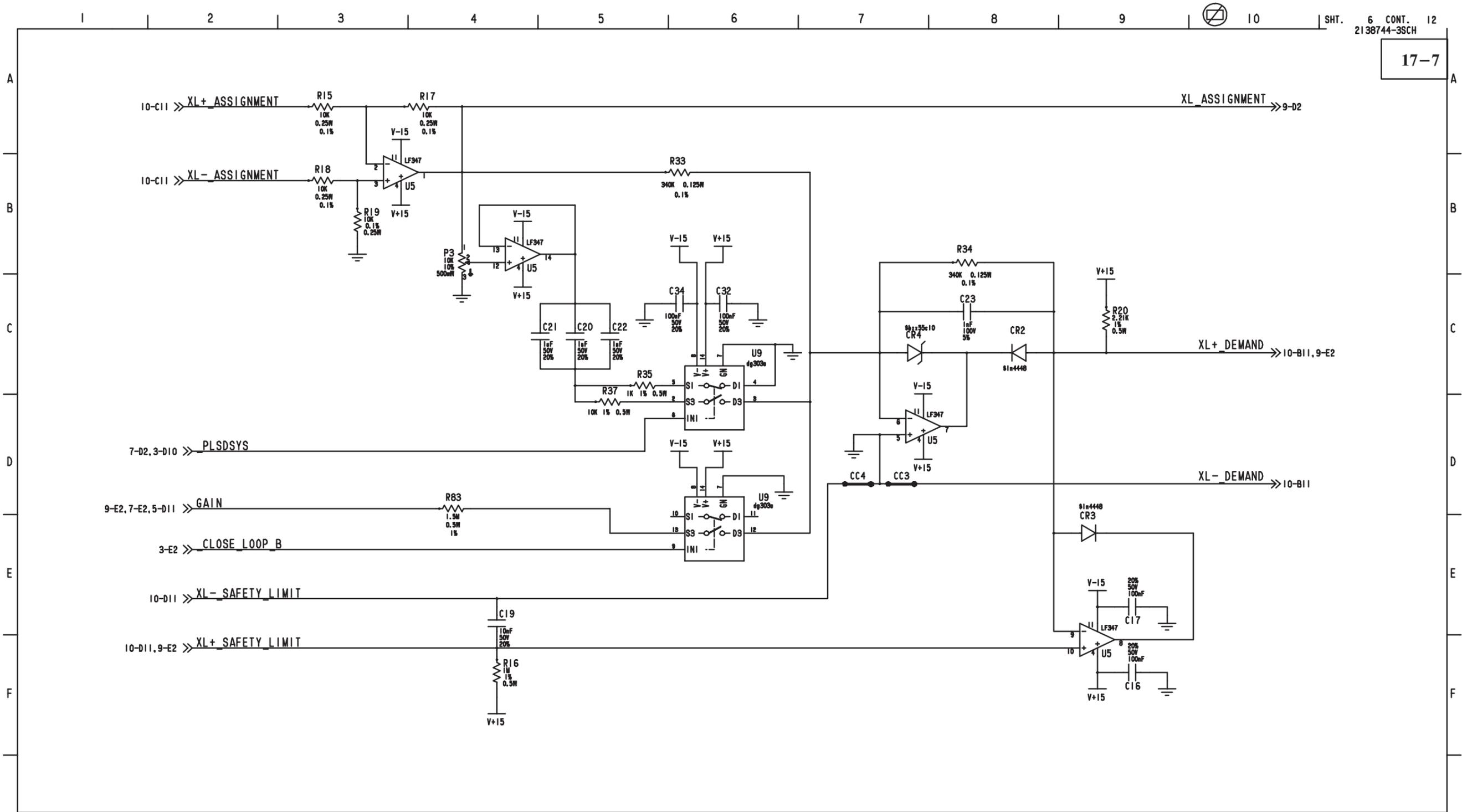
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REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE CHECK APPR OTHER	STEF CLOATRE ENCCELLAZ	DATE 10/10/96	DATE 10/10/96	DATE 10/10/96	DATE	GE Medical Systems	FIRST MADE FOR VAMP	REV A	SIZE 3	SHT/CONT. ON 4 / 12
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	BUC - FRANCE		DRAWING NO. 2138744-3SCH								

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BLOCK PATHNAME \$PROJECT VAMP/int2_v8 ASM/int2_v8				BLOCK SHT 5 OF 12				DESIGN TITLE INTERFACE 2				
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE STEF	DATE 10/10/96	GE Medical Systems		FIRST MADE FOR VAMP		REV A	SIZE 3	SHT/CONT. ON 5 / 12
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	CHECK CLOATRE	DATE 10/10/96	BUC - FRANCE		DRAWING NO. 2138744-3SCH				
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	APPR ENCELLAZ	DATE 10/10/96							
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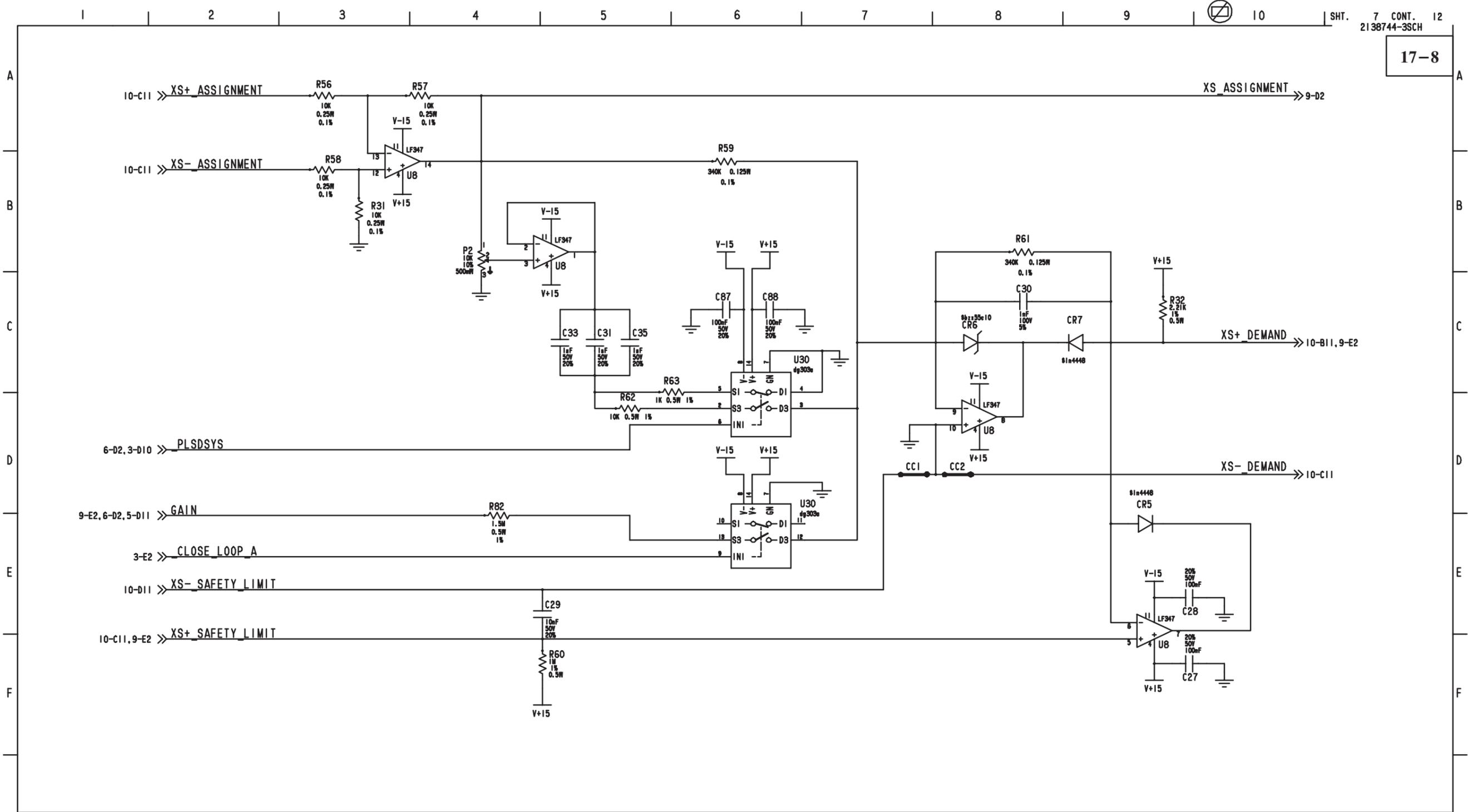


SHT. 6 CONT. 12
2138744-3SCH

17-7

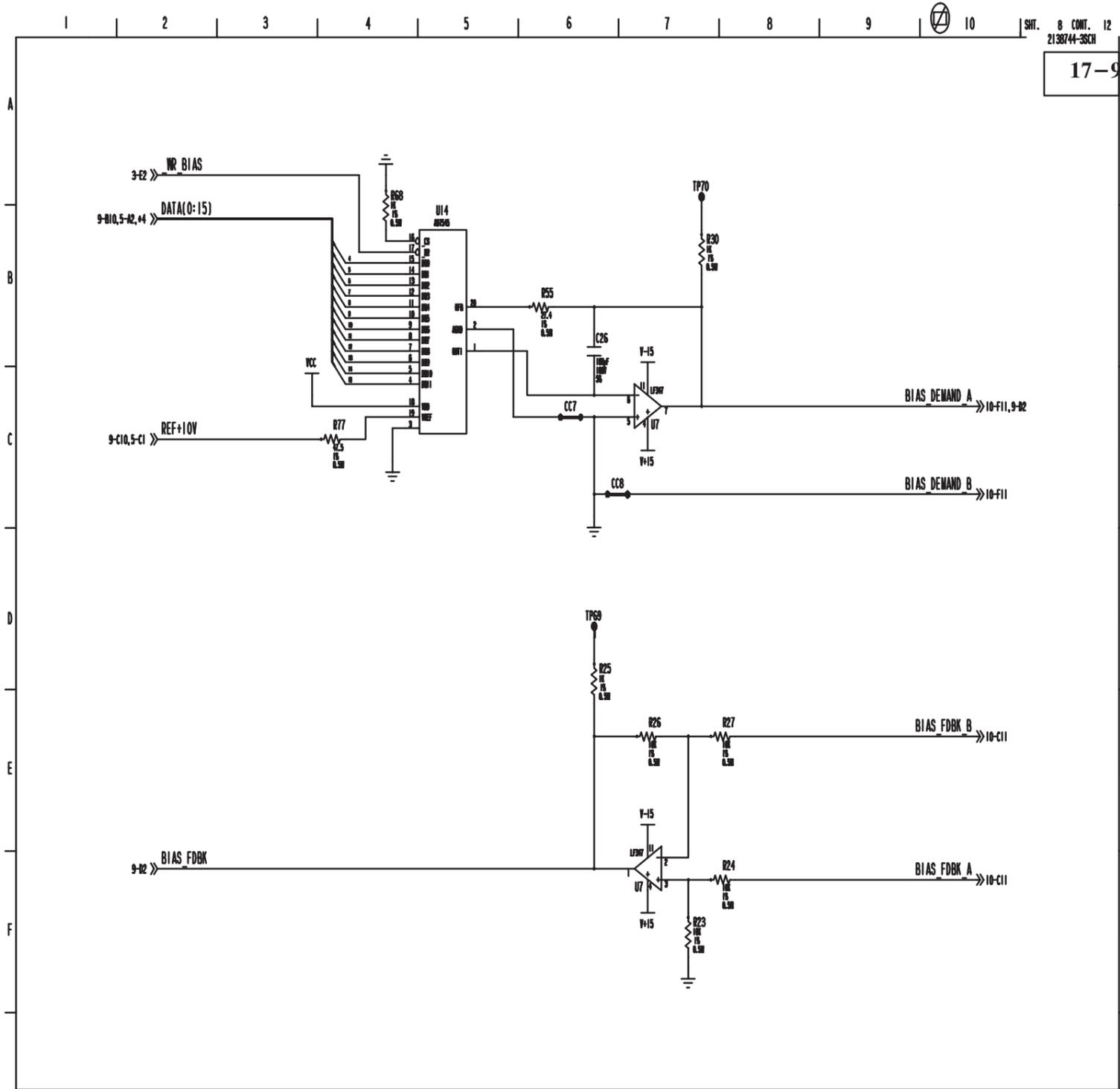
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REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE CHECK CLOATRE	DATE 10/10/96	GE Medical Systems		FIRST MADE FOR VAMP				
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	OTHER	DATE 10/10/96	BUC - FRANCE		DRAWING NO. 2138744-3SCH		REV A	SIZE 3	SHT/CONT. ON 6 / 12
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	APPR BY NAME	DATE DD/MM/YY							
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	OTHER	DATE DD/MM/YY							

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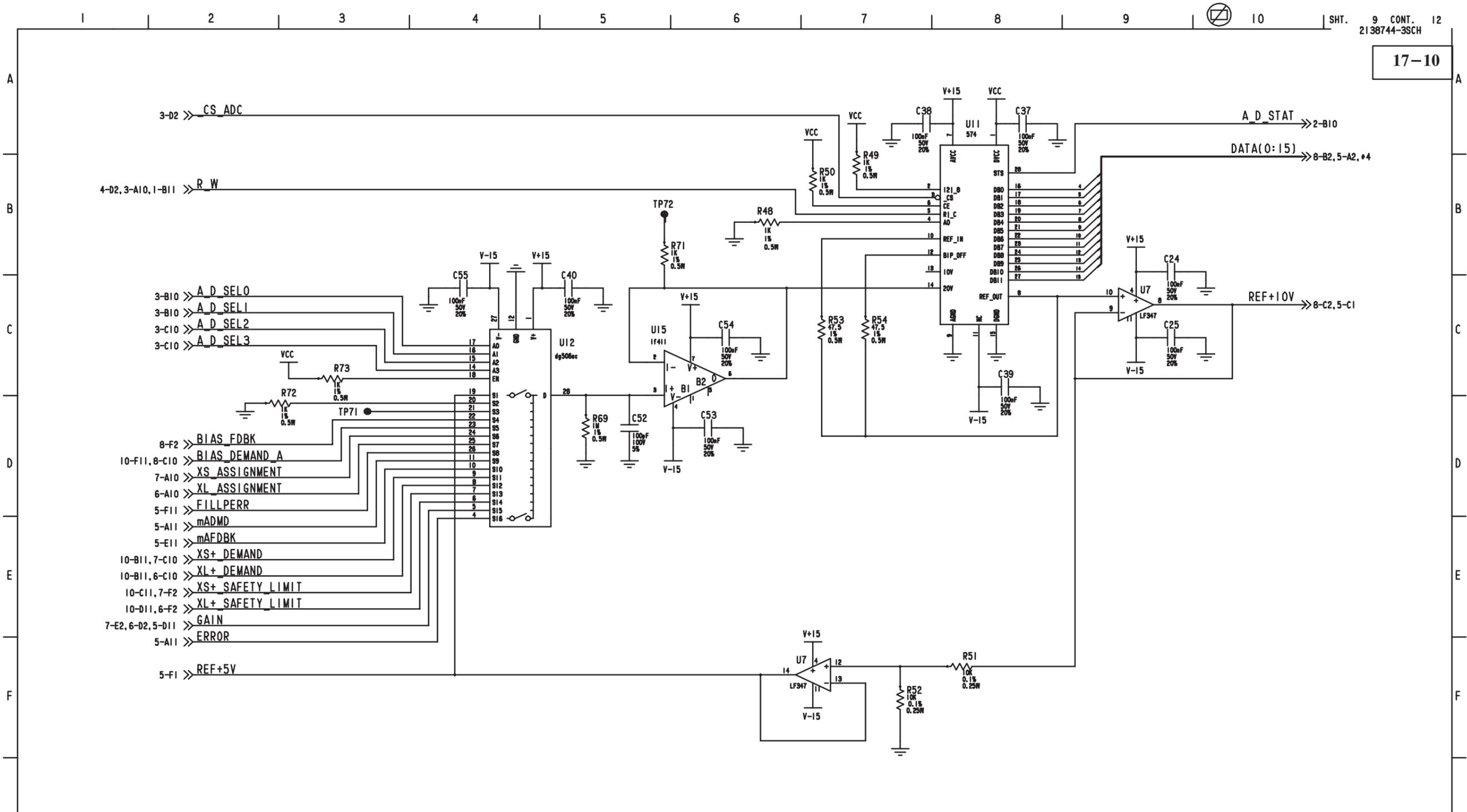
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REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE CHECK CLOATRE	DATE 10/10/96	GE Medical Systems		FIRST MADE FOR VAMP		REV A	SIZE 3	SHT/CONT. ON 7 / 12	
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	DATE DD/MM/YY	OTHER	BUC - FRANCE		DRAWING NO. 2138744-3SCH					
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	APPR BY NAME	DATE DD/MM/YY								
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	DATE DD/MM/YY	OTHER								

