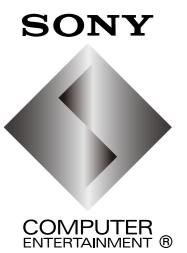


CECHG series

SM-PS3-0093E-02

**PLAYSTATION® 3 SEM-001
BOARD SERVICE MANUAL 2nd edition Level 3**

PLAYSTATION 3



Sony Computer Entertainment Inc.
CS Department
Published in Japan © 2007. 10

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the power cable for cracks and abrasion. Recommend the replacement of any such power cable to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

CAUTION:

The use of optical instruments with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 25 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

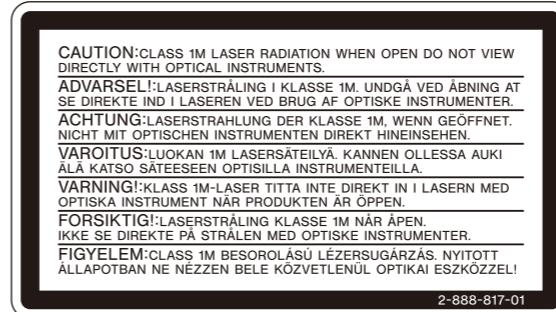
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

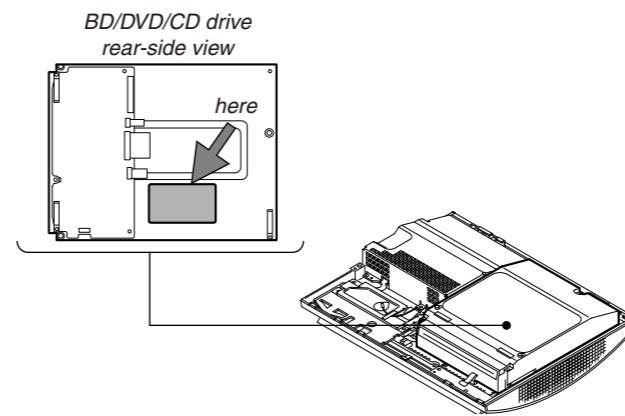
CAUTION

Ensure that this product is disconnected from the power plug before the laser protective housing is removed.

CLASS 1M LASER RADIATION WHEN OPEN DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.



This label is located on the BD/DVD/CD Drive laser protective housing inside the enclosure.



CAUTION

Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

Lithium Batteries

If an equipment is provided with a replaceable lithium battery, the following applies:

- if the battery is placed in an OPERATOR ACCESS AREA, there shall be a warning close to the battery or in both the operating and the service instructions:
- if the battery is placed elsewhere in the equipment, there shall be a warning close to the battery or in the service instructions.

SPECIAL COMPONENT NOTICE

The components identified by mark \triangle contain confidential information.

Strictly follow the instructions whenever the components are repaired and/or replaced.

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SEM-001 Board.....	3-1

**SECTION 1
CIRCUIT DIAGRAM****Note on Schematic Diagram:**

- All capacitors are in μF unless otherwise noted.
pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4$ W or less unless otherwise specified.
- % : indicates tolerance.

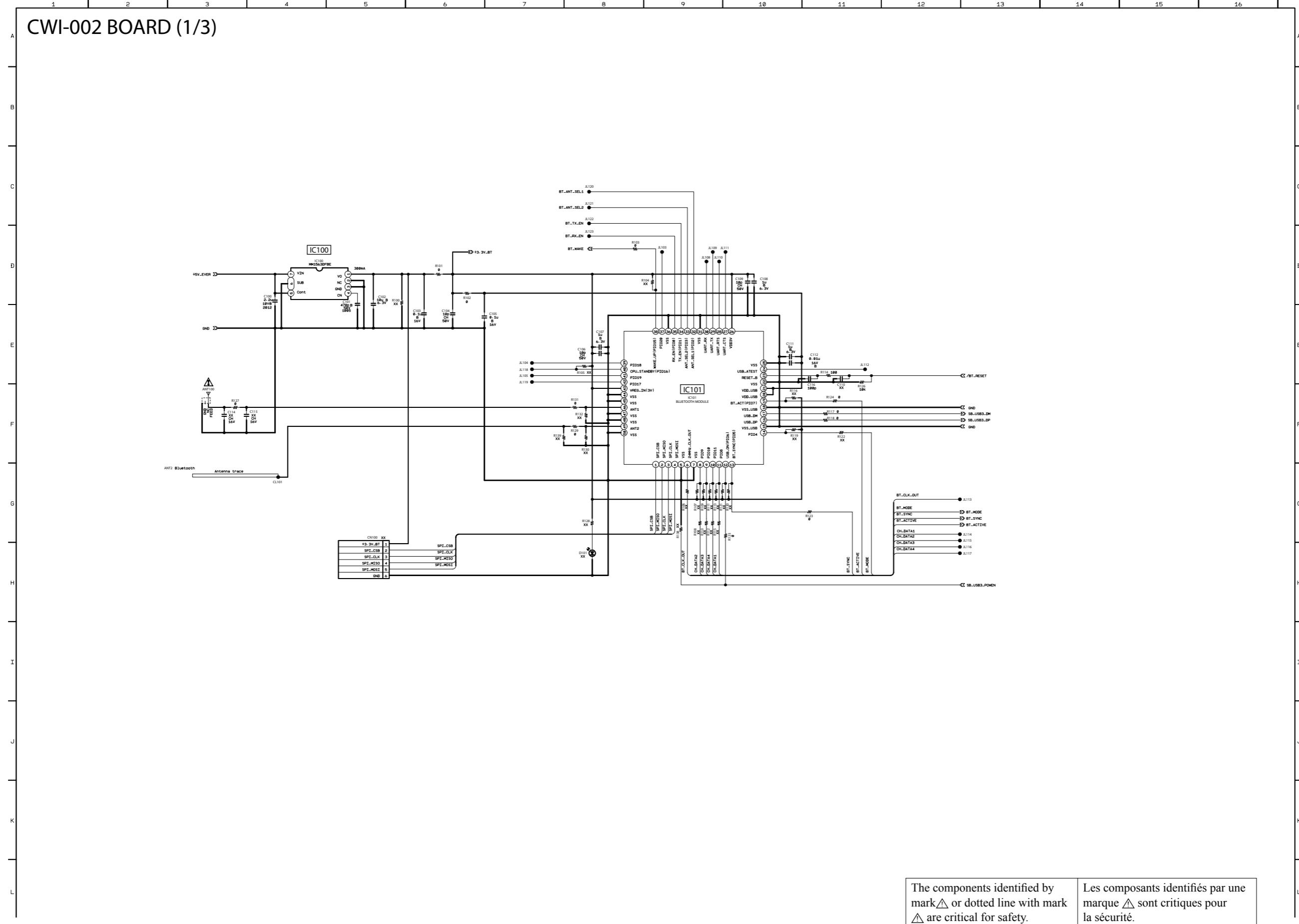
Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

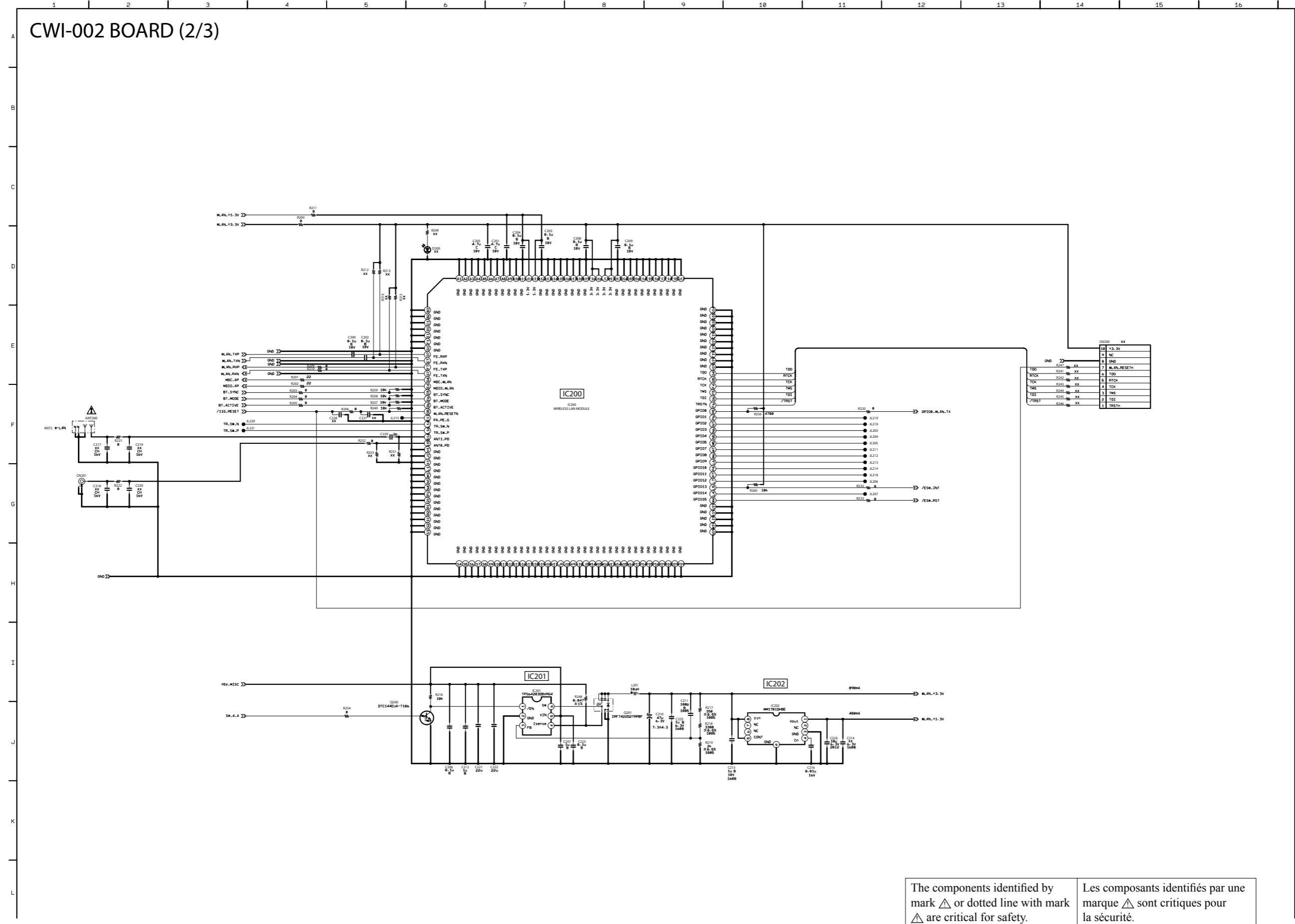
1-1. CWI-002 BOARD (1/3)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