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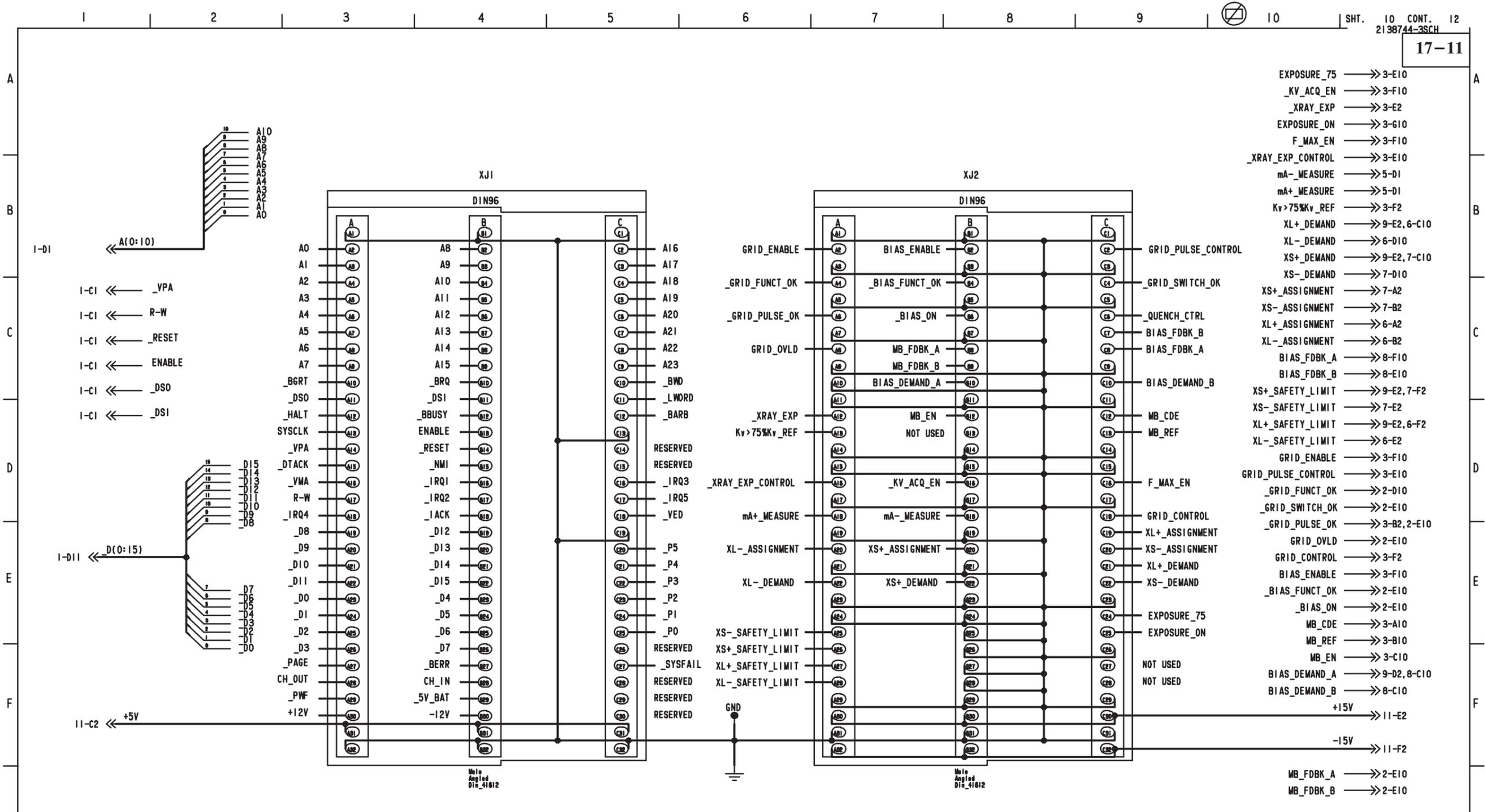
BLOCK PATHNAME				BLOCK SHT				DESIGN TITLE				
sPROJECT_VAMP/int2.v8 ASN/int2.v8				8 OF 12				INTERFACE 2				
REV 1	PCN	DESCRIPTION	DATE	MADE	CHECK	DATE	GE Medical Systems	FIRST MADE FOR	YAMP	REV	SIZE	SHT/CONT. ON
1	XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	DD/MM/YY	BY	CLOATRE	10/10/96	BUC - FRANCE	DRAWING NO.	2138744-3SCH	A	3	8 / 12
REV 2	PCN	DESCRIPTION	DATE	MADE	APPR	DATE						
2	XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	DD/MM/YY	BY	ENCHELLAZ	10/10/96						
					OTHER							

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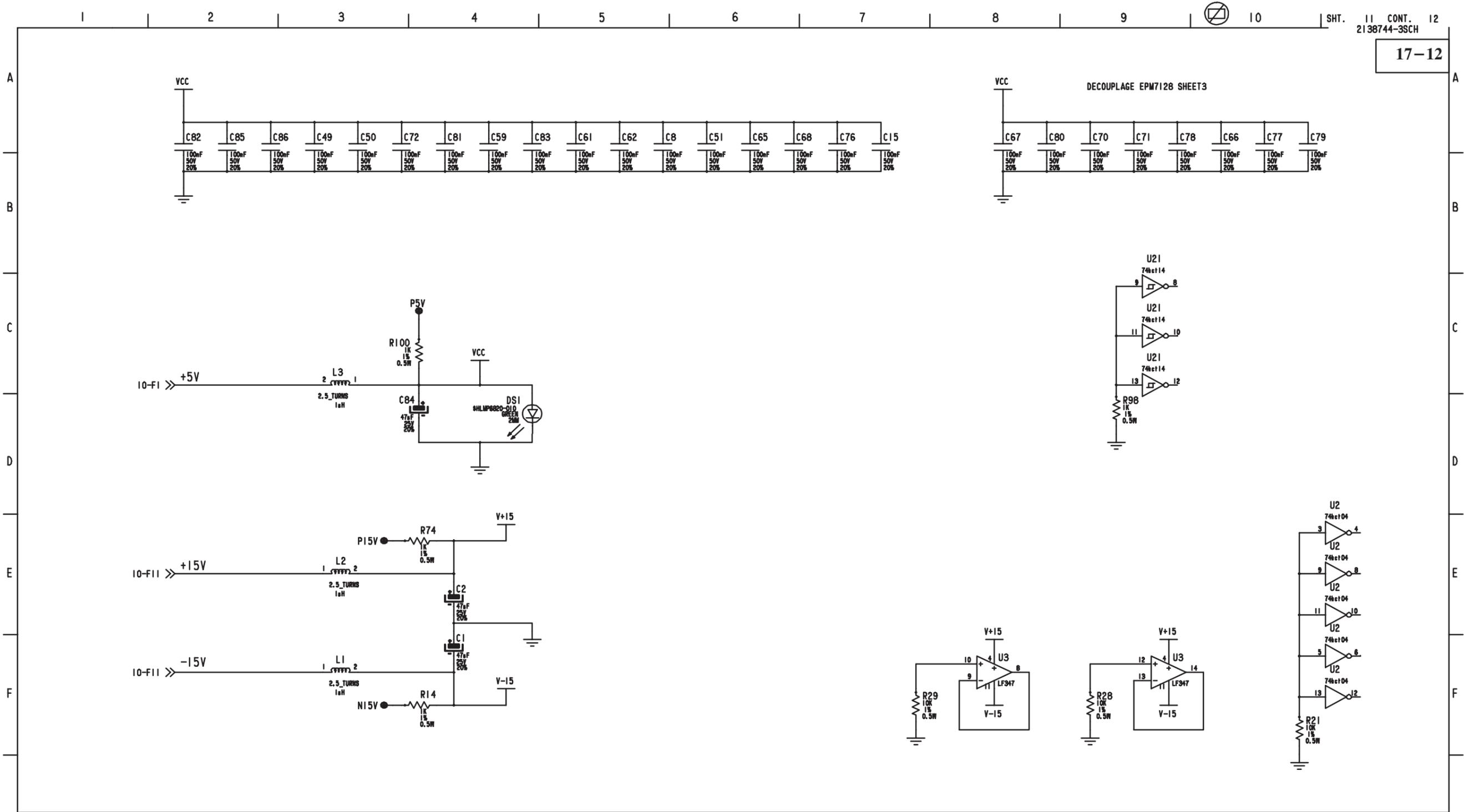
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REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE CHECK CLOATRE	DATE 10/10/96	GE Medical Systems		FIRST MADE FOR VAMP		REV A	SIZE 3	SHT/CONT. ON 9 / 12	
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	APPR ENCENLAZ	DATE 10/10/96	BUC - FRANCE		DRAWING NO. 2138744-3SCH					
MADE BY	NAME	DATE DD/MM/YY	APPR BY	NAME	DATE DD/MM/YY								

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BLOCK PATHNAME \$PROJECT VAMP/int2_v8 ASM/int2_v8				BLOCK SHT 10 OF 12			
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MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	APPR ENCELLAZ	DATE 10/10/96	GE Medical Systems	BUC - FRANCE
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE DATE DD/MM/YY	OTHER	DATE	DRAWING NO. 2138744-3SCH	REV A
MADE BY	NAME	DATE DD/MM/YY	APPR BY NAME	DATE	DATE	SIZE 3	SHT/CONT. ON 10 / 12

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SHT. 11 CONT. 12
2138744-3SCH

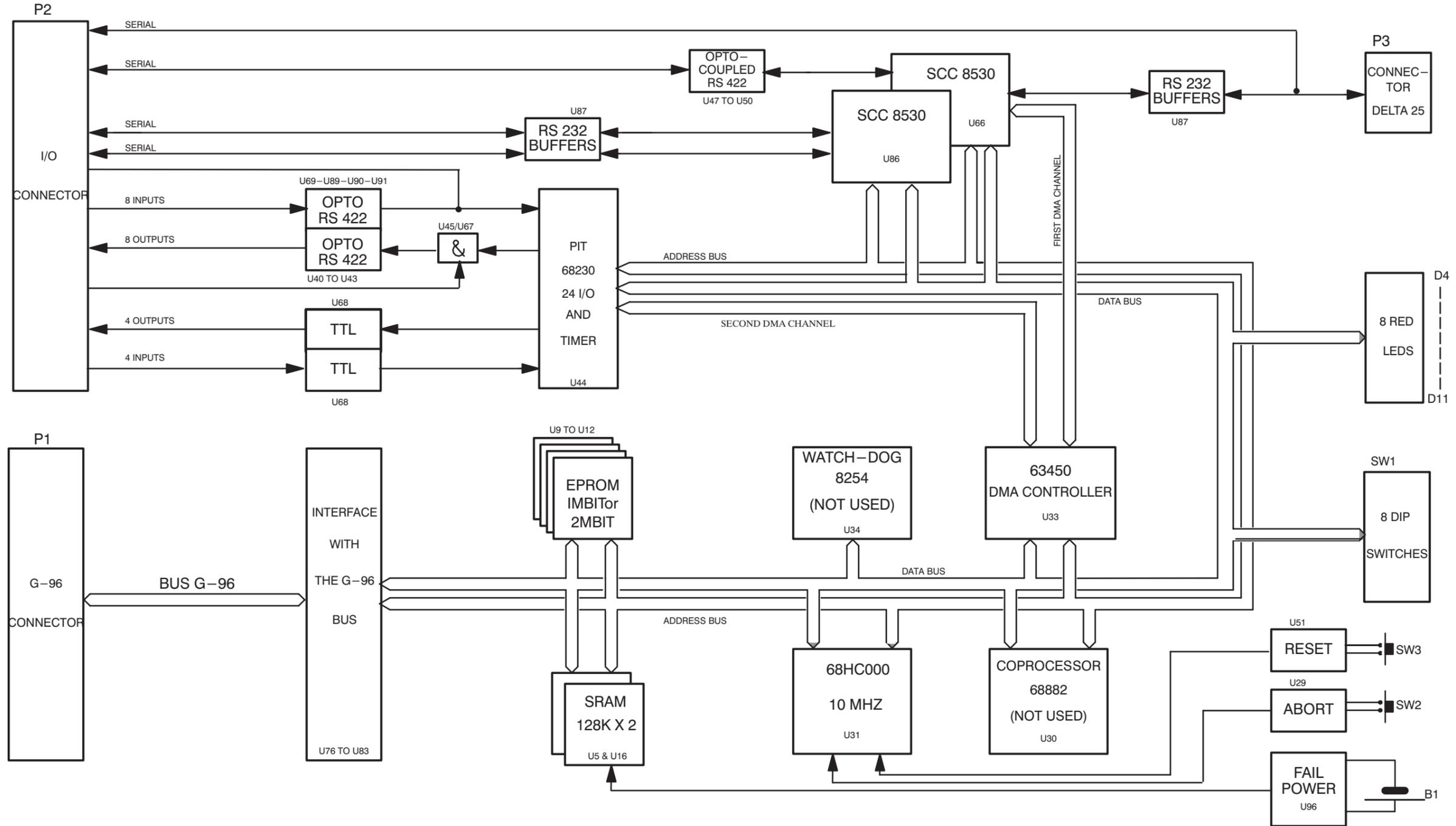
17-12

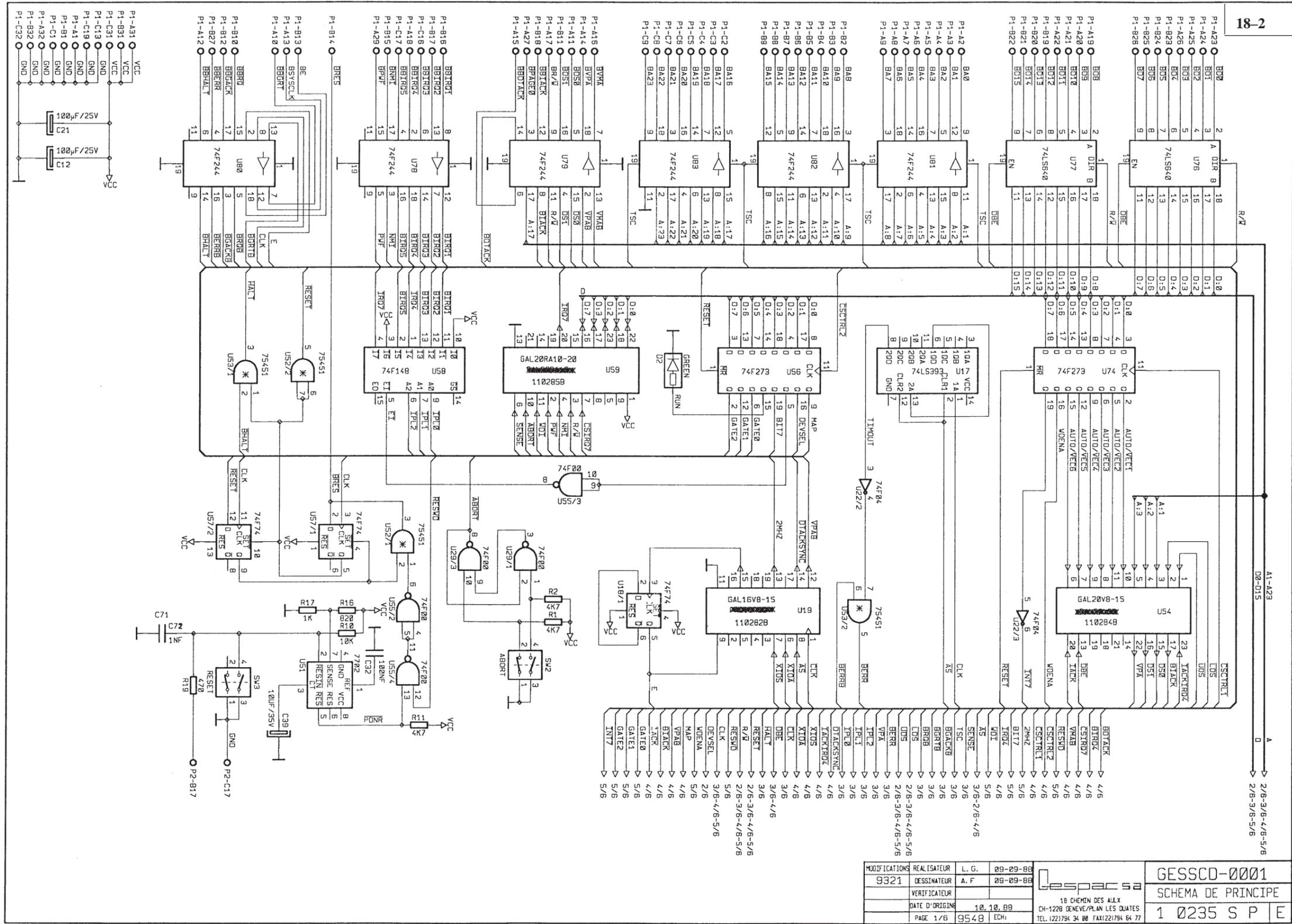
BLOCK PATHNAME \$PROJECT VAMP/int2_v8 ASM/int2_v8				BLOCK SHT 11 OF 12				DESIGN TITLE INTERFACE 2			
REV 1	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY	MADE CHECK APPR OTHER	STEF CLOATRE ENCCELLAZ	DATE 10/10/96	GE Medical Systems BUC - FRANCE				FIRST MADE FOR VAMP
REV 2	PCN XXXXXXXX	DESCRIPTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	DATE DD/MM/YY					DRAWING NO. 2138744-3SCH	REV A	SIZE 3	SHT/CONT. ON 11 / 12

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MP PHASE 41 A5 A9 - CPU BOARD BLOCK DIAGRAM

18-1



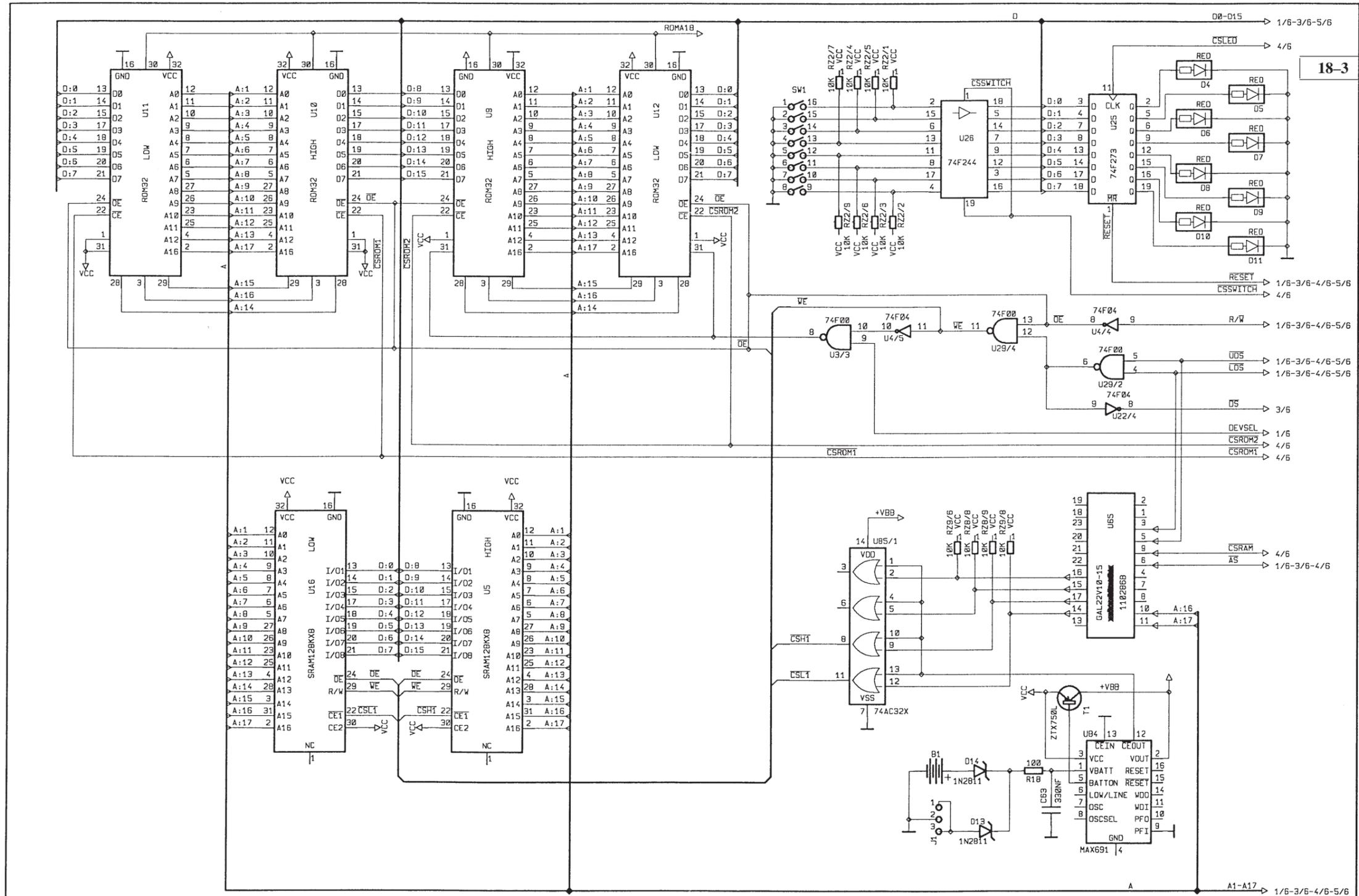


MODIFICATIONS	REALISATEUR	L. G.	09-09-88
9321	DESSINATEUR	A. F.	09-09-88
	VERIFICATEUR		
	DATE D'ORIGINE	10.10.89	
	PAGE	1/6	9548

Lesparca
18 CHEMIN DES AULX
CH-1228 BENEVE/PLAN LES QUATES
TEL. 1221794 34 00 FAX 1221794 64 77

GESSCD-0001
SCHEMA DE PRINCIPE
1 0235 S P E

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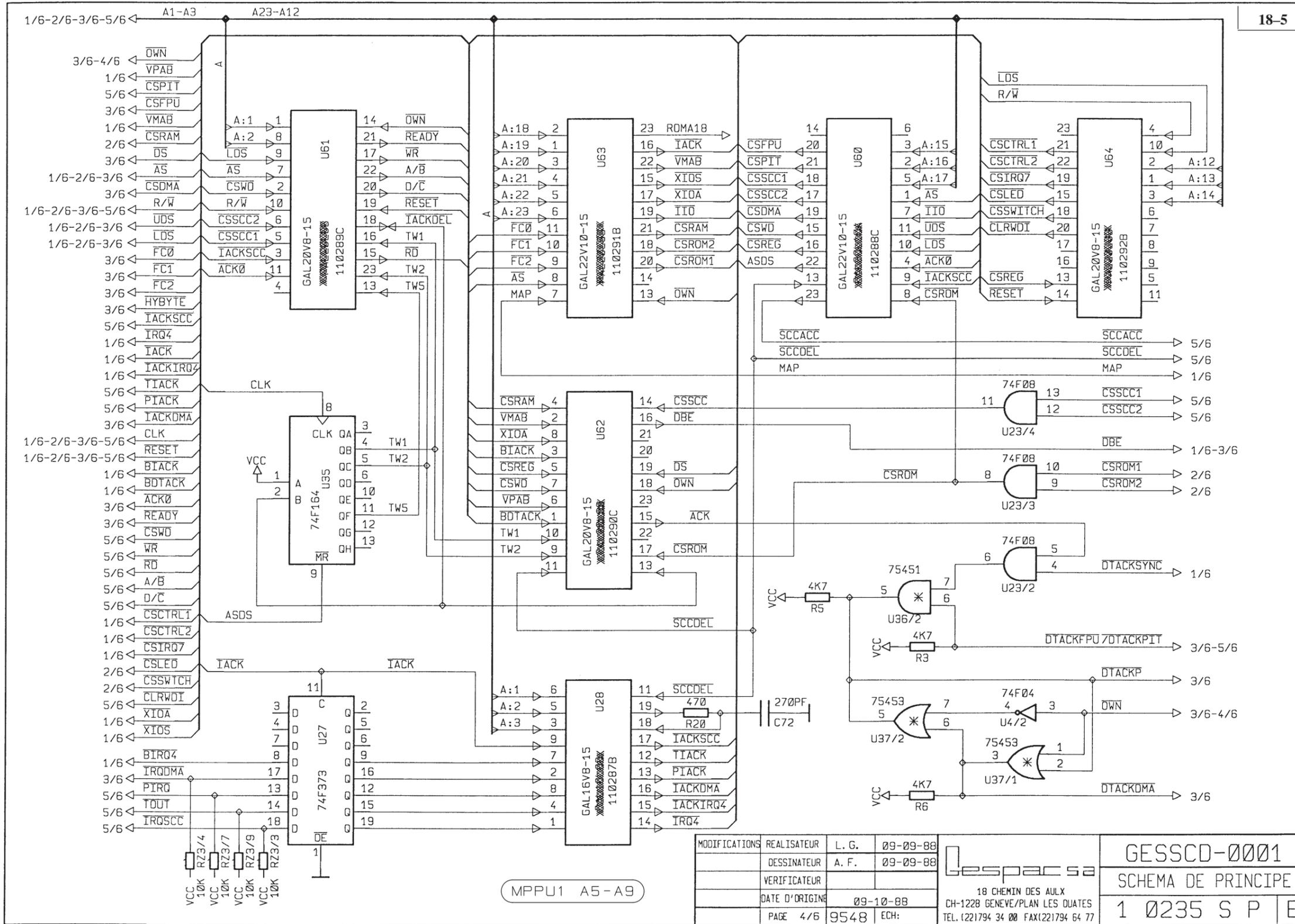


MPPU1 A5-A9

MODIFICATIONS	REALISATEUR	L. G.			GESSCD-0001
	DESSINATEUR	A. F.	09-09-88		SCHEMA DE PRINCIPE
	VERIFICATEUR				
	DATE D'ORIGINE	09.10.88			
PAGE	2/6	9548	ECH:	18 CHEMIN DES AULX CH-1228 GENEVE/PLAN LES DIATES TEL.1221794 34 88 FAX1221794 64 77	1 0235 S P E

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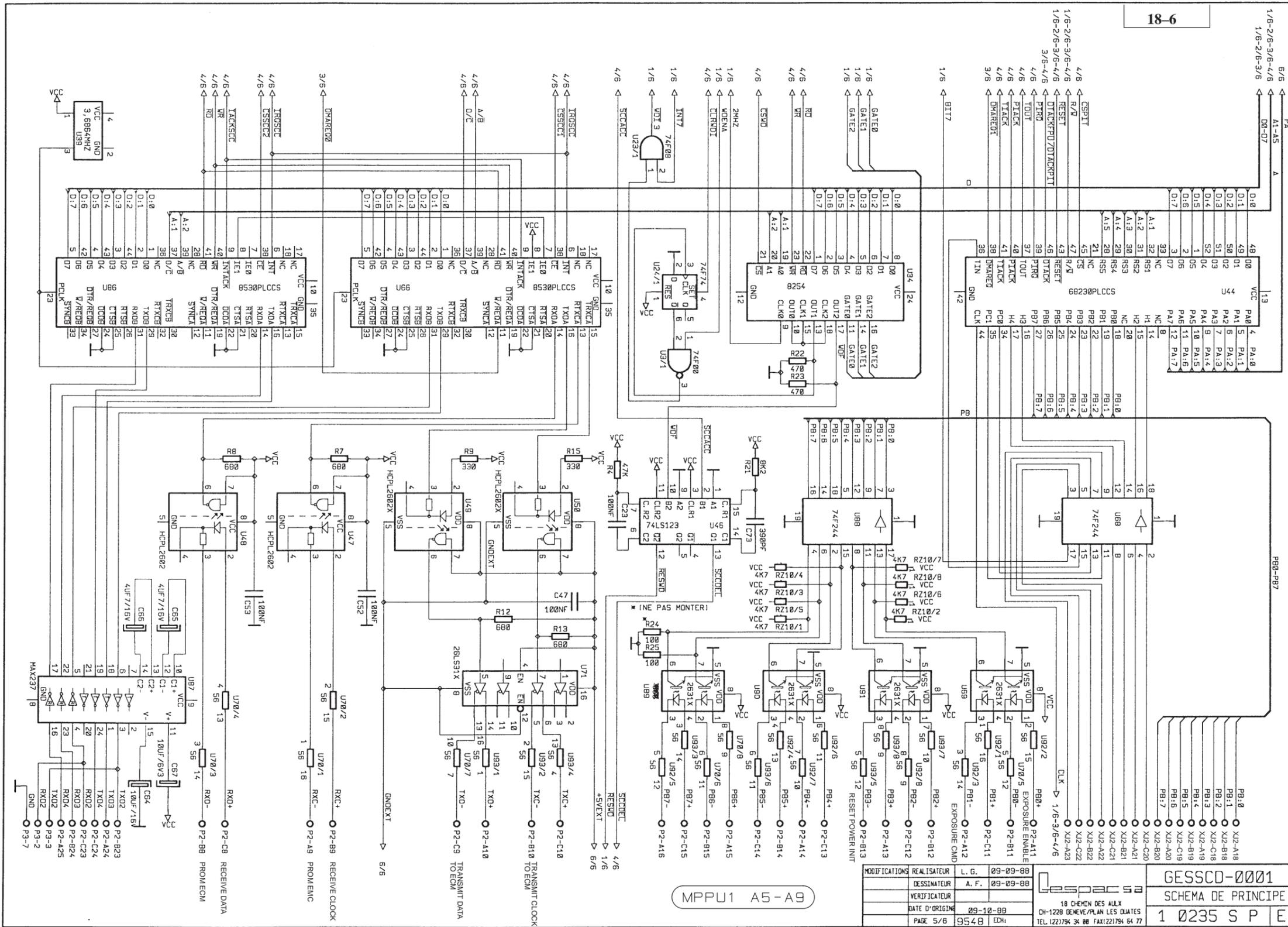


MODIFICATIONS	REALISATEUR	L. G.	09-09-88
	DESSINATEUR	A. F.	09-09-88
	VERIFICATEUR		
	DATE D'ORIGINE		09-10-88
PAGE 4/6	9548	ECH:	

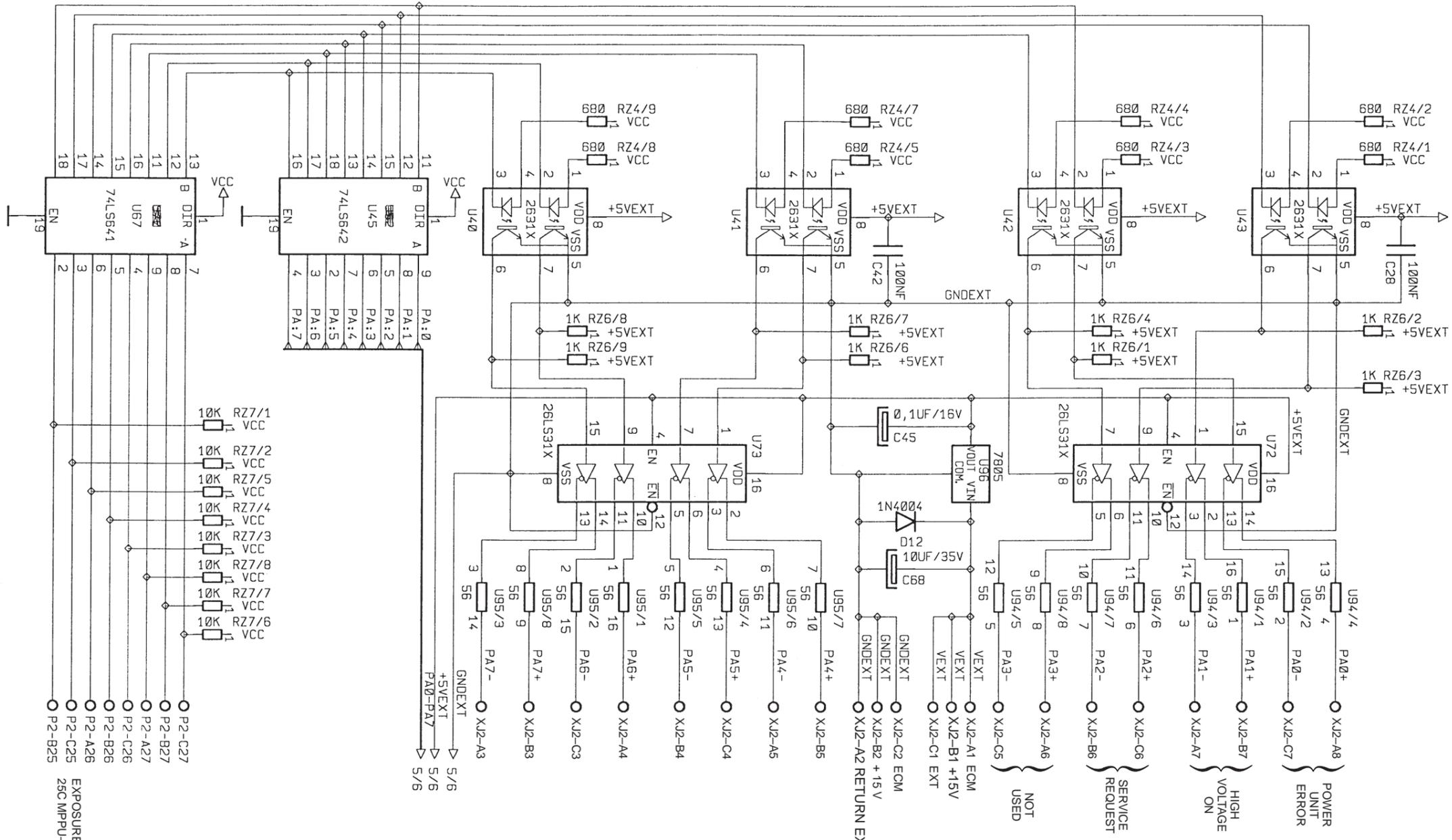
Lespacsa
18 CHEMIN DES AULX
CH-1228 GENEVE/PLAN LES DUATES
TEL. (221)794 34 00 FAX(221)794 64 77