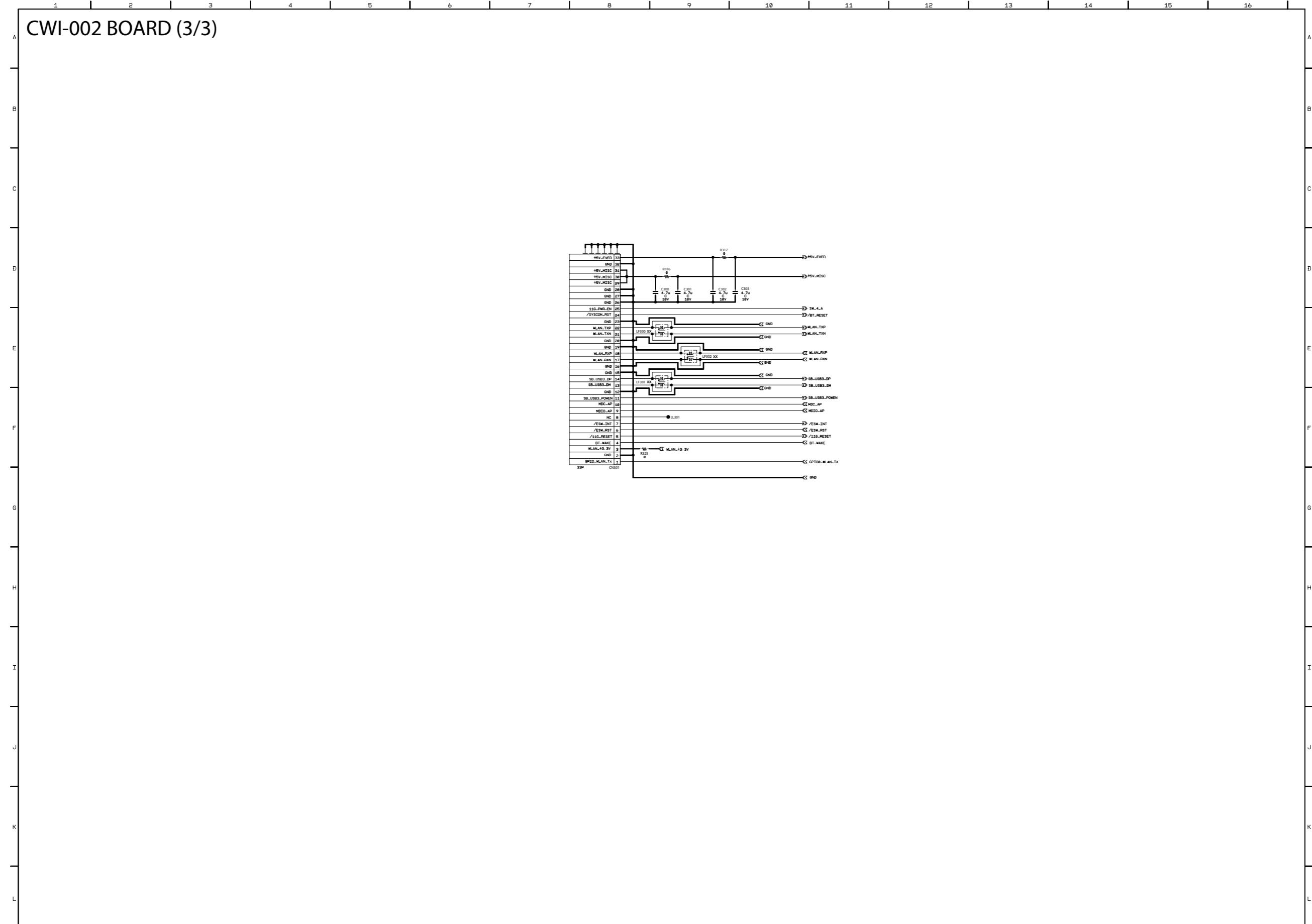
1-2. CWI-002 BOARD (2/3)



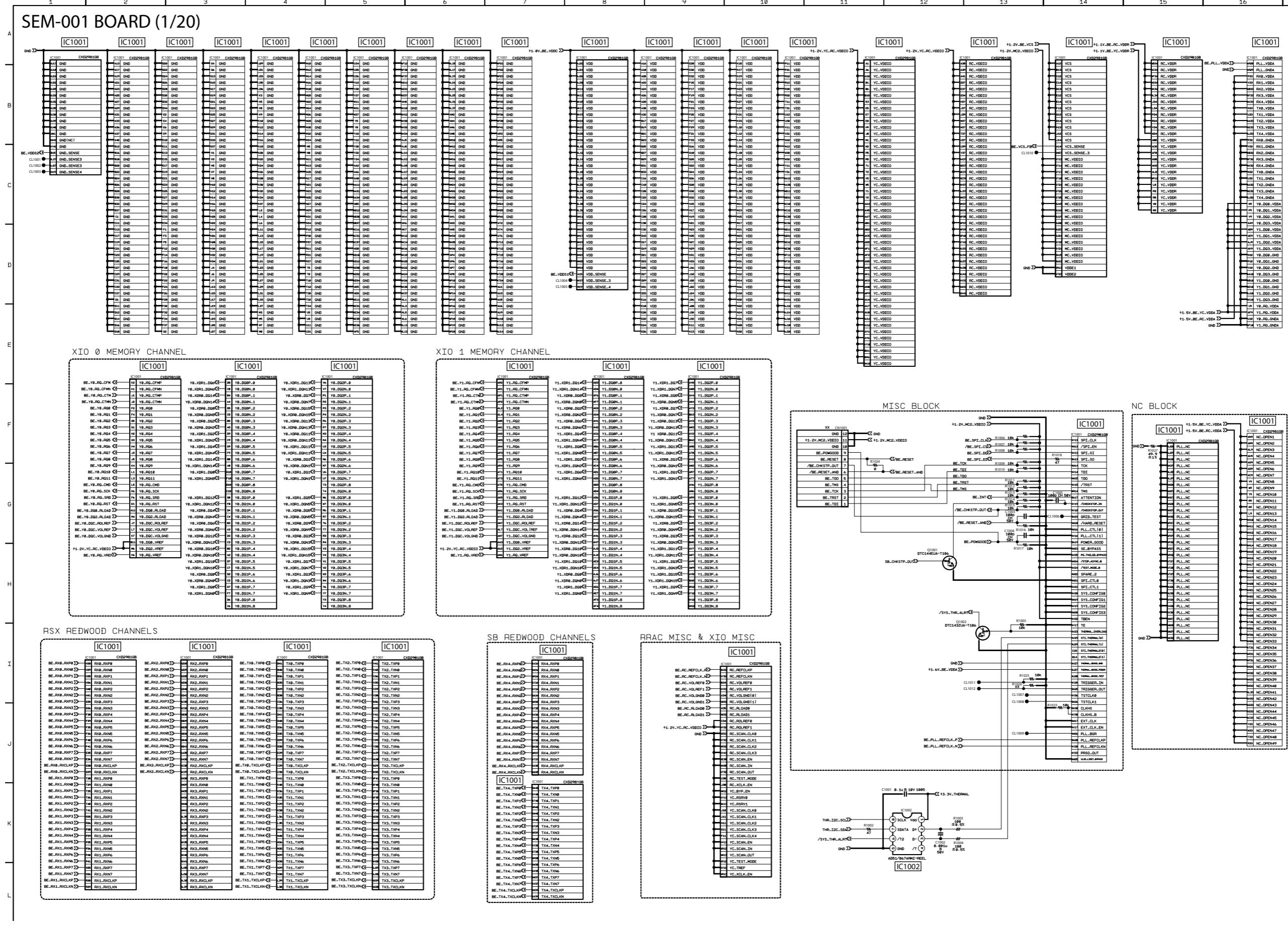
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

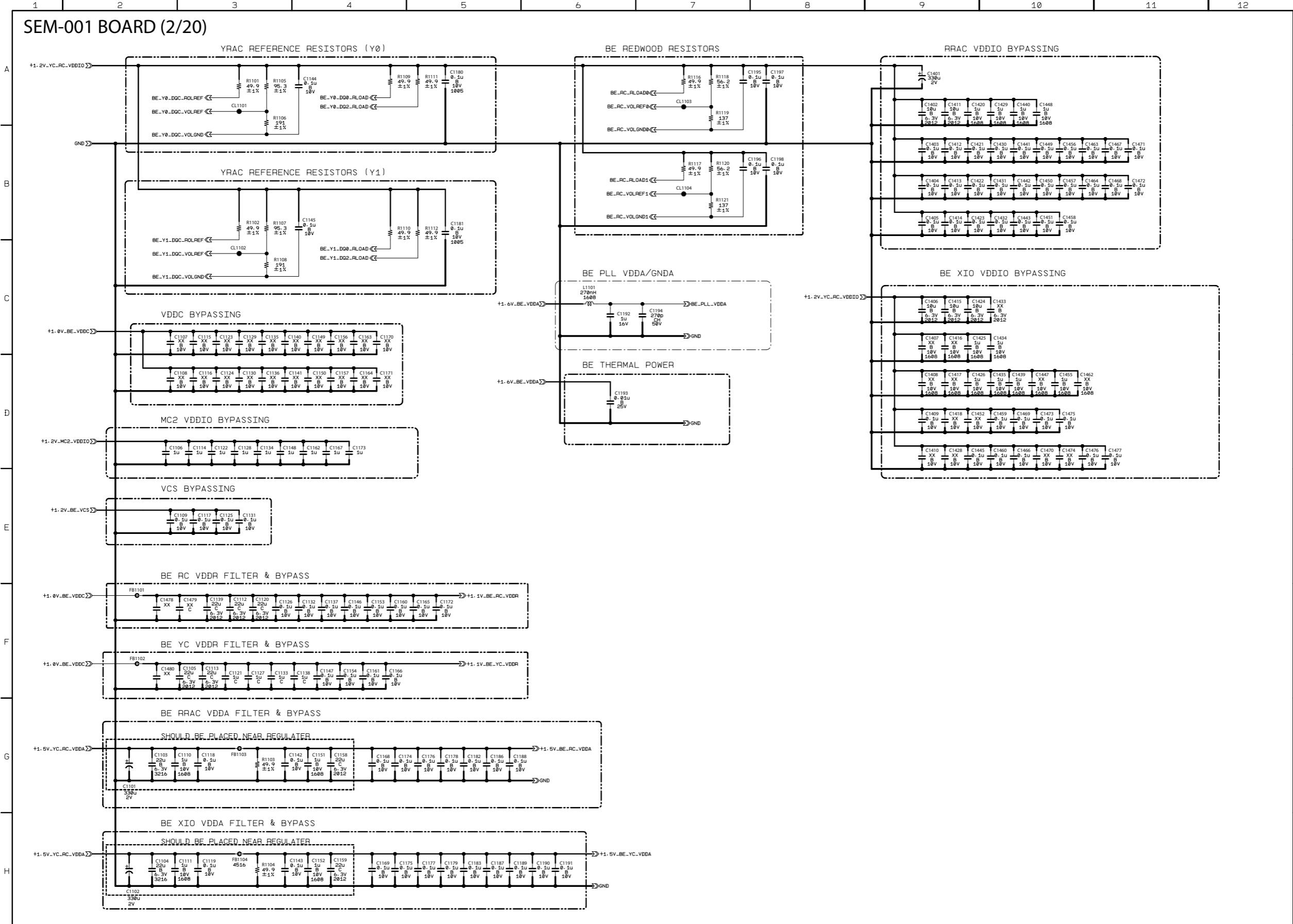
1-3. CWI-002 BOARD (3/3)



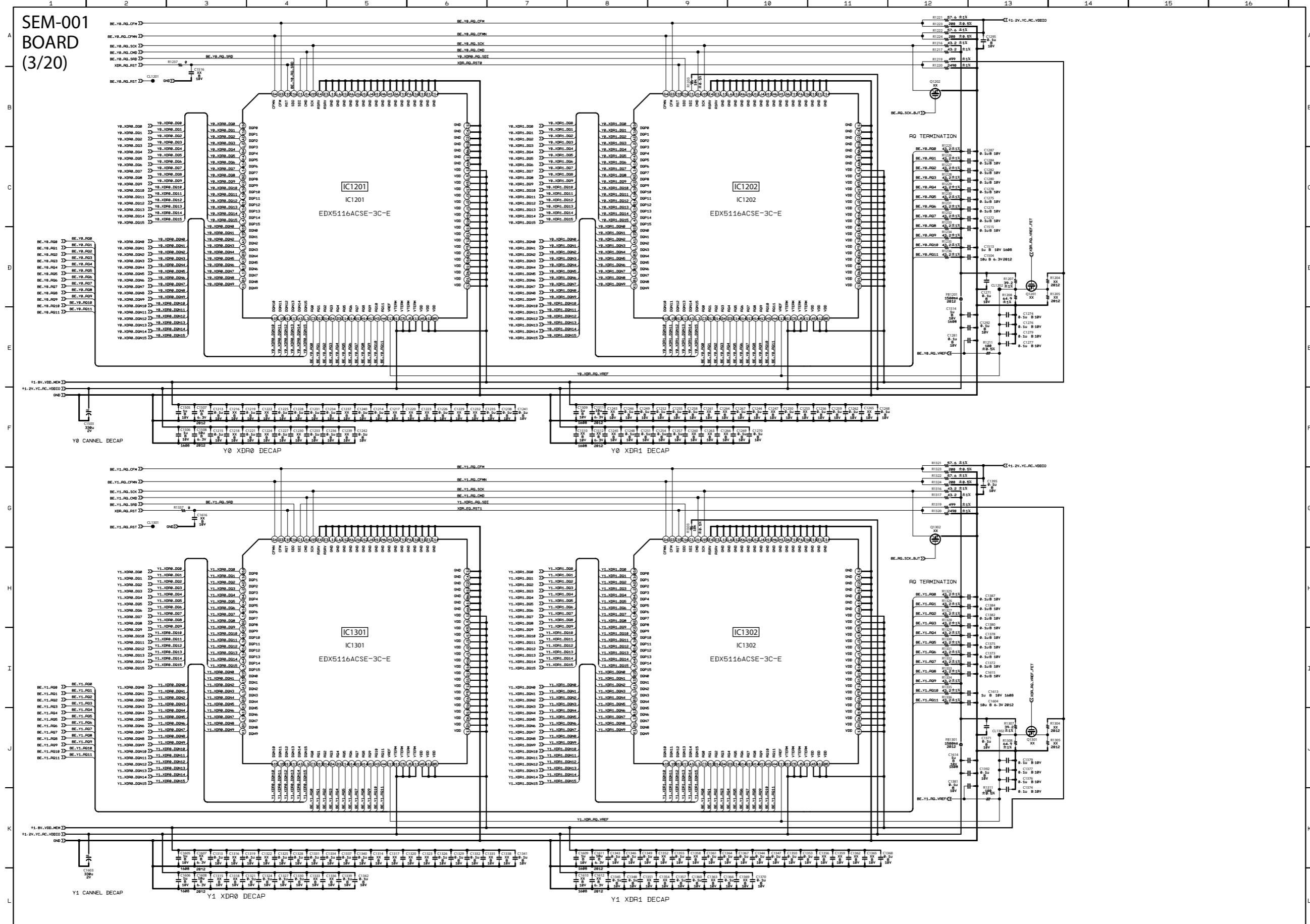
1-4. SEM-001 BOARD (1/20)



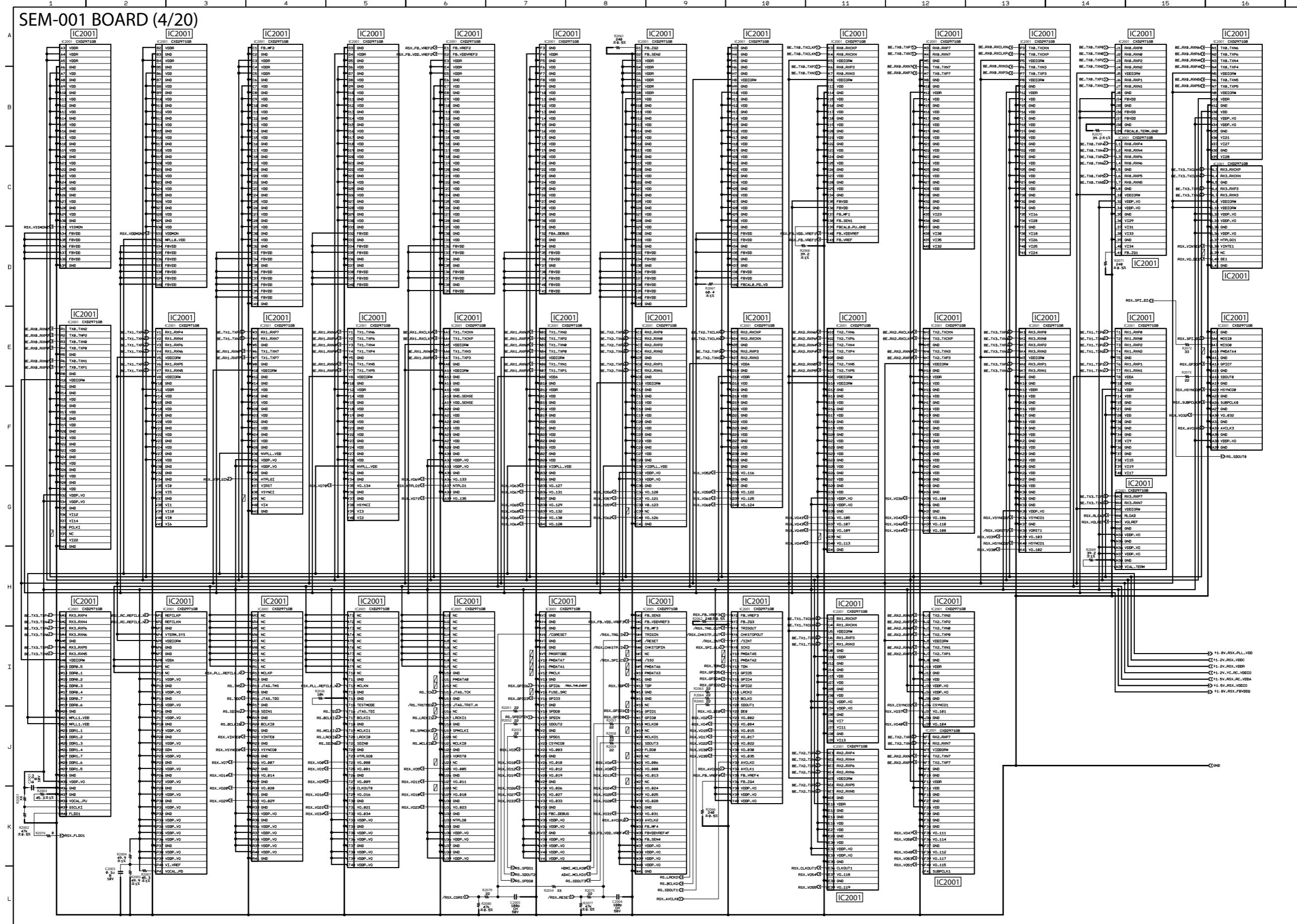
1-5. SEM-001 BOARD (2/20)