GESSCD-0001
SCHEMA DE PRINCIPE
1 0235 S P E

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EXPOSURE ON
P2-C25
25C MPPU-A5-A6

MPPU1 A5-A9

MODIFICATIONS	REALISATEUR	L. G.	09-09-88
	DESSINATEUR	A. F.	09-09-88
	VERIFICATEUR		
	DATE D'ORIGINE		09-10-88
PAGE 6/6	9548	ECH:	

OSPAC S
18 CHEMIN DES AULX
CH-1228 GENEVE/PLAN LES QUATES
TEL. (221)794 34 00 FAX(221)794 64 77

GESSCD-0001
SCHEMA DE PRINCIPE
1 0235 S P E

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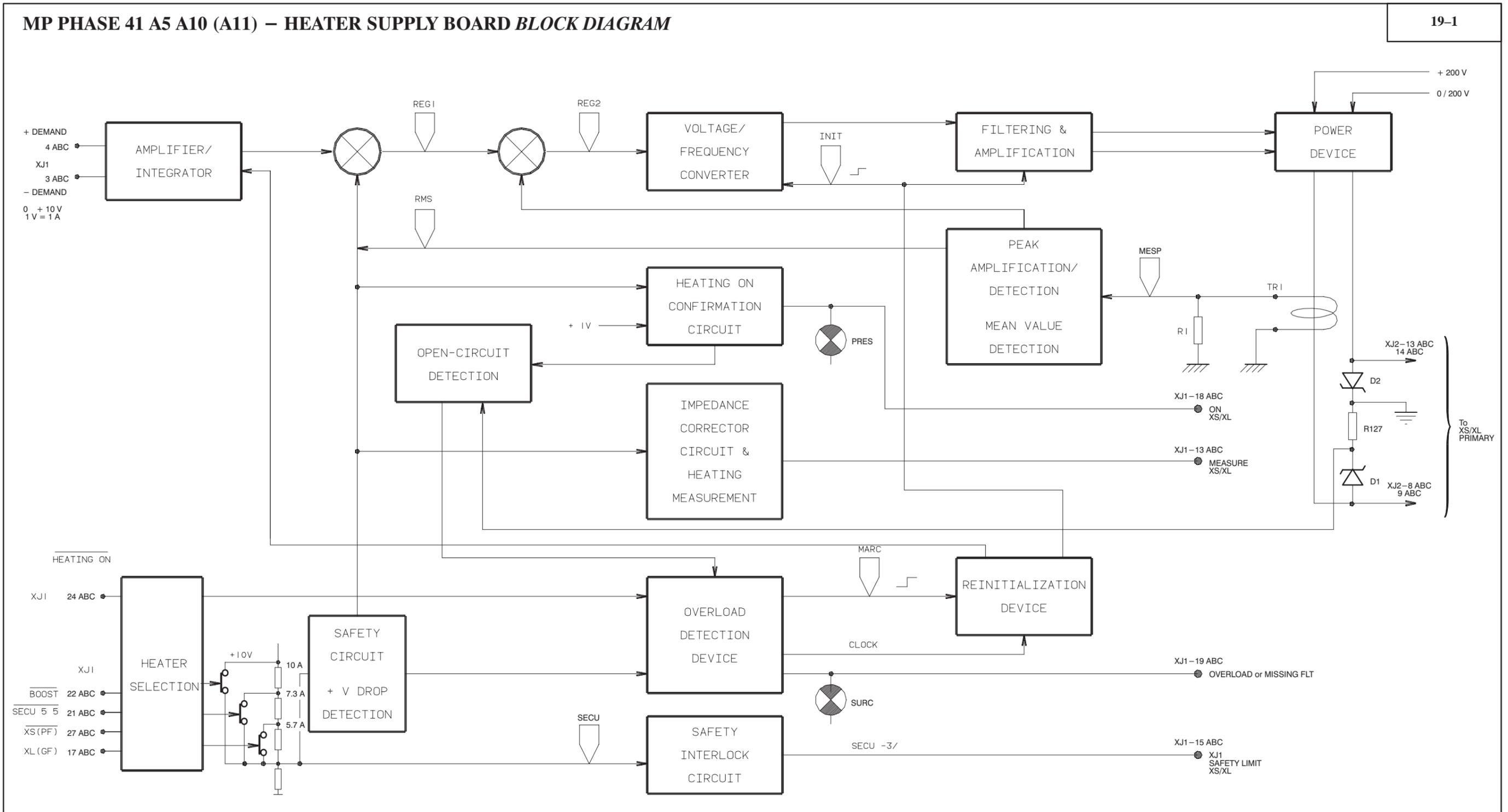
MNEMONICS

19-0

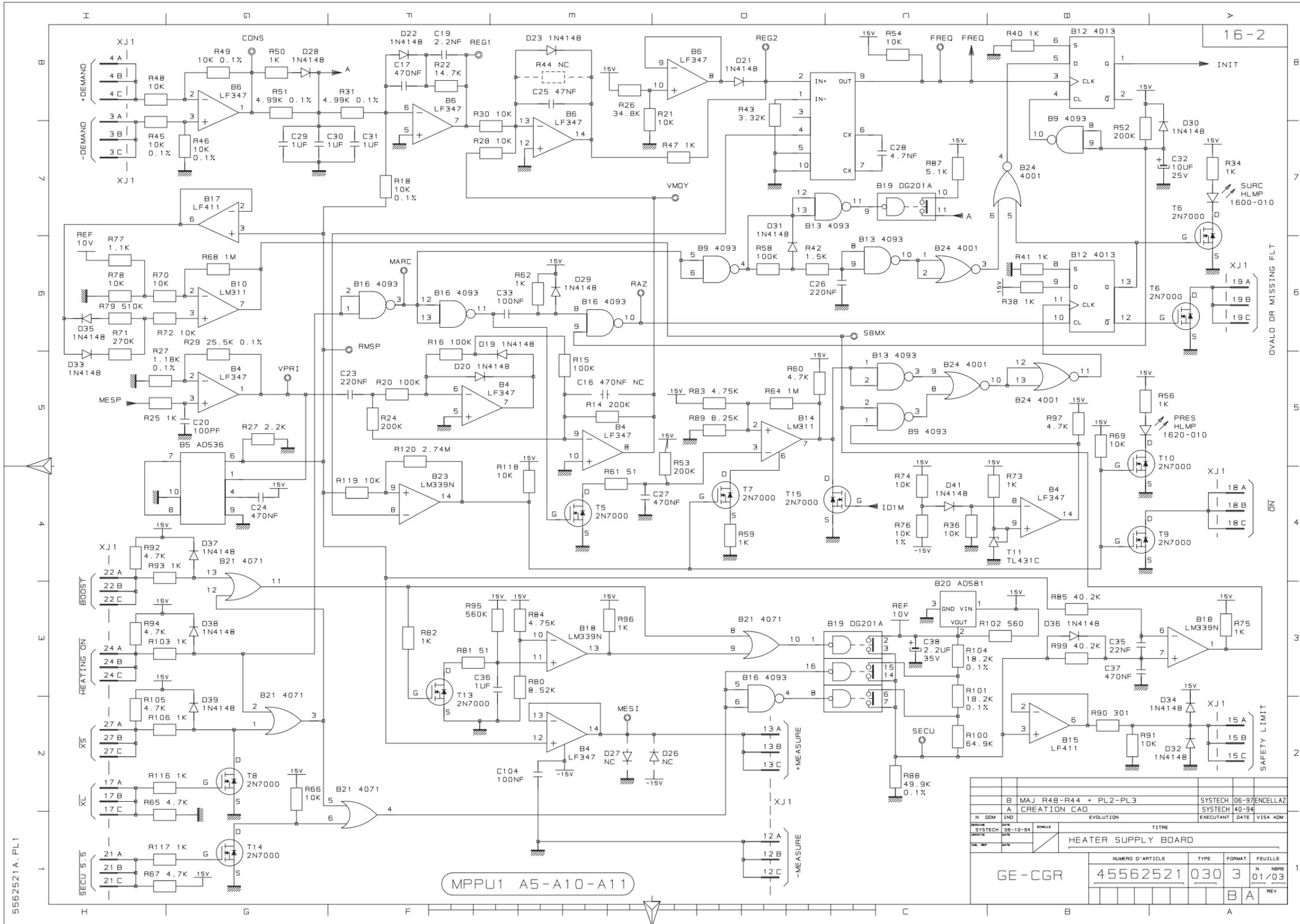
MP PHASE 41 A5 A10 – HEATER SUPPLY BOARD

XS	Small Focus
XL	Large Focus
XS/XL DEMAND	RMS Filament Current Requested

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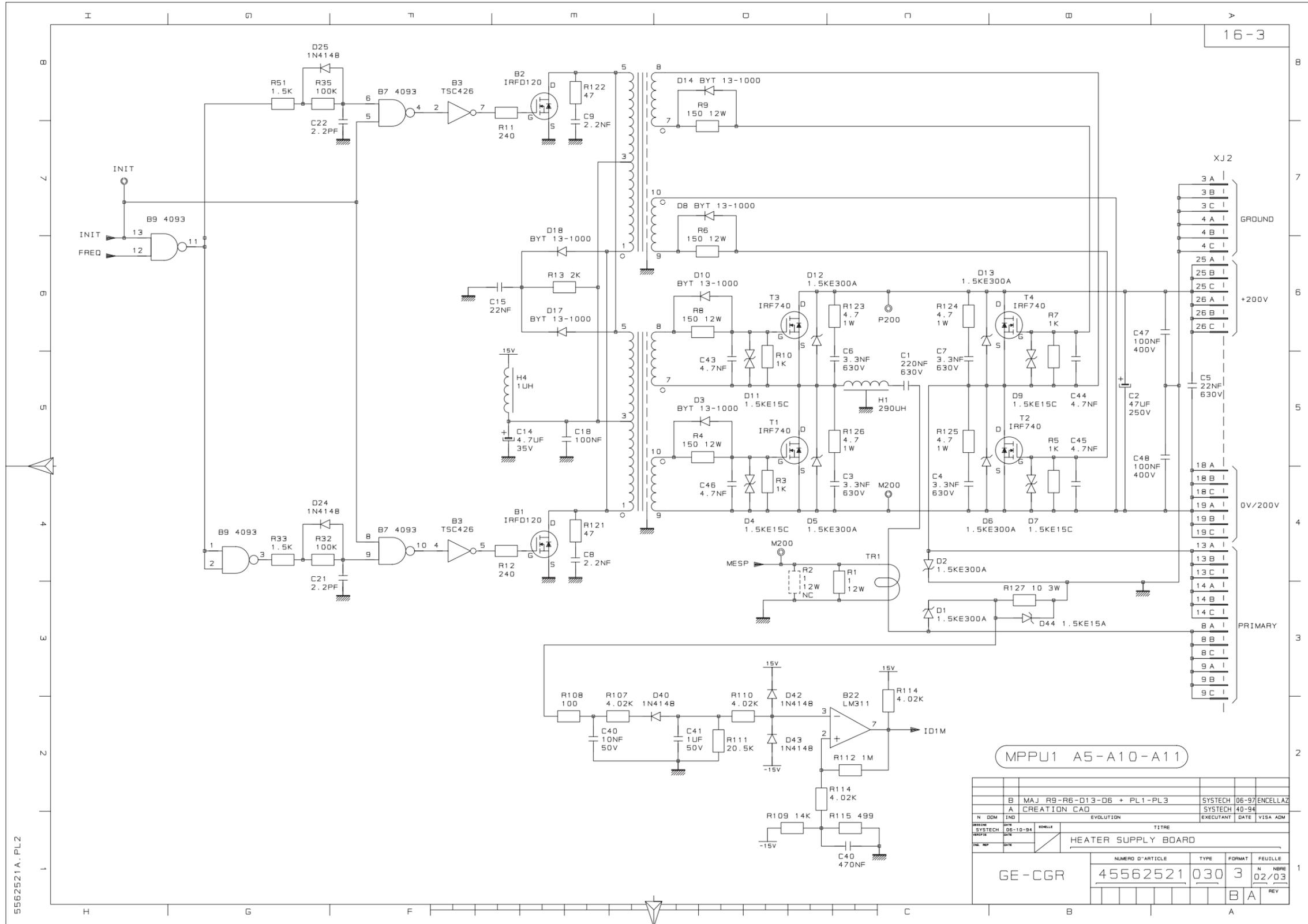
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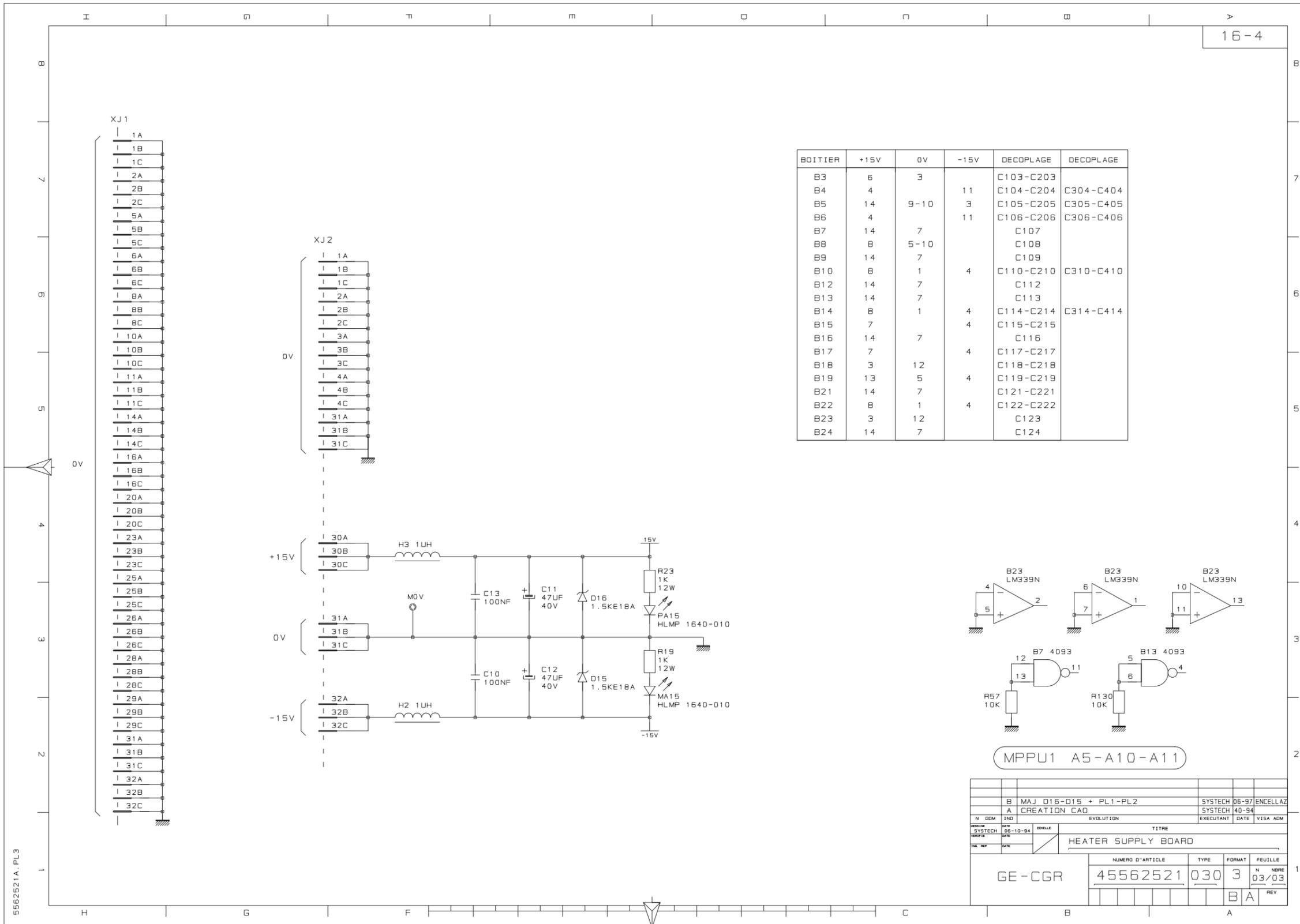
5562521A.PL1

B MAJ R48-R44 + PL2-PL3		SYSTECH	06-97	ENCELLAZ
A CREATION CAD		SYSTECH	40-94	
N	DDM	IND	EVOLUTION	
REVISE	DATE	IND	REVISE	TITRE
SYSTECH	06-10-94			
IND	DATE			
HEATER SUPPLY BOARD				
GE-CGR		NUMERO D'ARTICLE	TYPE	FORMAT
		45562521	030	3
		FEUILLE		N
				01/03
				REV
				BA

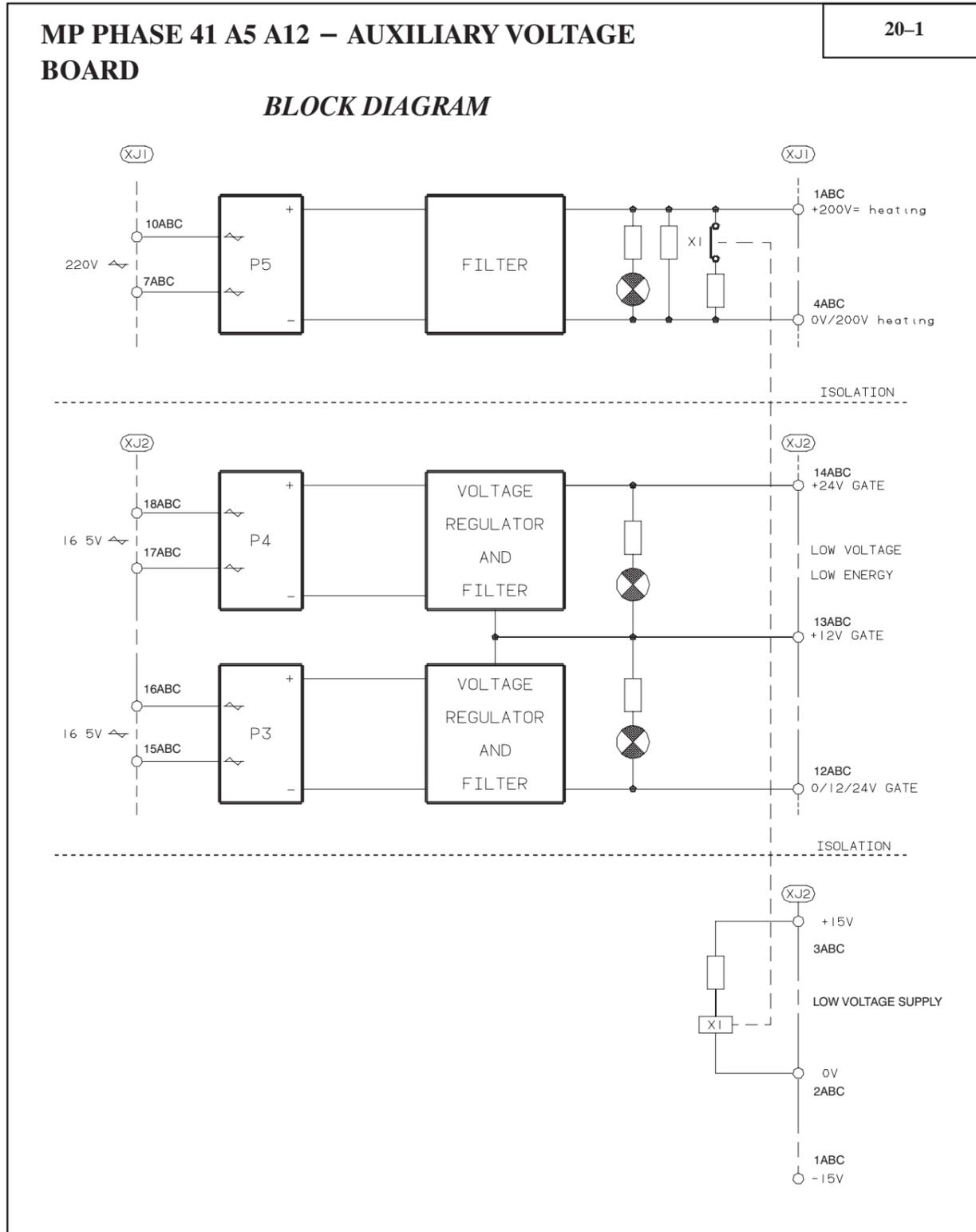
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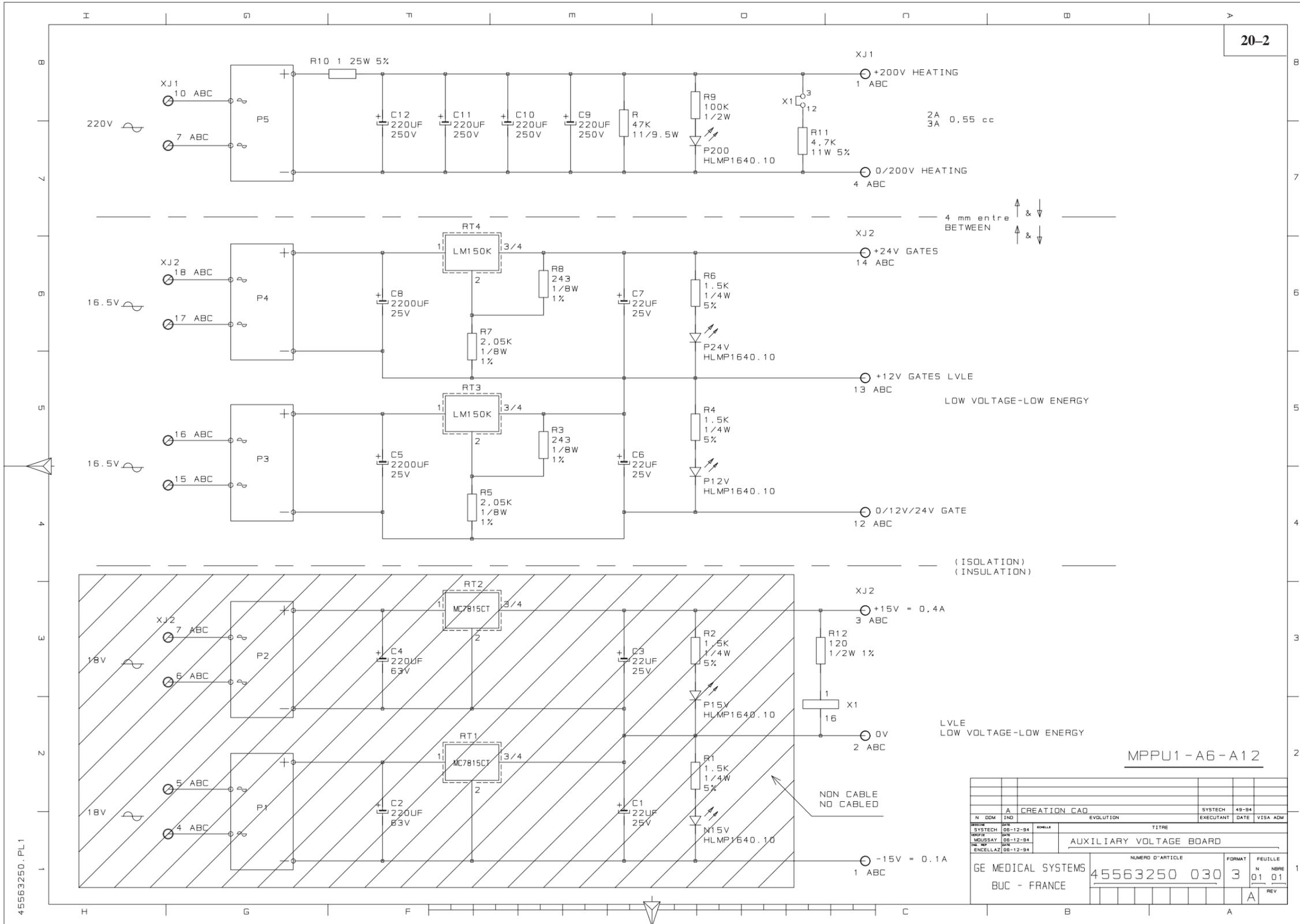
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20-2

MPPU1-A6-A12

A		CREATION CAD		SYSTEM	49-94
N	DDM	IND	EVOLUTION	EXECUTANT	DATE
SYSTEM	DATE	REV	TITRE		
SYSTEM	08-12-94				
REV	08-12-94				
ENC	08-12-94				
GE MEDICAL SYSTEMS			NUMERO D'ARTICLE	FORMAT	FEUILLE
BUC - FRANCE			45563250 030	3	01 01
					REV
					A

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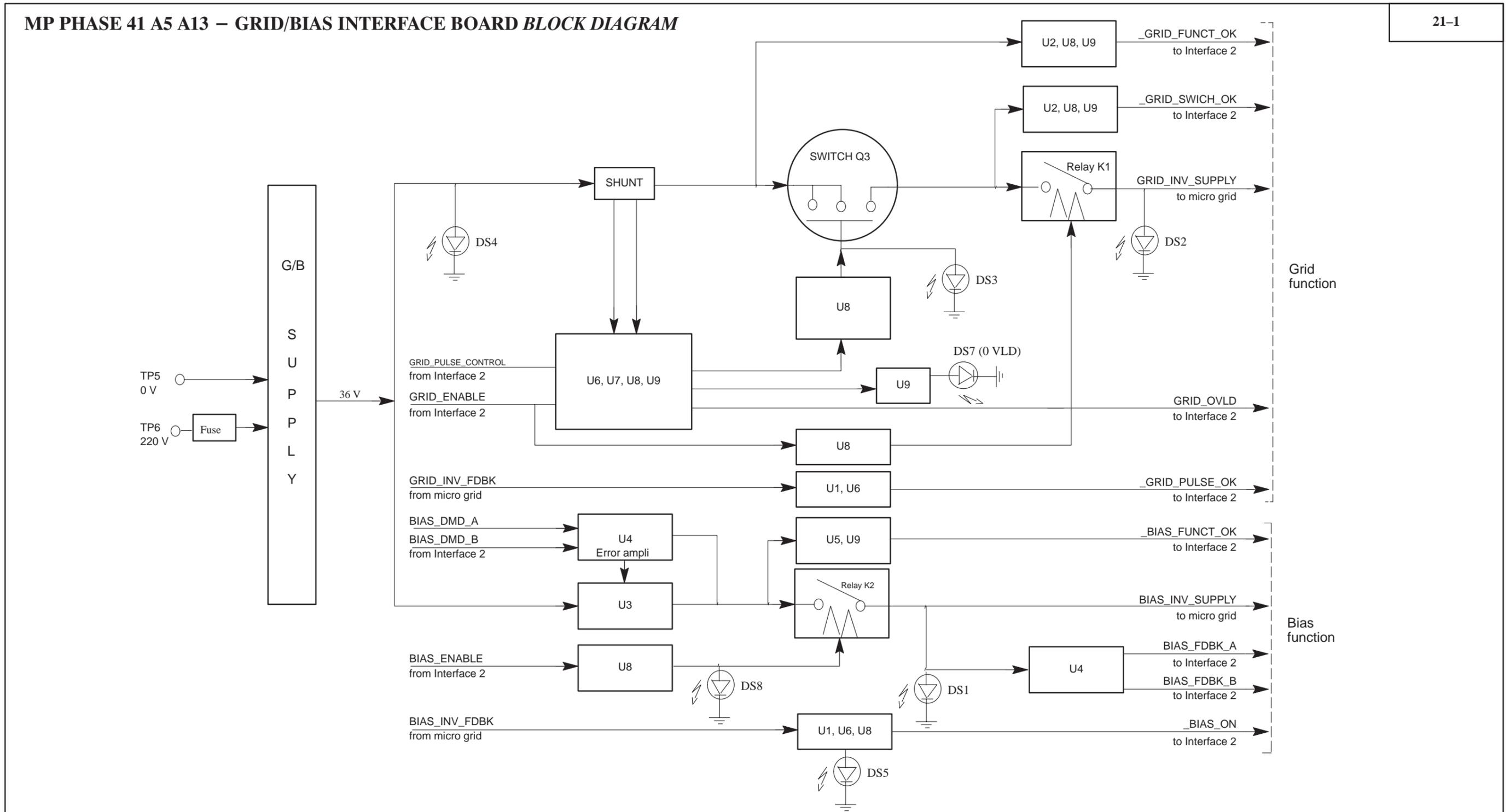
MNEMONICS

21-0

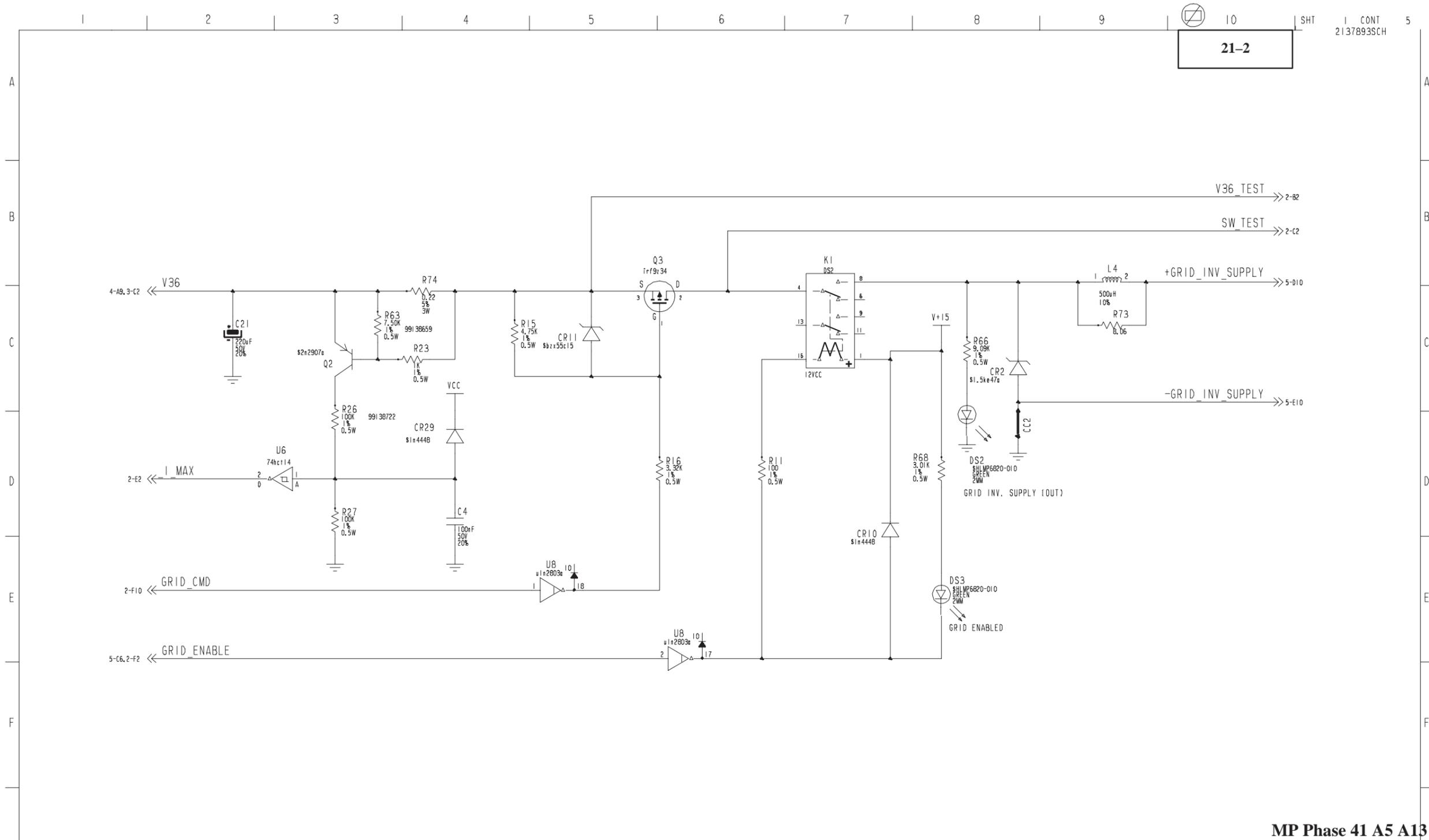
MP PHASE 41 A5 A13 – GRID/BIAS INTERFACE BOARD

GRID INV FDBK	Micro grid inverter Feeback (grid operation)
BIAS DMD A	Bias voltage value
BIAS DMD B	Bias voltage value
BIAS ENABLE	Bias enable
BIAS INV FDBK	Micro grid inverter Feeback (bias operation)
GRID FUNCT OK	36 V power supply OK
GRID SWITCH OK	36 V grid switch OK
GRID INV SUPPLY	Gird power supply
GRID 0VLD	Grid current overload
GRID PULSE OK	Feedback to Int 2 Board
BIAS FUNCT OK	Bias voltage OK
BIAS INV SUPPLY	Bias power voltage
BIAS FDBK A	Bias voltage Feedback
BIAS FDBK B	Bias voltage Feedback
BIAS ON	Bias voltage Feedback to Int 2 Board