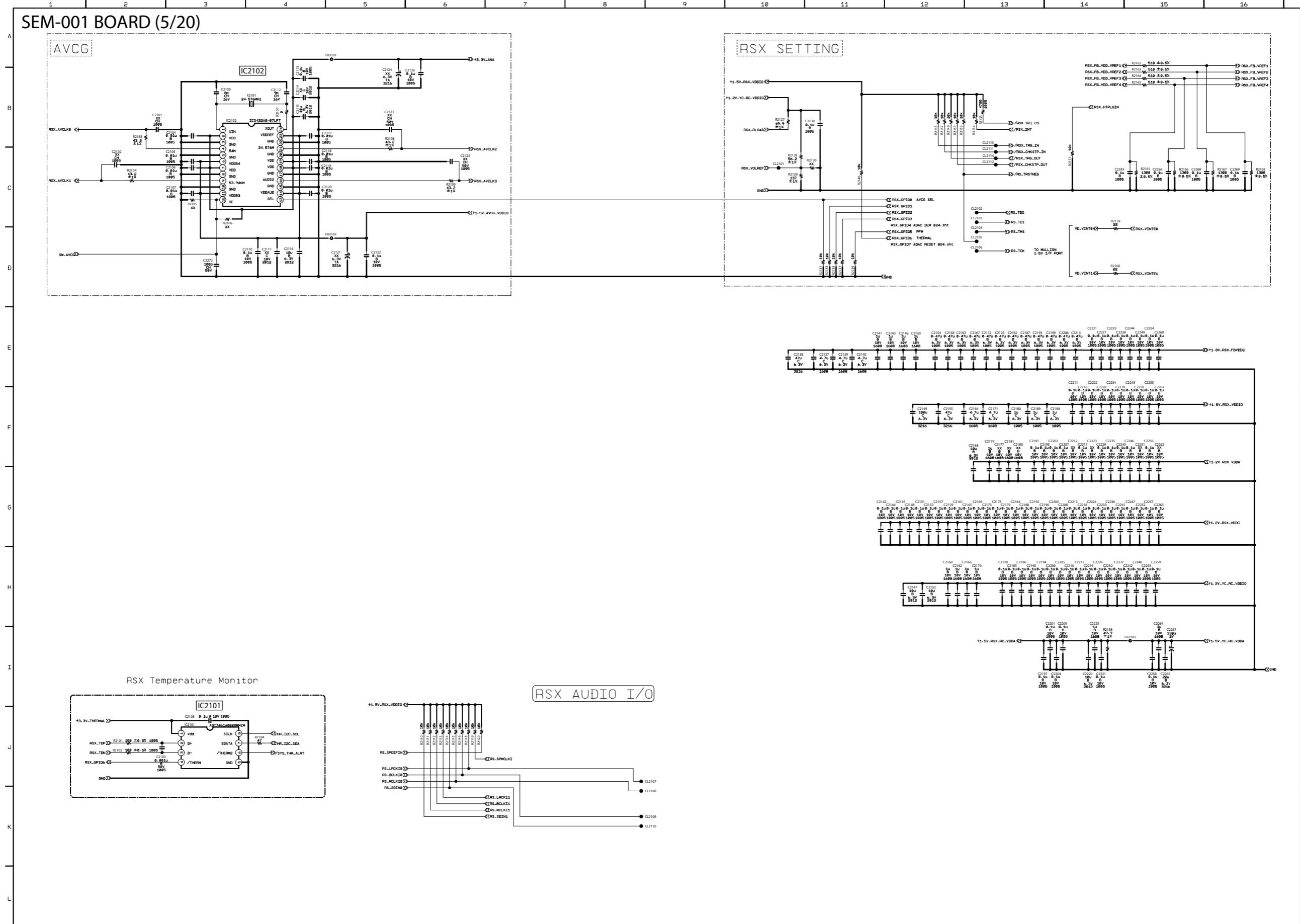
1-6. SEM-001 BOARD (3/20)



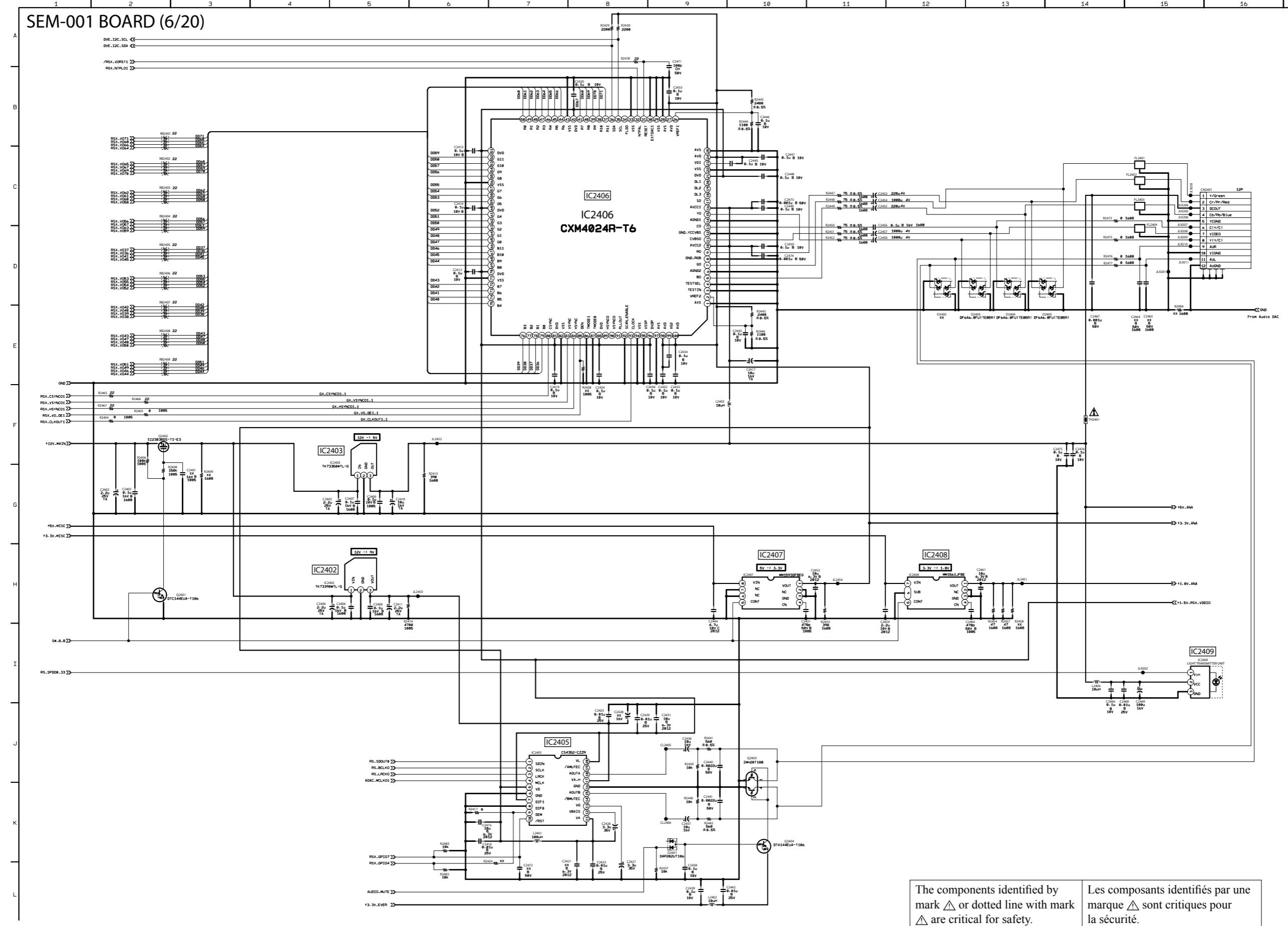
1-7. SEM-001 BOARD (4/20)



1-8. SEM-001 BOARD (5/20)



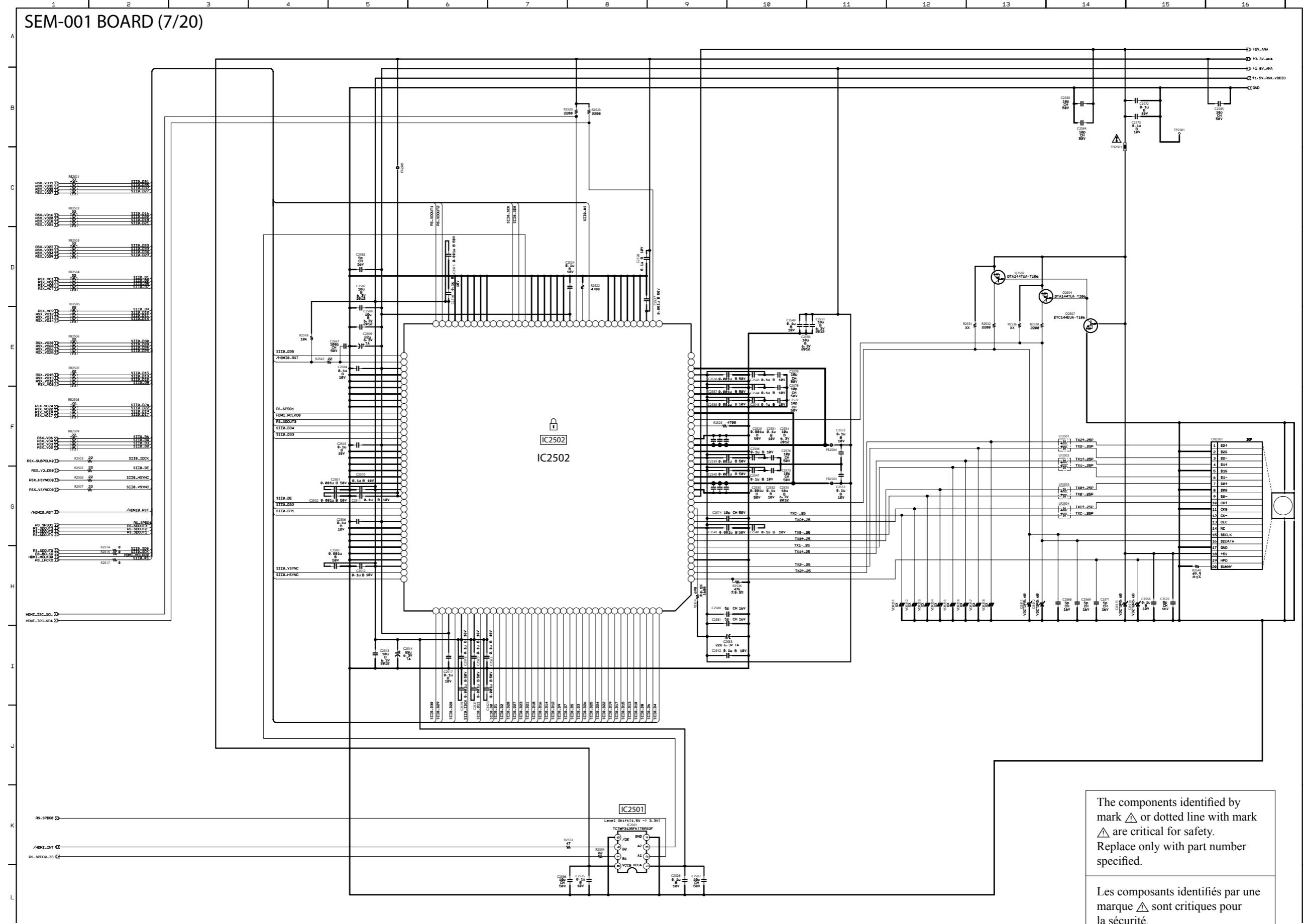
1-9. SEM-001 BOARD (6/20)