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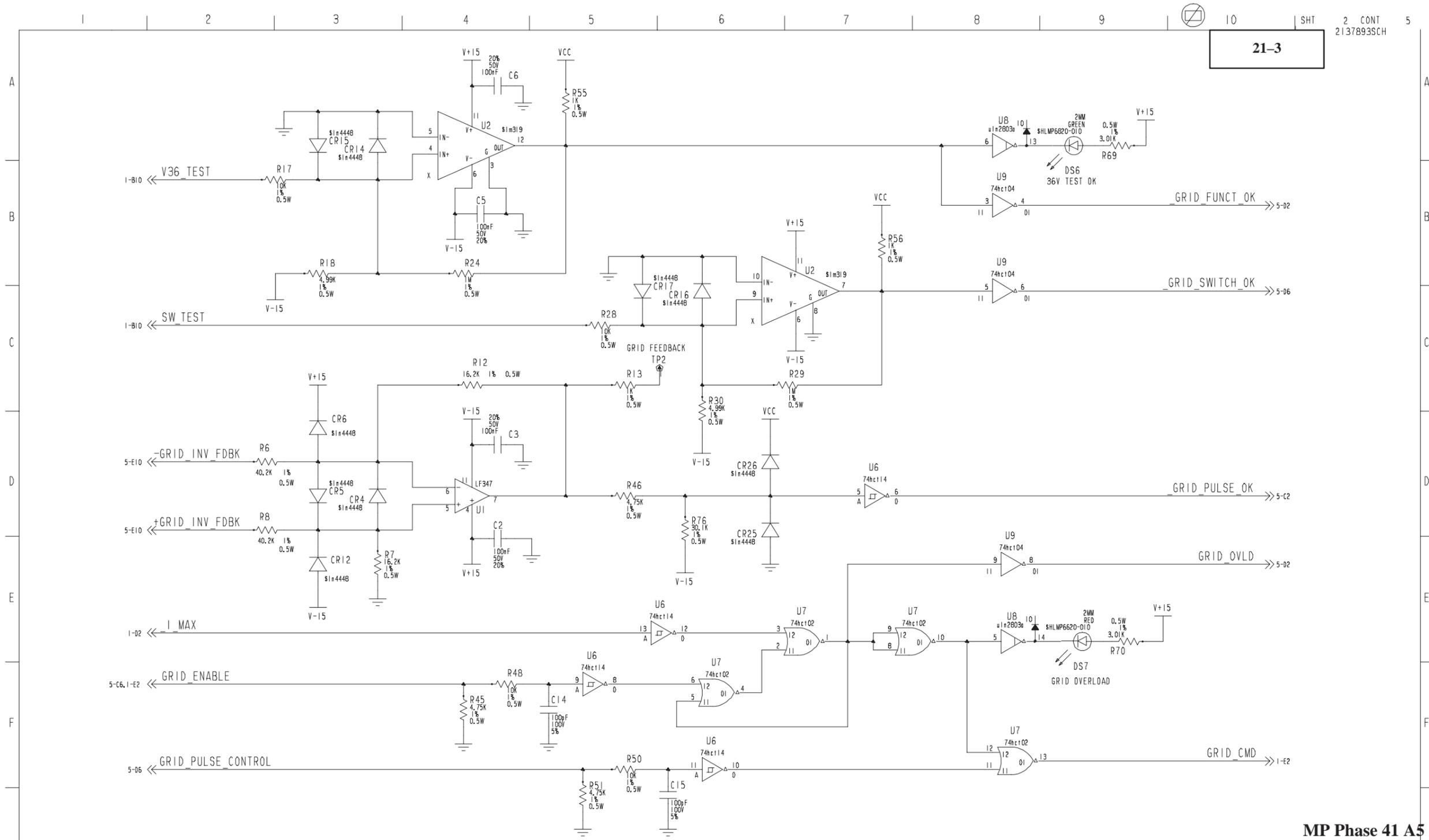
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MP Phase 41 A5 A13

BLOCK PATHNAME \$PROJECT VAMP/gb_int_v4_ASM/gb_int_v4				BLOCK SHT 1 OF 5				DESIGN TITLE G/B INTERFACE				
REV 1	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MADE	NGO	DATE	07-06-95	FIRST MADE FOR VAMP			
MADE BY	NAME		DATE	DD/MM/YY	CHECK	ENCELLAZ	DATE	07-06-95	DRAWING NO. 2137893SCH			
MADE BY	NAME		DATE	DD/MM/YY	APPR	NAME	DATE	DD/MM/YY	REV	SIZE	SHT/CONT	ON
REV 2	PCN	XXXXXXXX	DESCRIPTION	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	OTHER		DATE		A	3	1 / 5	

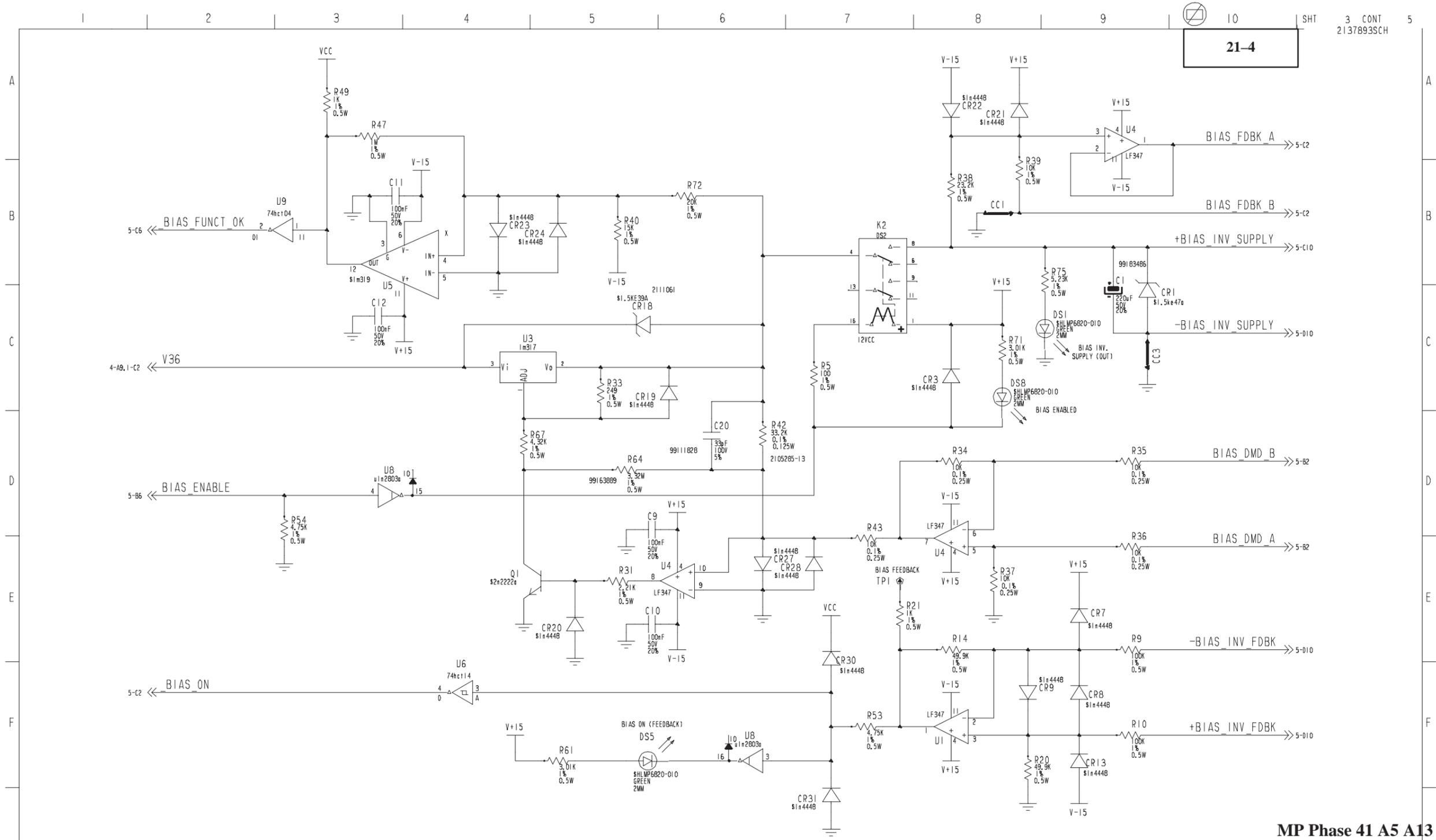
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MP Phase 41 A5 A13

BLOCK PATHNAME \$PROJECT VAMP/gb_int_v4 ASM/gb_int_v4				BLOCK SHT 2 OF 5				DESIGN TITLE G/B INTERFACE			
REV 1	PCN xxxxxxxx	DESCRIPTION xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	NGO	DATE 07-06-95	GE Medical Systems				FIRST MADE FOR VAMP	
MADE BY	NAME	DATE DD/MM/YY	CHECK	ENCELLAZ	DATE 07-06-95	BUC - FRANCE				DRAWING NO. 2137893SCH	
REV 2	PCN xxxxxxxx	DESCRIPTION xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	NAME	DATE DD/MM/YY	REV	SIZE	SHT/CONT	ON		
MADE BY	NAME	DATE DD/MM/YY	APPR	NAME	DATE DD/MM/YY	A	3	2 / 5			

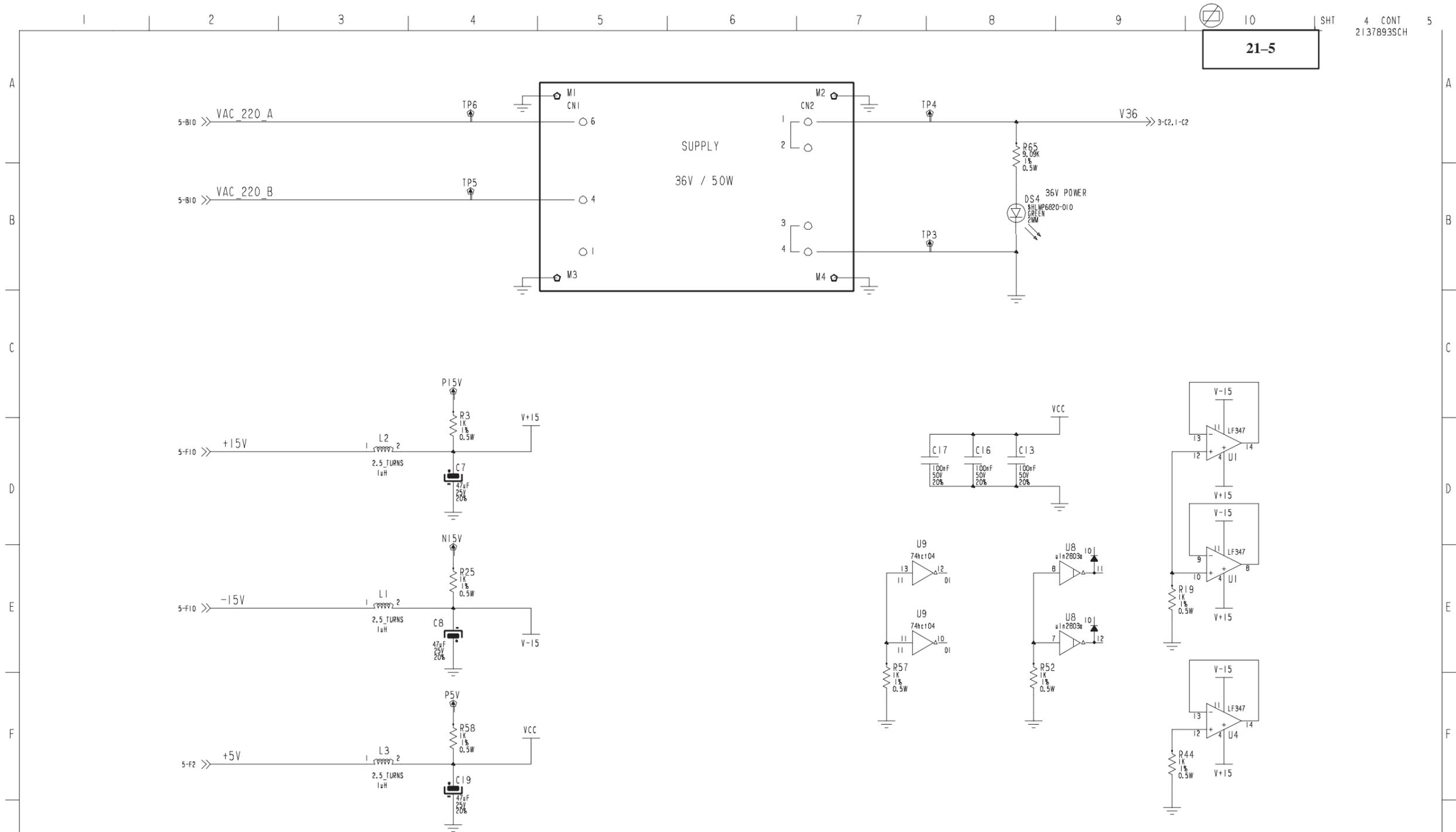
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MP Phase 41 A5 A13

BLOCK PATHNAME				sPROJECT VAMP/gb_int_v4 ASM/gb_int_v4				BLOCK SHT				3 OF 5									
REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	NGO	DATE	07-06-95	GE Medical Systems				DESIGN TITLE								
MADE BY	NAME		DATE	DD/MM/YY	CHECK	ENCELLAZ	DATE	07-06-95	BUC - FRANCE				G/B INTERFACE								
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	NAME	DATE	DD/MM/YY					FIRST MADE FOR								
MADE BY	NAME		DATE	DD/MM/YY	OTHER		DATE						VAMP								
												DRAWING NO.		REV		SIZE		SHT/CONT		ON	
												2137893SCH		A		3		3 / 5			

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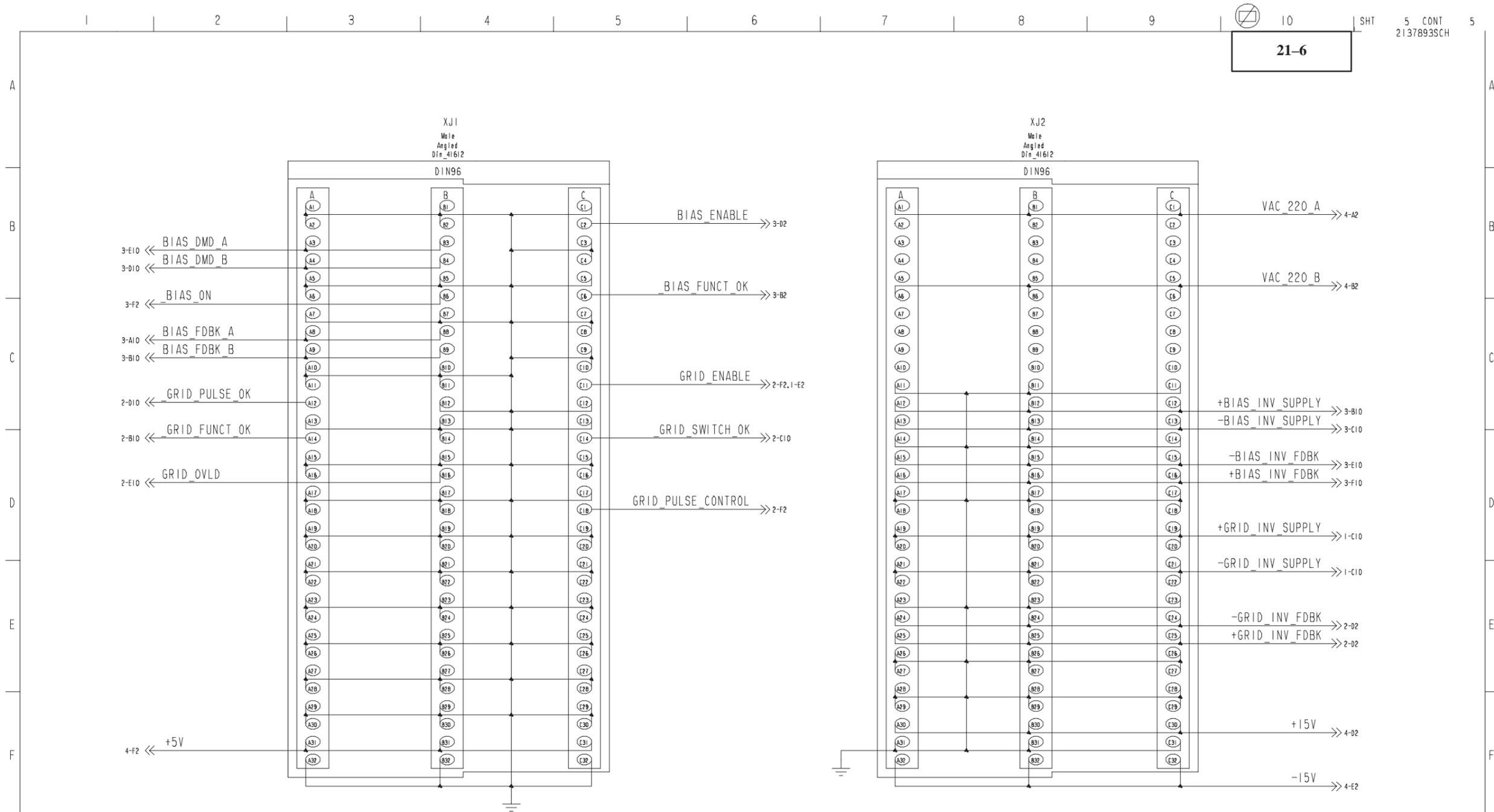
21-5

4 CONT
2137893SCH

MP Phase 41 A5 A13

BLOCK PATHNAME				sPROJECT VAMP/gb_int_v4_ASM/gb_int_v4				BLOCK SHT				4 OF 5				
REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	NGO	DATE	07-06-95	DESIGN TITLE				G/B INTERFACE			
MADE BY	NAME		DATE	DD/MM/YY	CHECK	ENCELLAZ	DATE	07-06-95	FIRST MADE FOR				VAMP			
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	NAME	DATE	DD/MM/YY	DRAWING NO.				REV	SIZE	SHT/CONT	ON
MADE BY	NAME		DATE	DD/MM/YY	OTHER		DATE		2137893SCH				A	3	4 / 5	

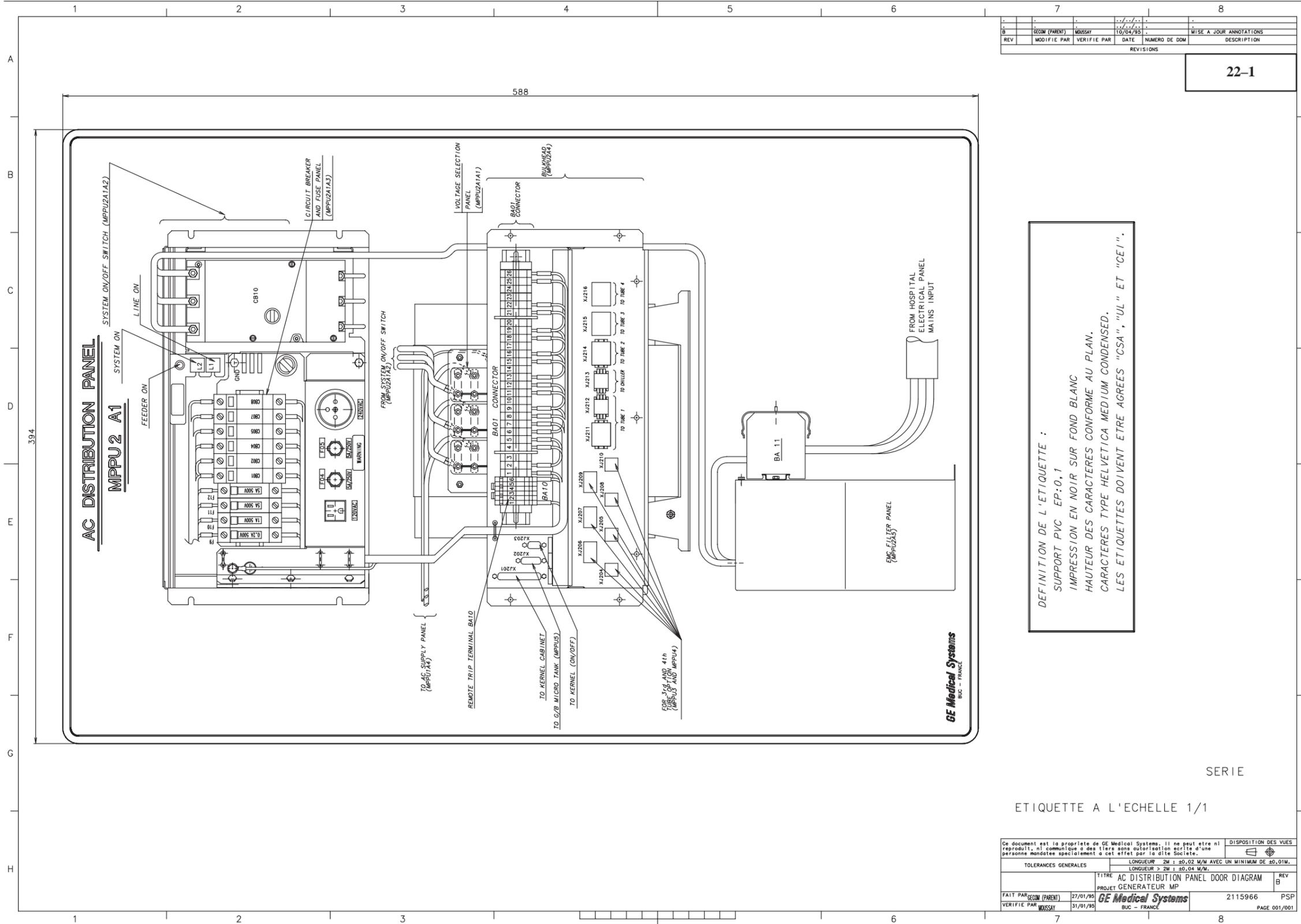
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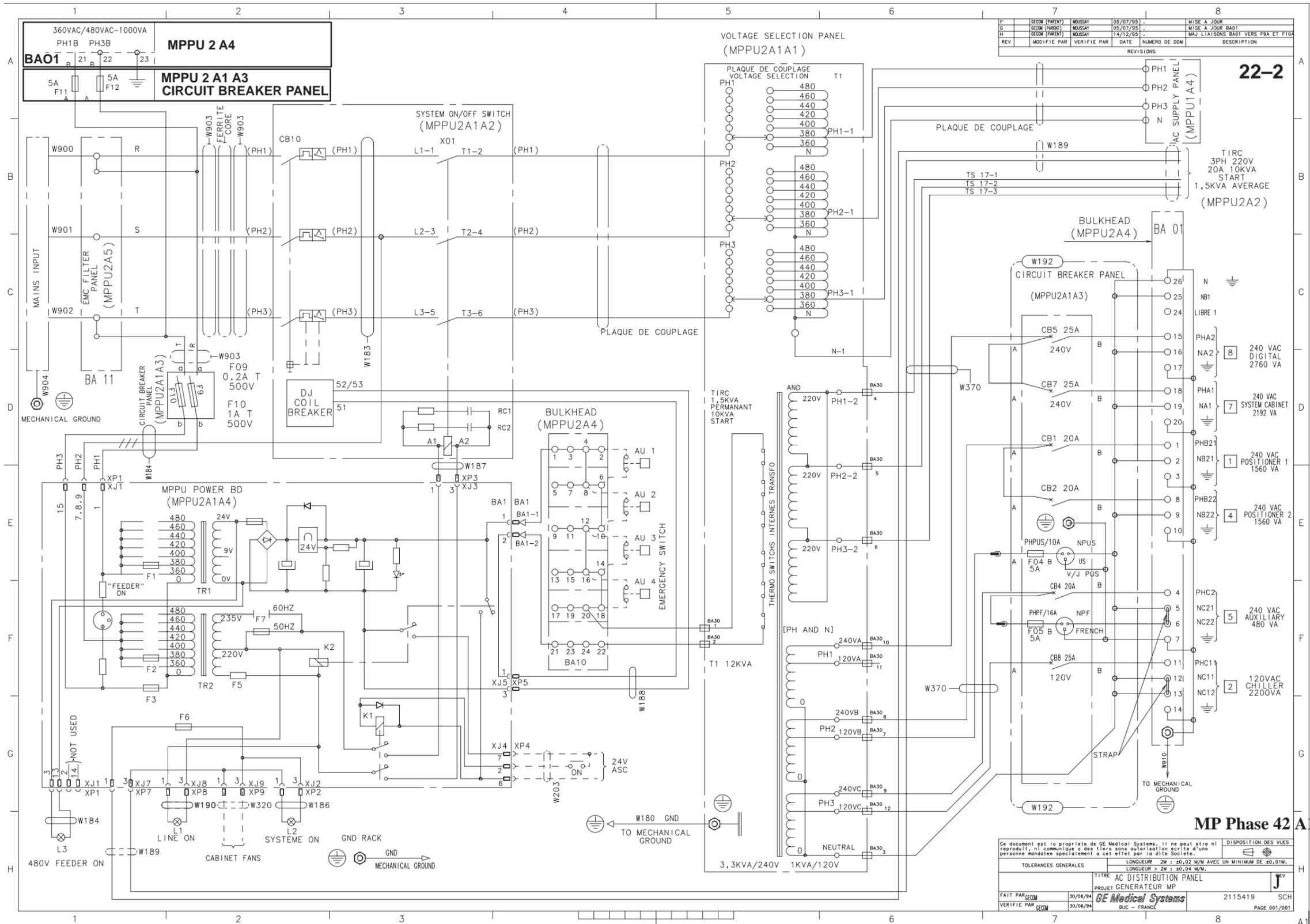
MP Phase 41 A5 A13

BLOCK PATHNAME \$PROJECT VAMP/gb_int_v4 ASM/gb_int_v4				BLOCK SHT 5 OF 5				DESIGN TITLE G/B INTERFACE					
REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	NGO	DATE	07-06-95	FIRST MADE FOR				
MADE BY	NAME		DATE	DD/MM/YY	CHECK	ENCELLAZ	DATE	07-06-95	VAMP				
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	APPR	NAME	DATE	DD/MM/YY	DRAWING NO.				
MADE BY	NAME		DATE	DD/MM/YY	OTHER		DATE		2137893SCH	REV	SIZE	SHT/CONT	ON
									A	3	5 / 5		

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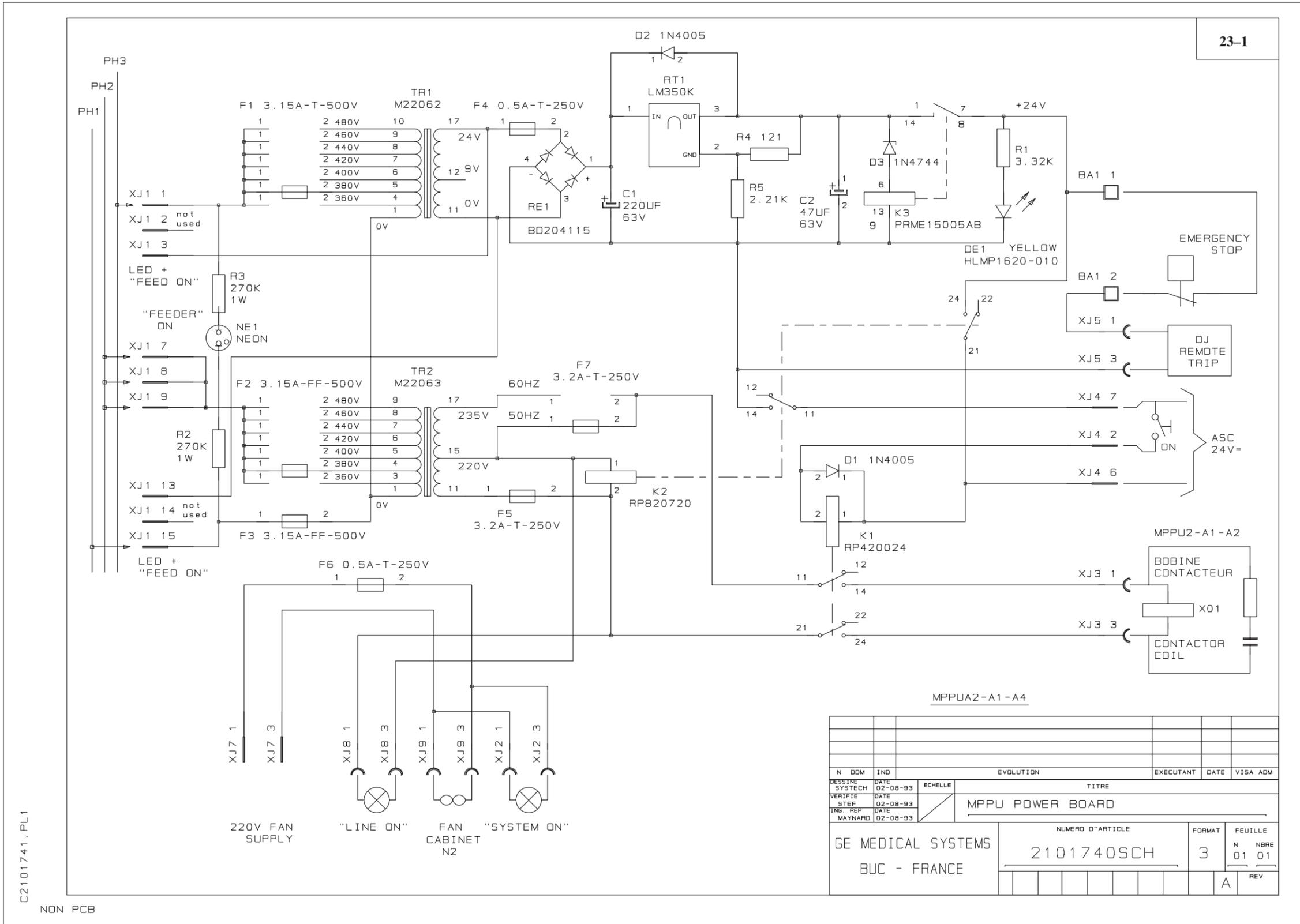


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23-1



MPPUA2-A1-A4

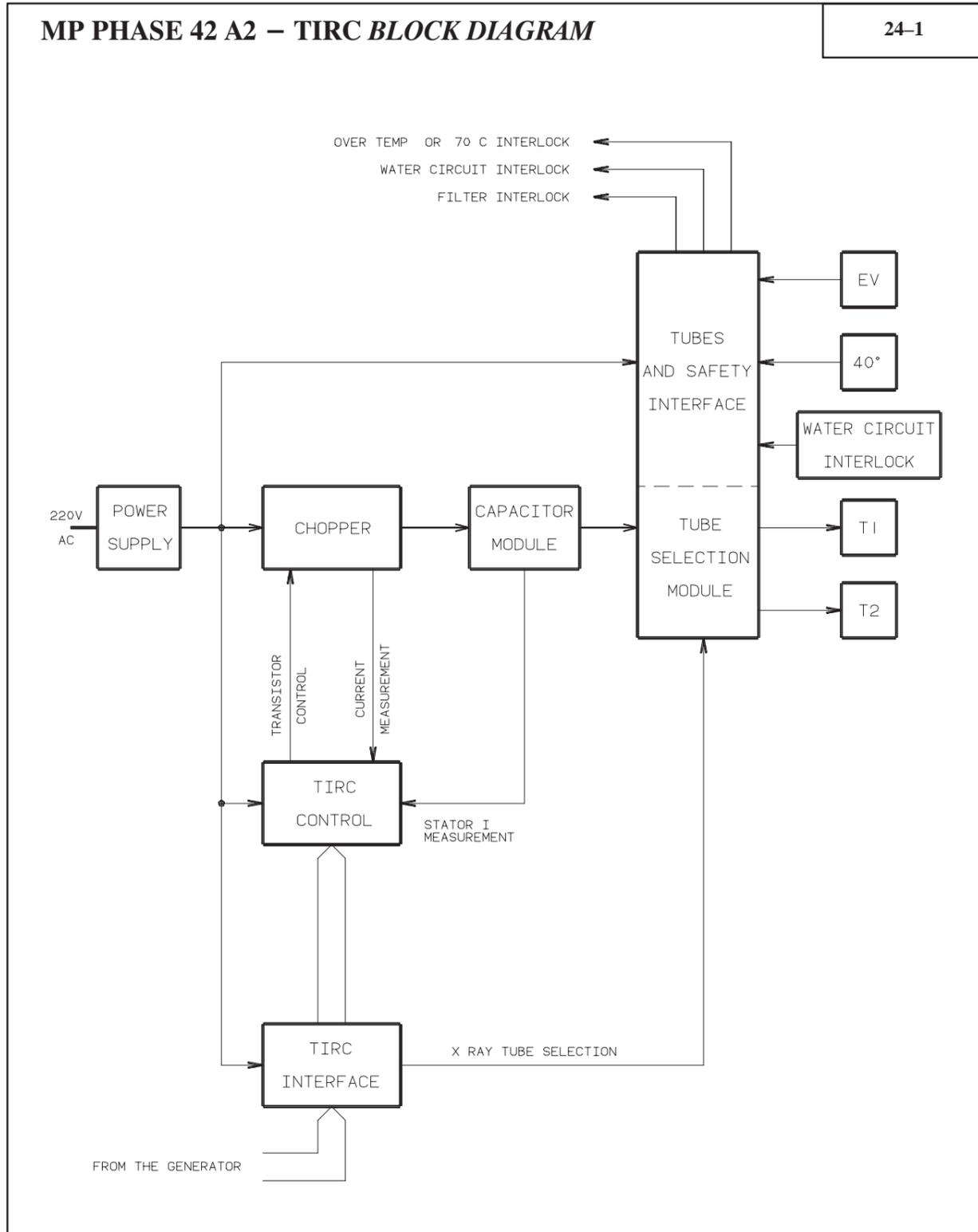
N	DDM	IND	EVOLUTION	EXECUTANT	DATE	VISA	ADM
DESIGNE	DATE	02-08-93	ECHELLE	TITRE			
SYSTECH	DATE	02-08-93	MPPU POWER BOARD				
VERIFIE	DATE	02-08-93	NUMERO D'ARTICLE				
STEF	DATE	02-08-93	2101740SCH				
TNS-REP	DATE	02-08-93	FORMAT	FEUILLE			
MAYNARD				3	N NBRE		
				01 01		REV	
				A			