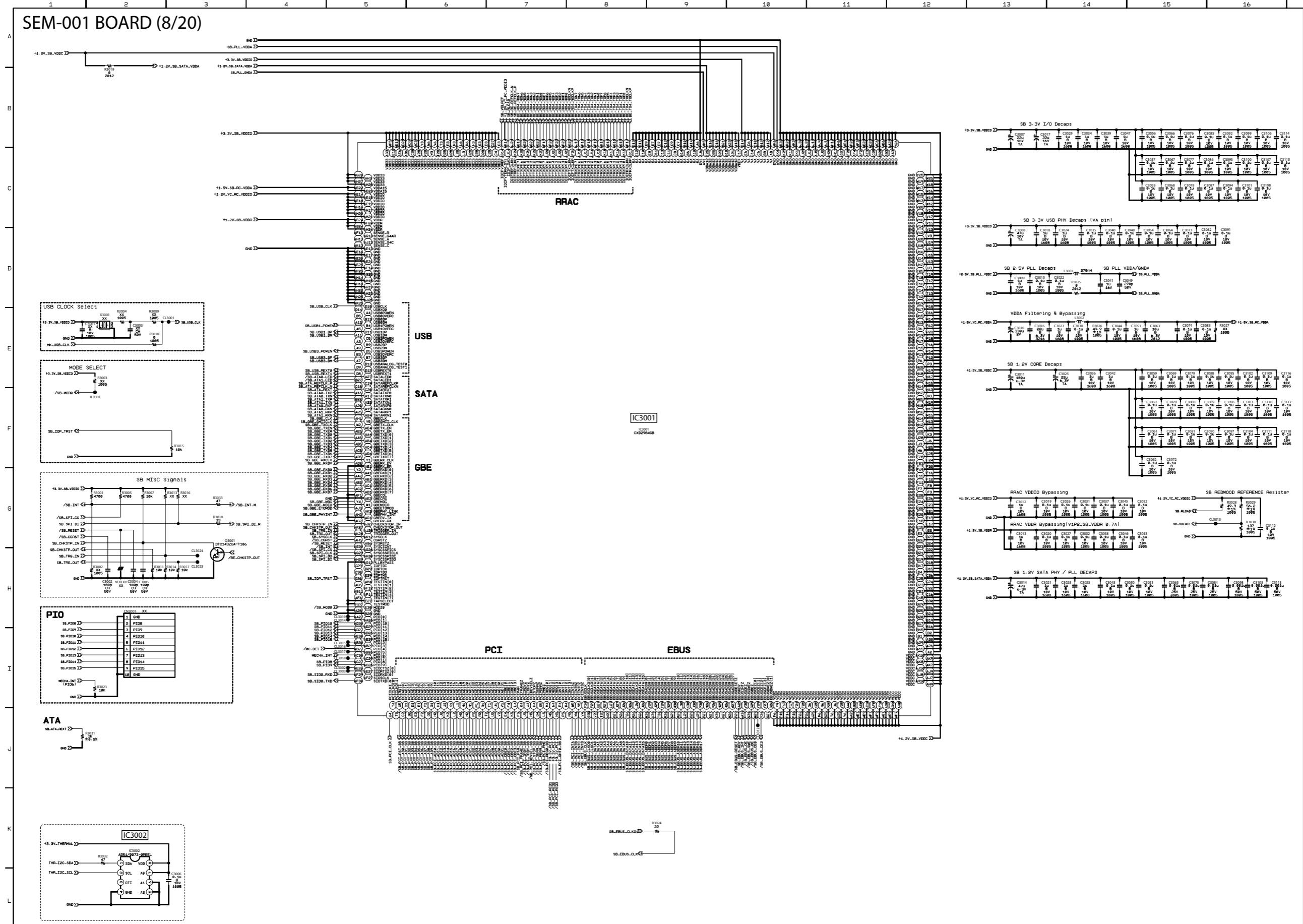
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Les remplacer que par une pièce portant le numéro spécifié.

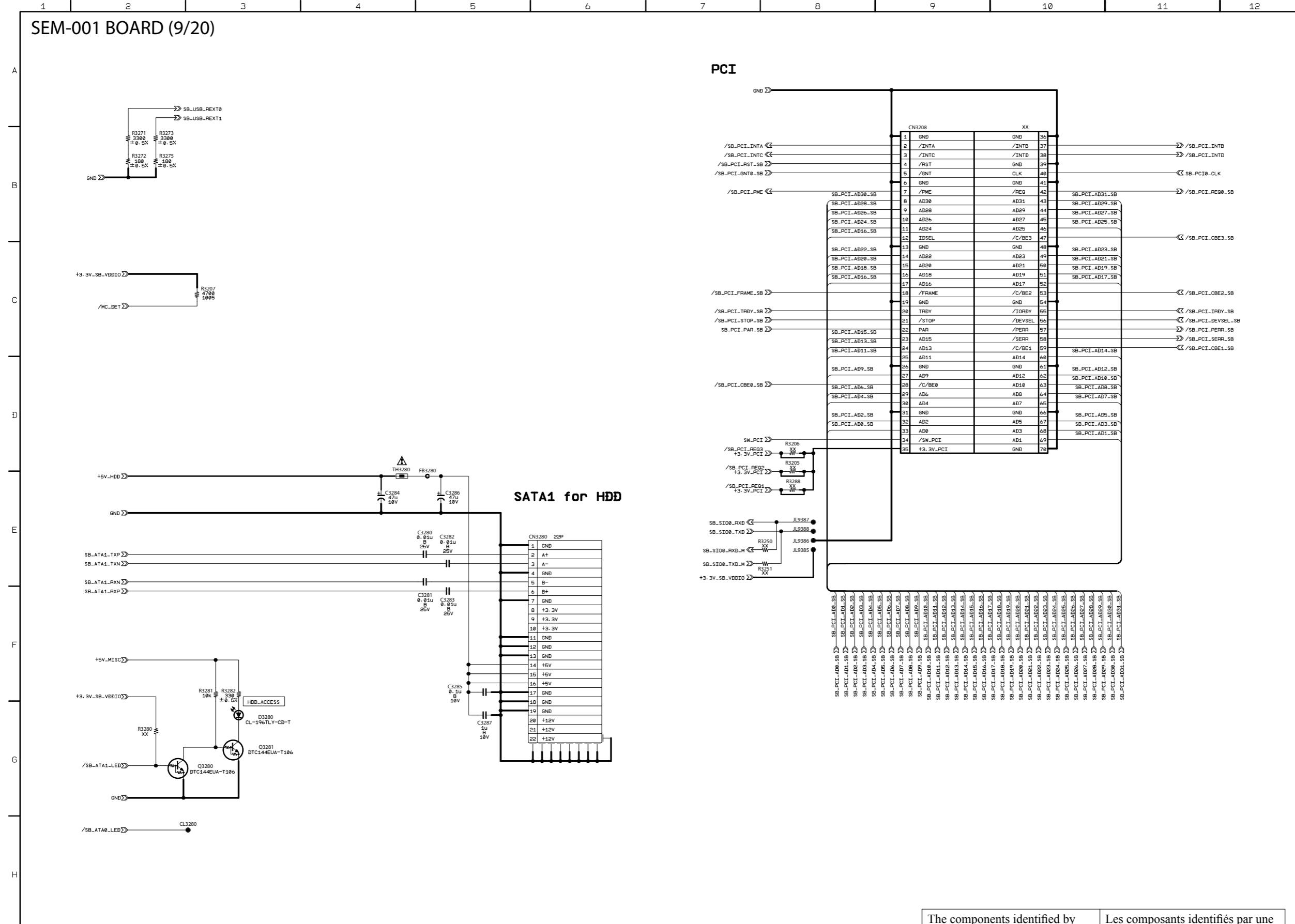
1-10. SEM-001 BOARD (7/20)



1-11. SEM-001 BOARD (8/20)



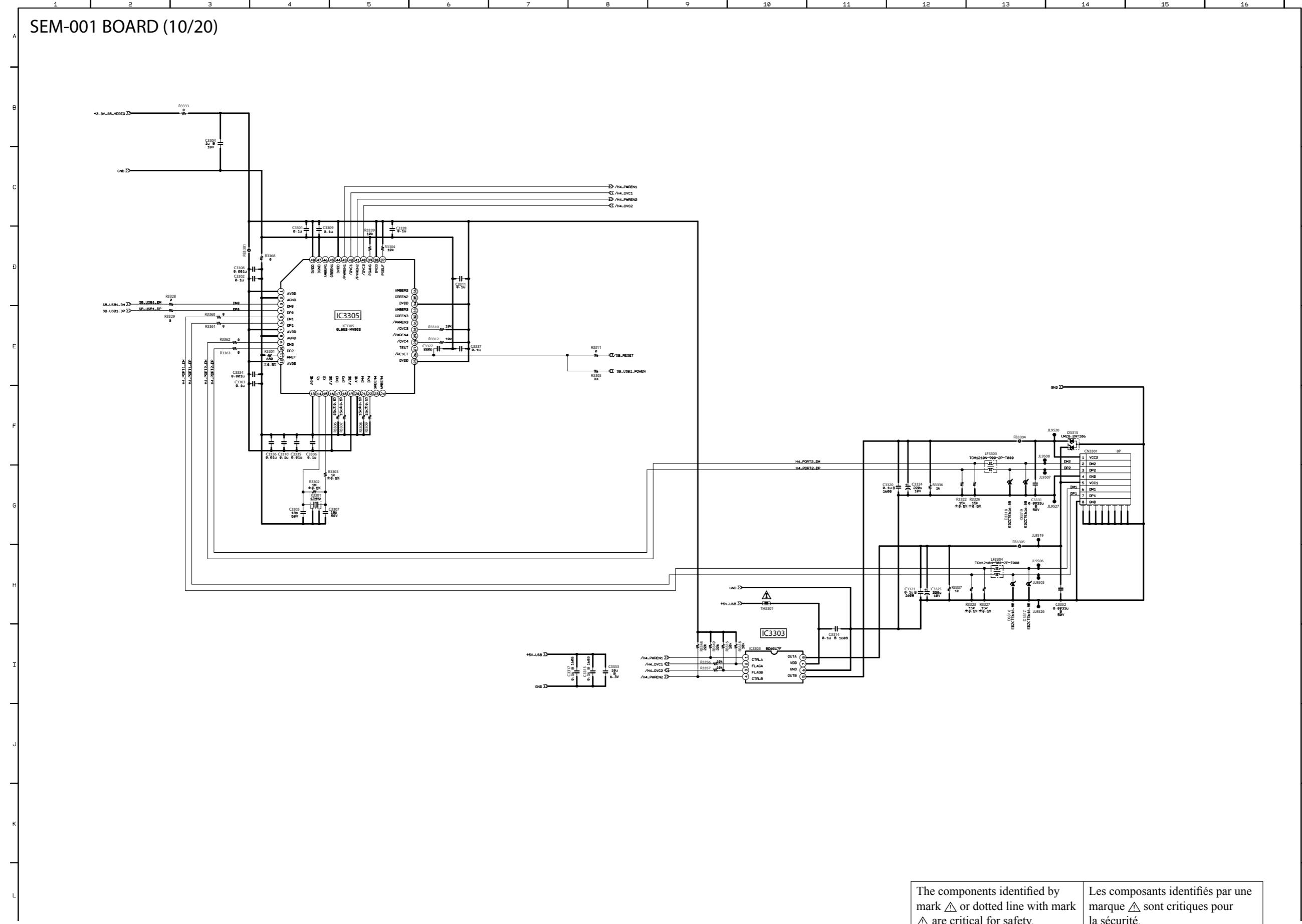
1-12. SEM-001 BOARD (9/20)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

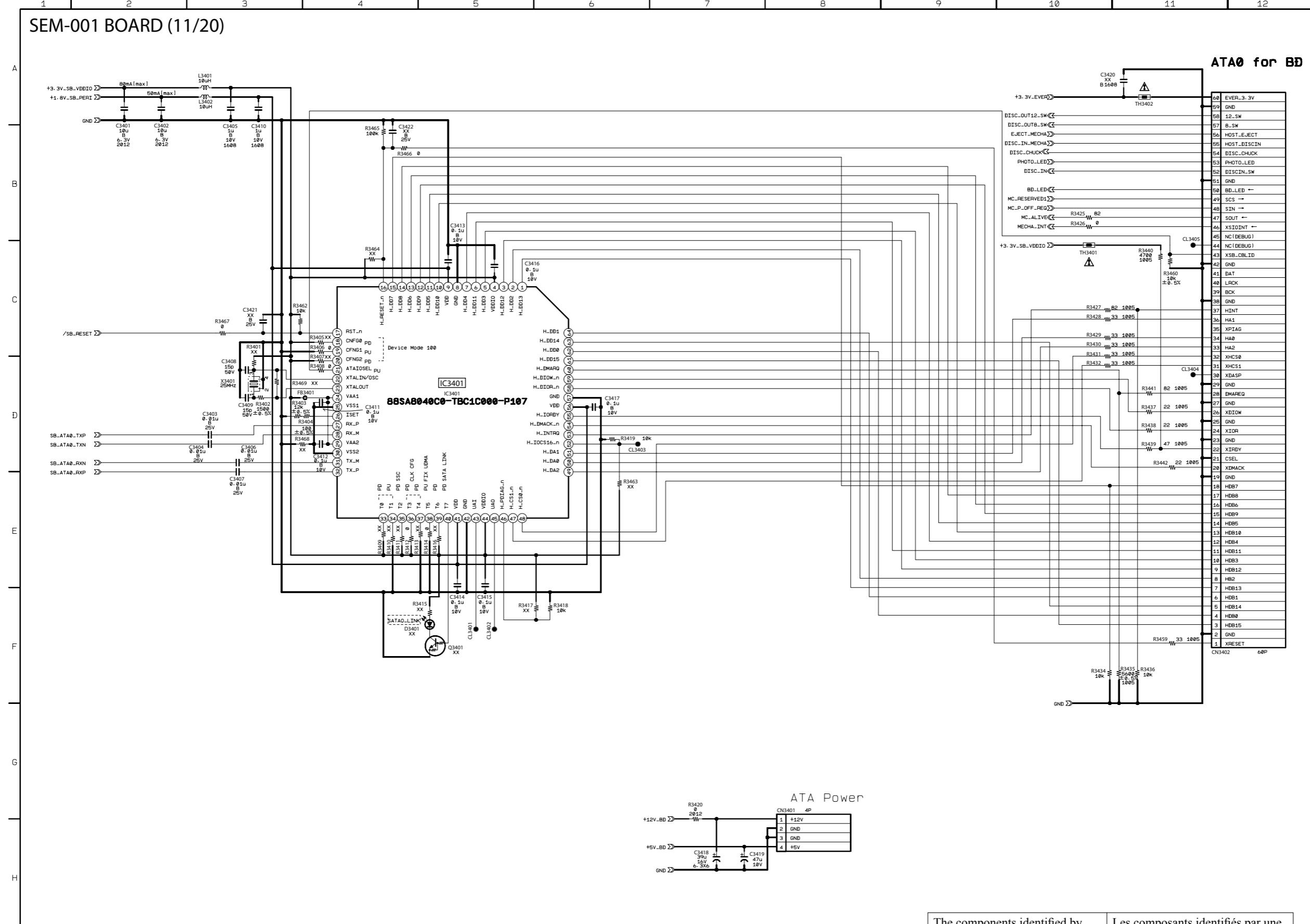
1-13. SEM-001 BOARD (10/20)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

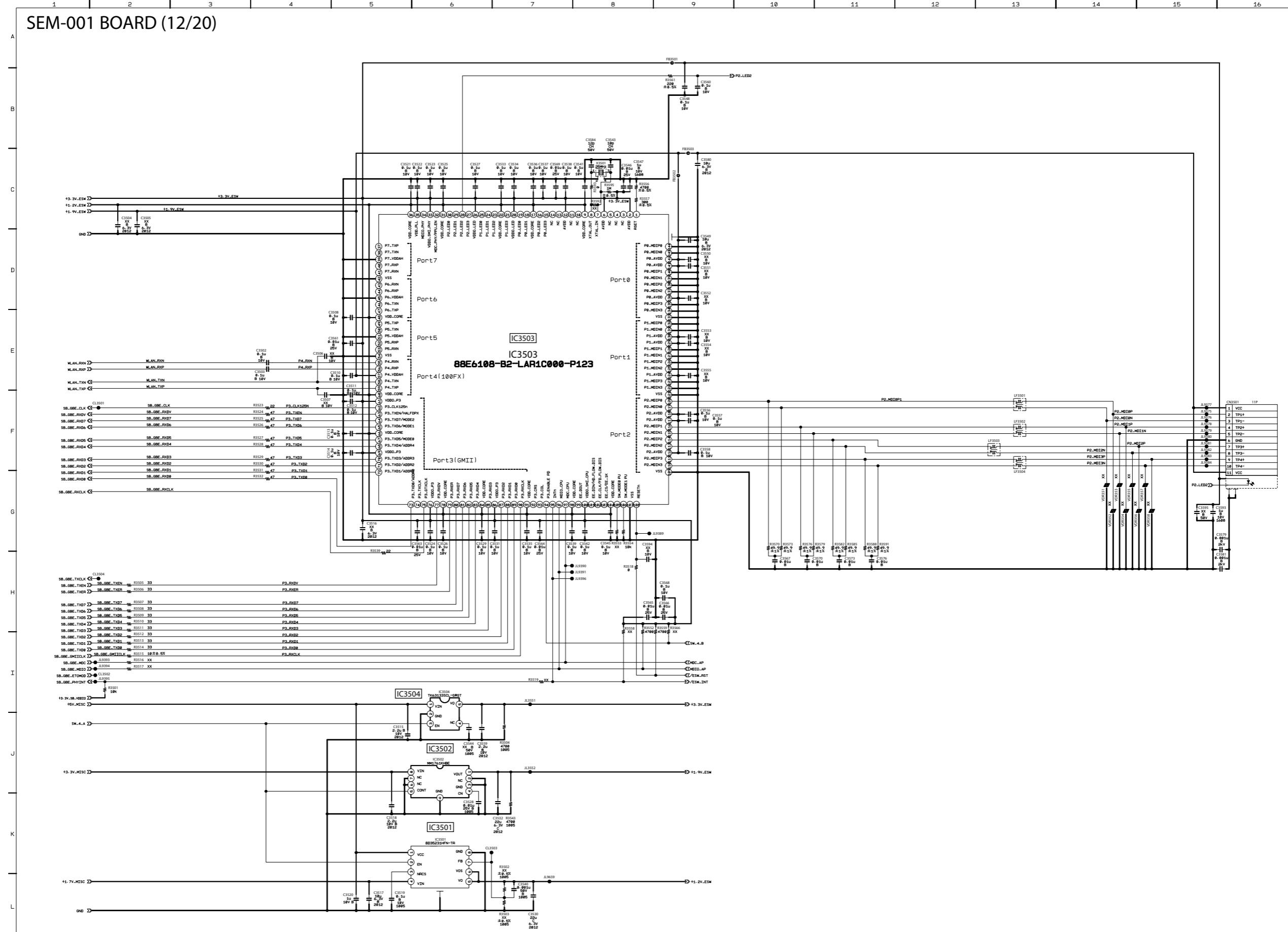
1-14. SEM-001 BOARD (11/20)