GE MEDICAL SYSTEMS
BUC - FRANCE

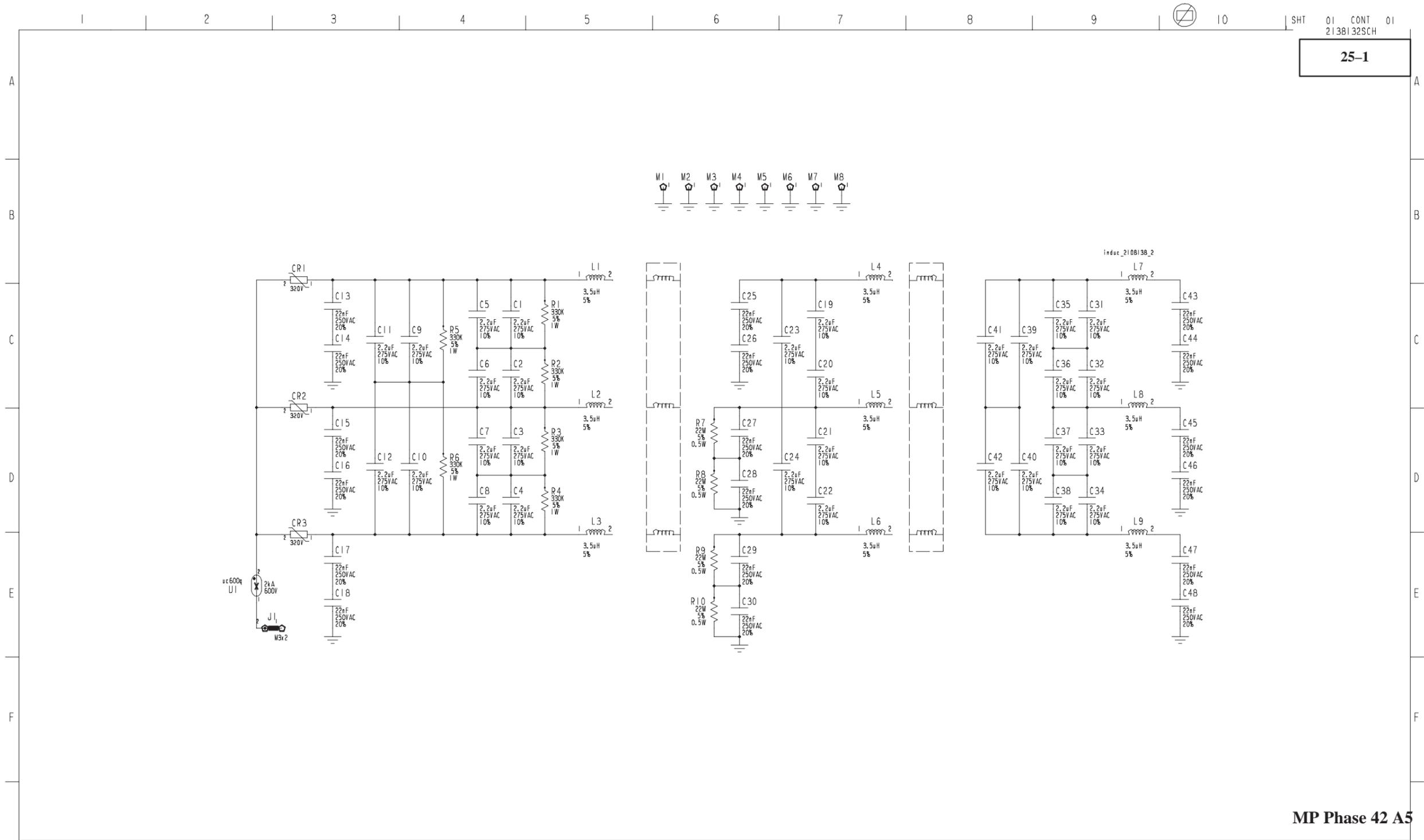
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NON PCB

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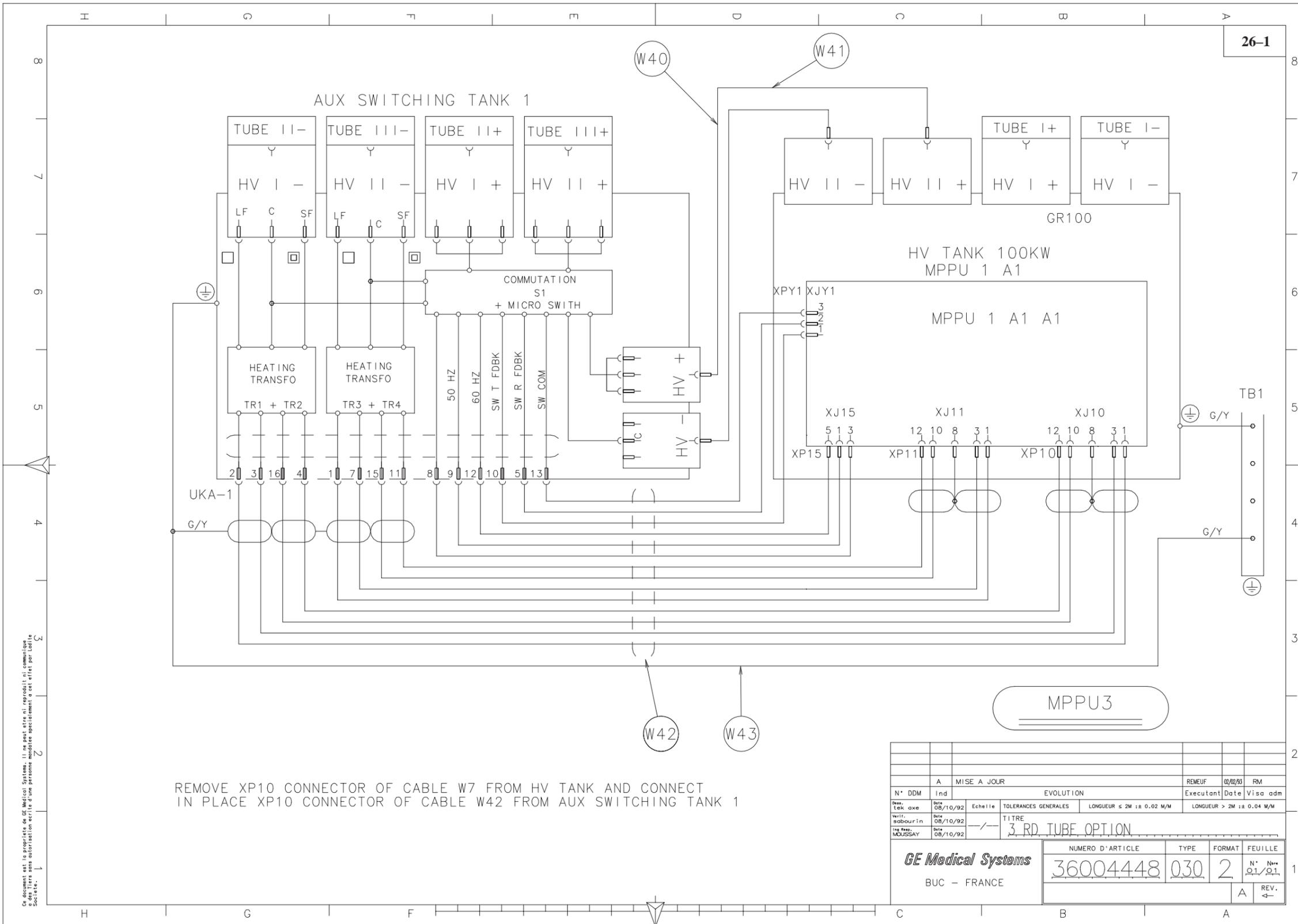
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MP Phase 42 A5

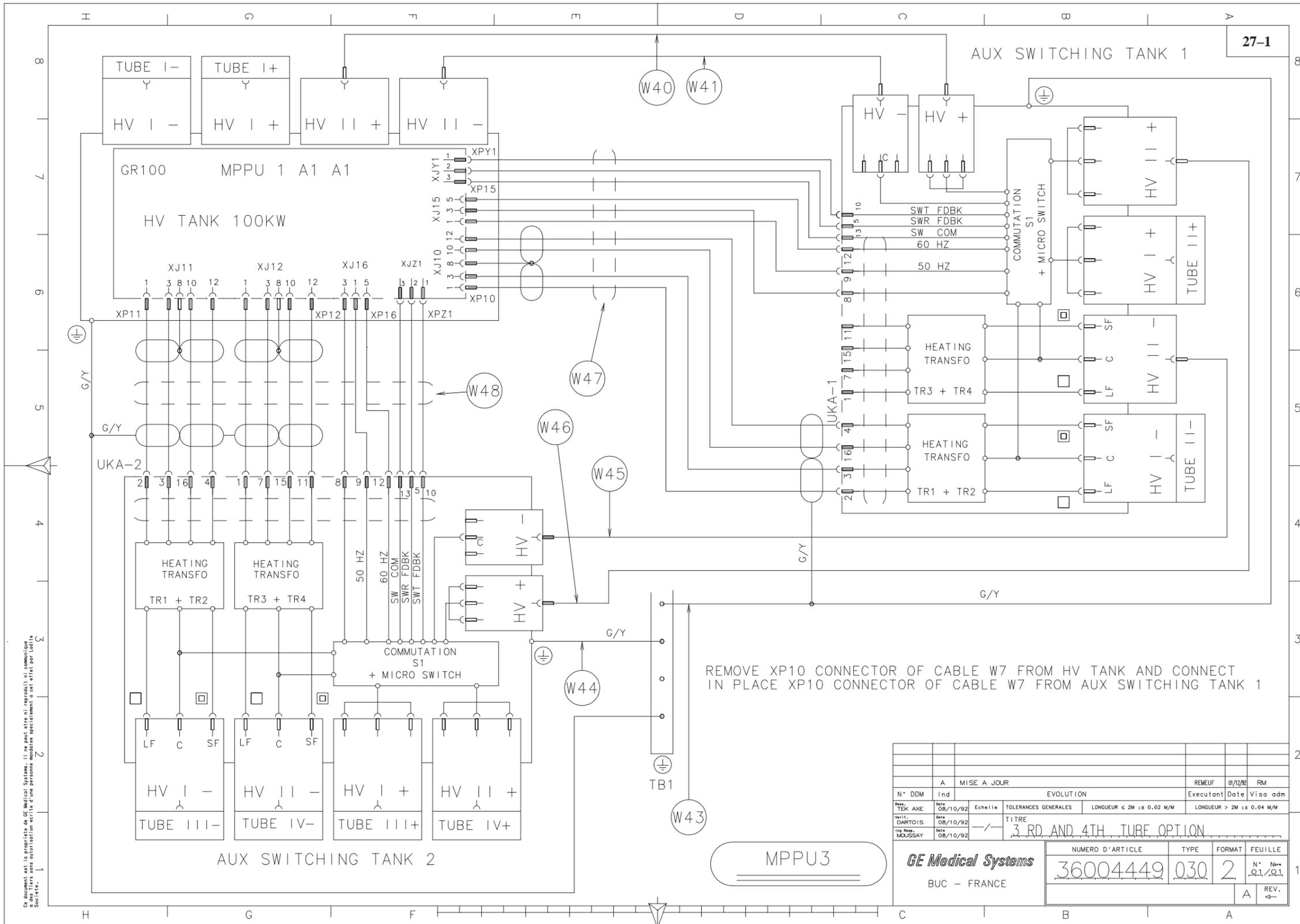
BLOCK PATHNAME \$PROJECT VAMP/filv3_ASM/filv3				BLOCK SHT 01 OF 01				DESIGN TITLE FILTER								
REV 1	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	ASSE	DATE	10/06/95	DATE	10/06/95	FIRST MADE FOR	VAMP	REV	SIZE	SHT/CONT	ON
MADE BY	NAME		DATE	DD/MM/YY	APPR BY	NAME	DATE	DD/MM/YY	DATE	DD/MM/YY	DRAWING NO.	213B132SCH	A	3	01 / 01	
REV 2	PCN	xxxxxxx	DESCRIPTION	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	MADE	ENCELLAZ	DATE	DD/MM/YY	DATE	DD/MM/YY						
MADE BY	NAME		DATE	DD/MM/YY	APPR BY	NAME	DATE	DD/MM/YY	DATE	DD/MM/YY						

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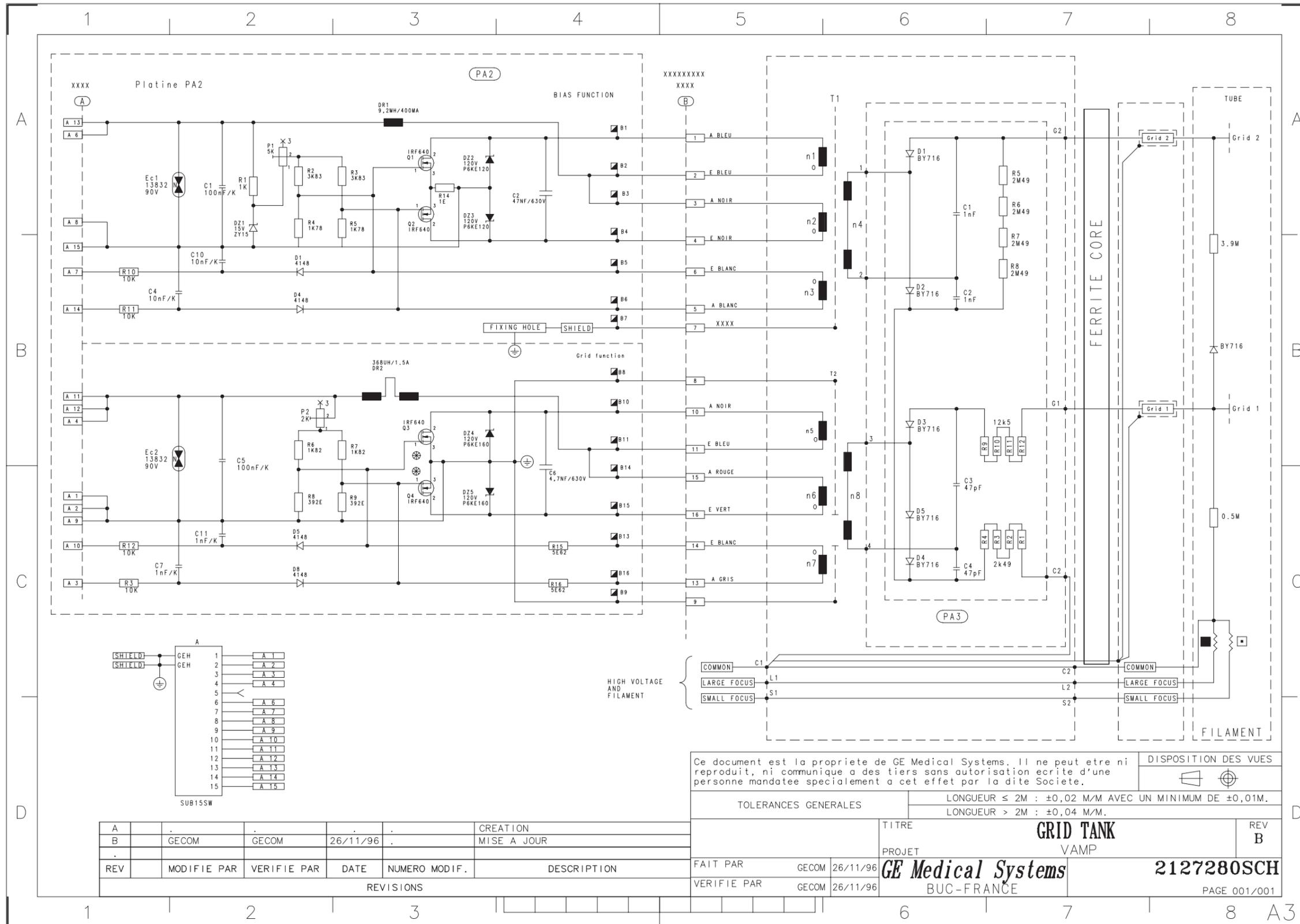


A		MISE A JOUR		REMEUF	02/02/03	RM
N°	DDM	Ind	EVOLUTION		Executant	Date
Des. tek. axe	Date	Echelle	TOLERANCES GENERALES	LONGUEUR ≤ 2M : ± 0.02 M/M	LONGUEUR > 2M : ± 0.04 M/M	
W41	08/10/92		TITRE			
suboupin	08/10/92		3 RD. TUBE OPTION			
Des. tek.	Date					
MOUSSAY	08/10/92					
GE Medical Systems		NUMERO D'ARTICLE	TYPE	FORMAT	FEUILLE	
BUC - FRANCE		36004448	030	2	N° N° 01/01	
				A	REV. ←	

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DISPOSITION DES VUES

TOLERANCES GENERALES

LONGUEUR ≤ 2M : ±0,02 M/M AVEC UN MINIMUM DE ±0,01M.
LONGUEUR > 2M : ±0,04 M/M.

TITRE: **GRID TANK**

PROJET: **VAMP**

FAIT PAR: GECOM 26/11/96

VERIFIE PAR: GECOM 26/11/96

REV B

2127280SCH

GE Medical Systems BUC-FRANCE

PAGE 001/001

REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
A	.	.	.	.	CREATION
B	GECOM	GECOM	26/11/96	.	MISE A JOUR
REV	MODIFIE PAR	VERIFIE PAR	DATE	NUMERO MODIF.	DESCRIPTION

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