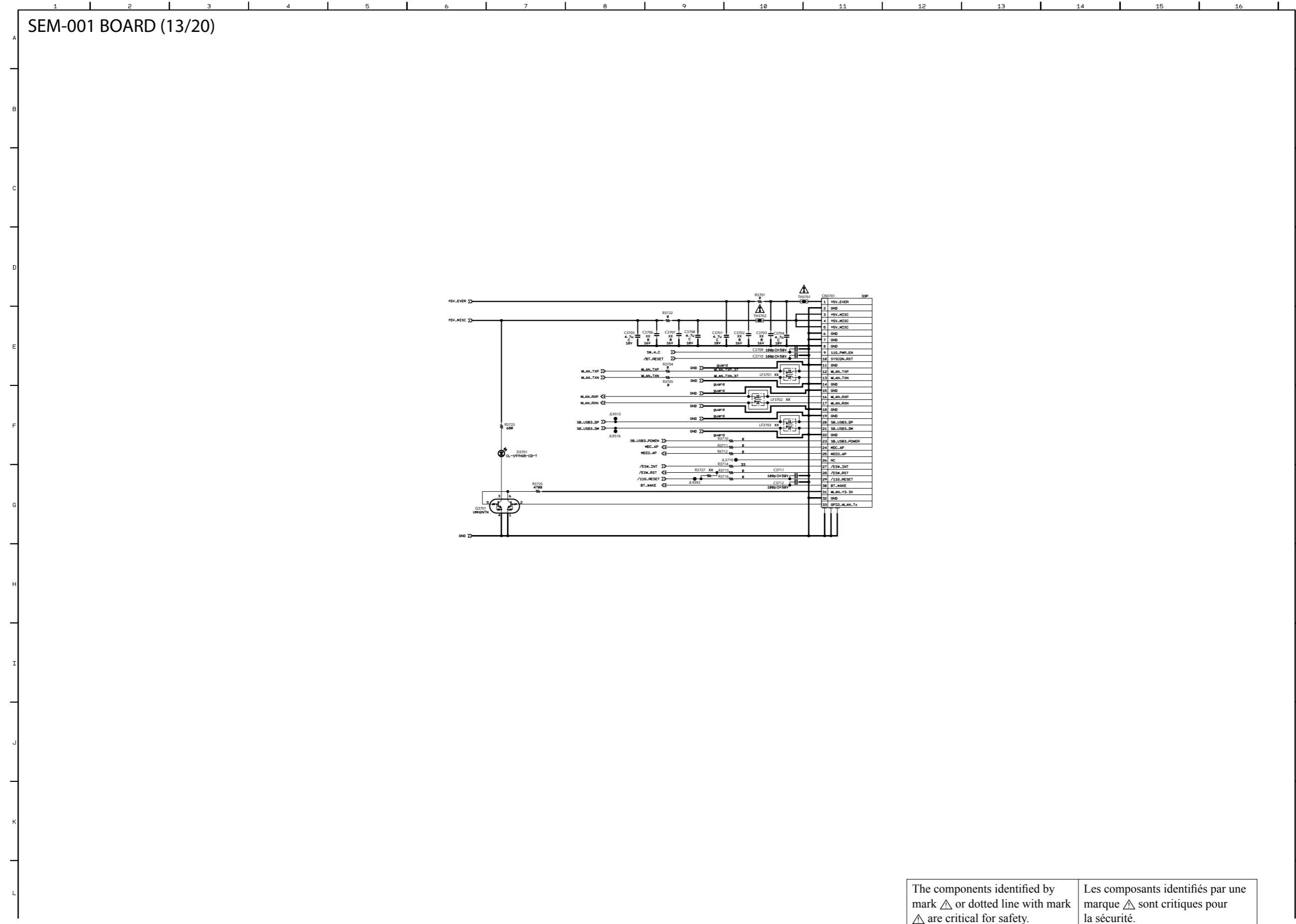
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

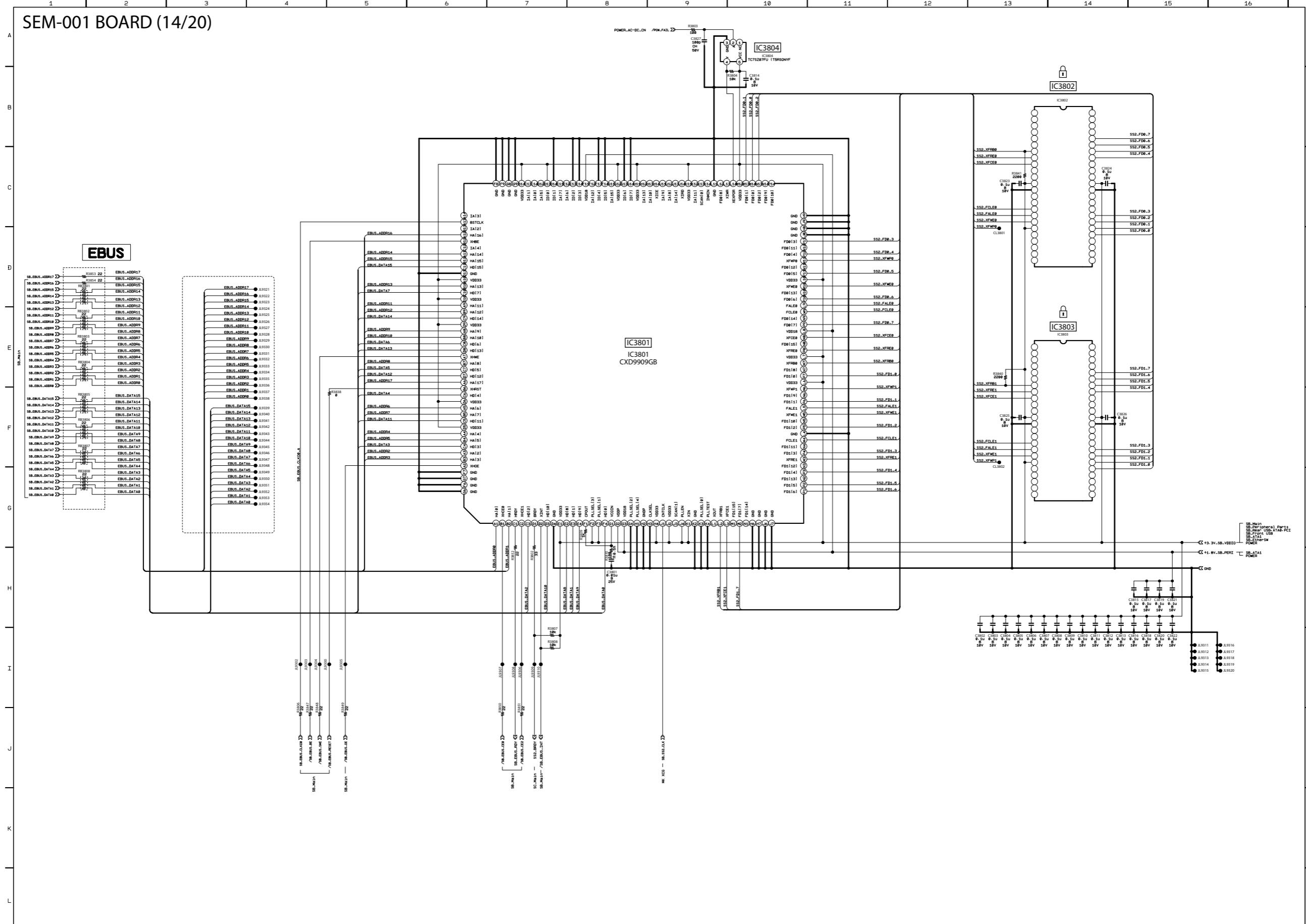
1-15. SEM-001 BOARD (12/20)



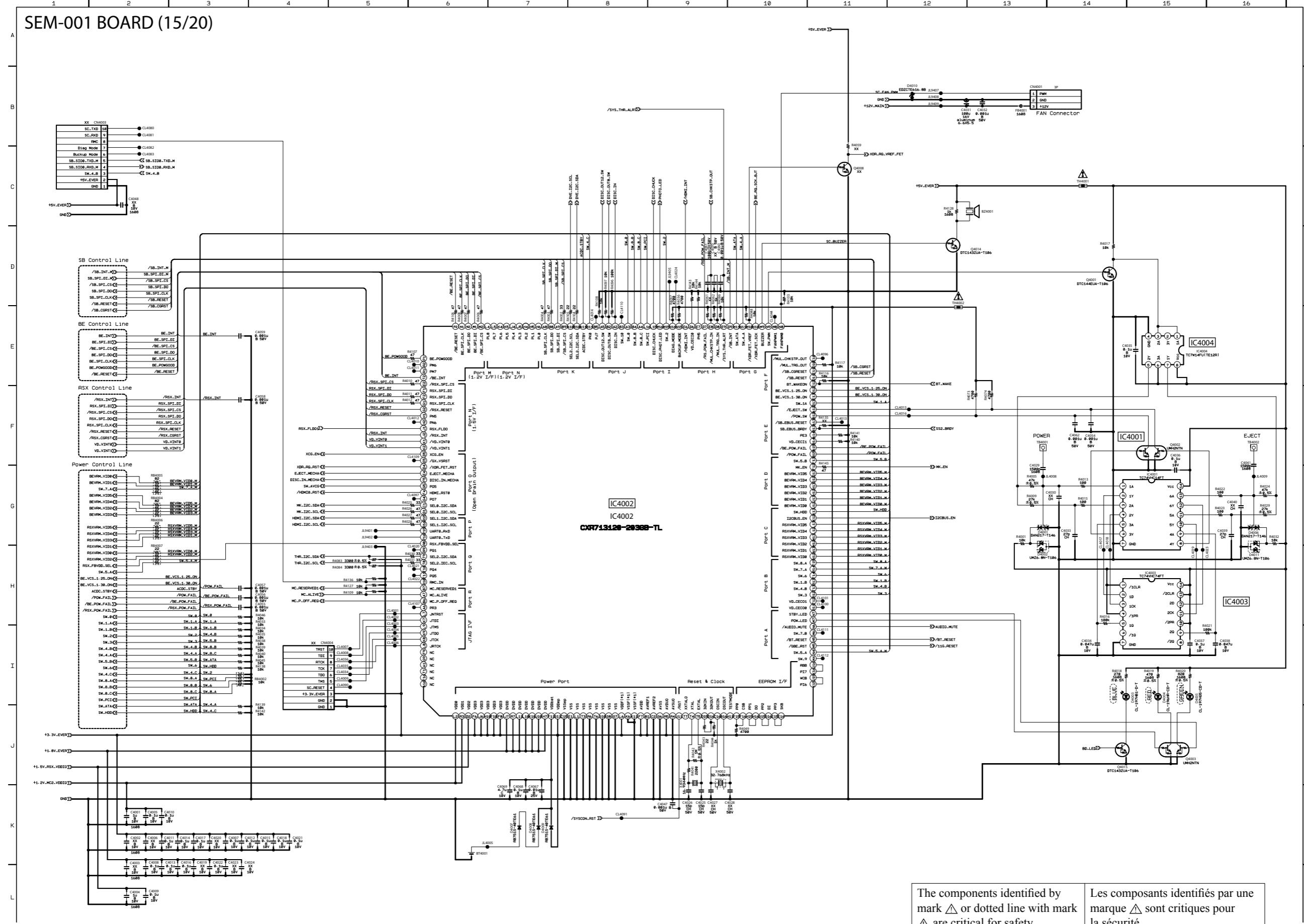
1-16. SEM-001 BOARD (13/20)



1-17. SEM-001 BOARD (14/20)



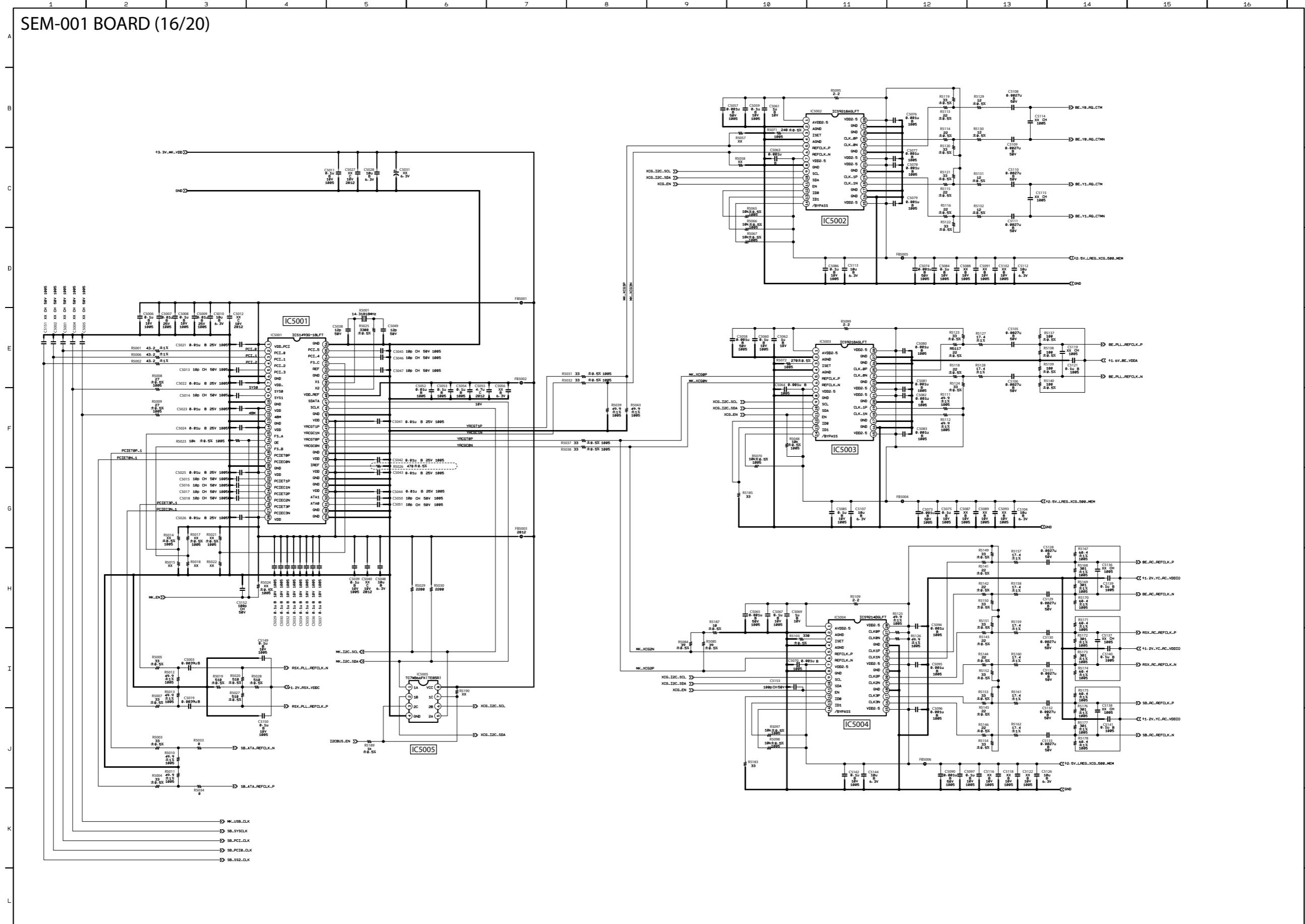
1-18. SEM-001 BOARD (15/20)



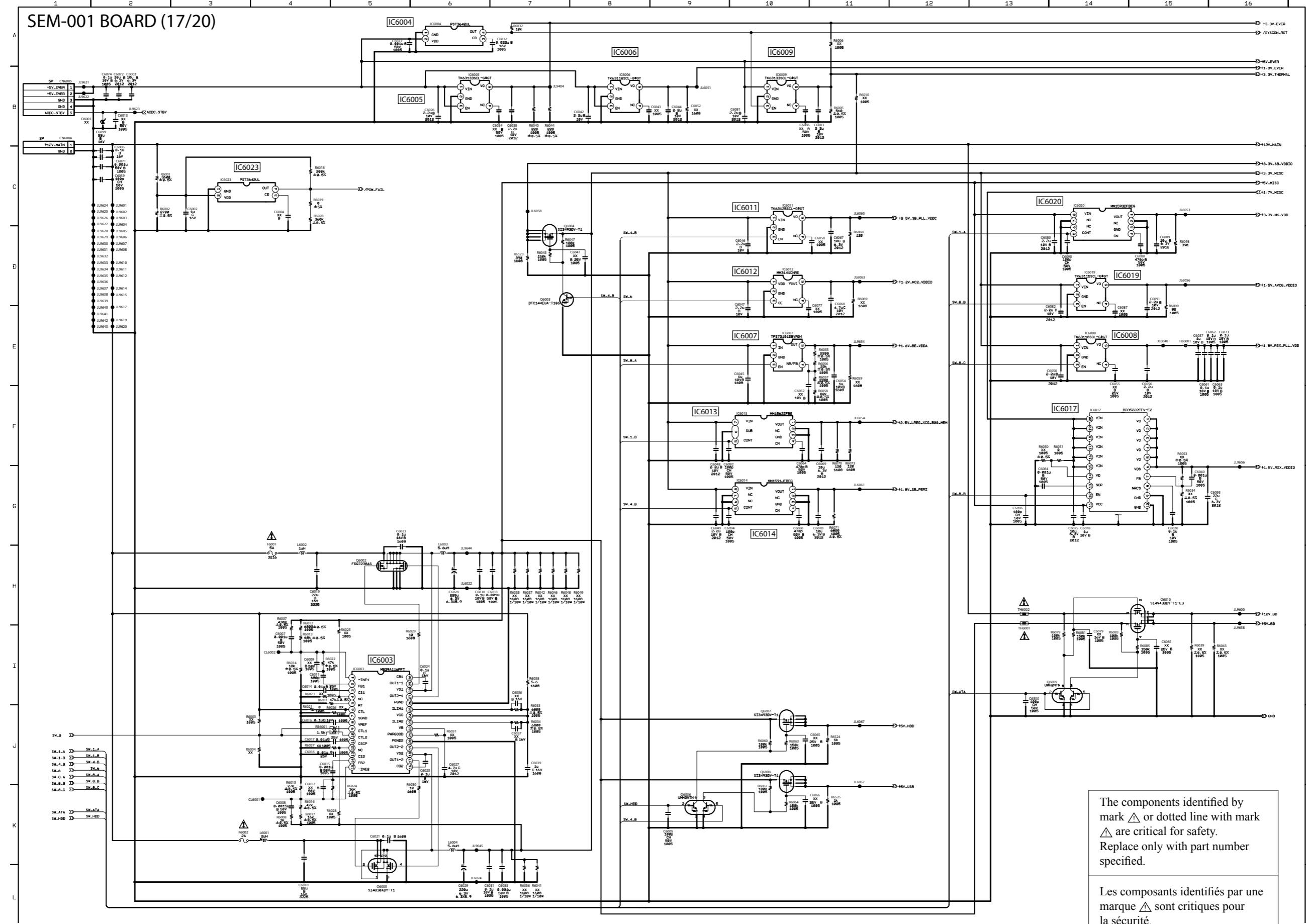
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une
marque \triangle sont critiques pour
la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

1-19. SEM-001 BOARD (16/20)



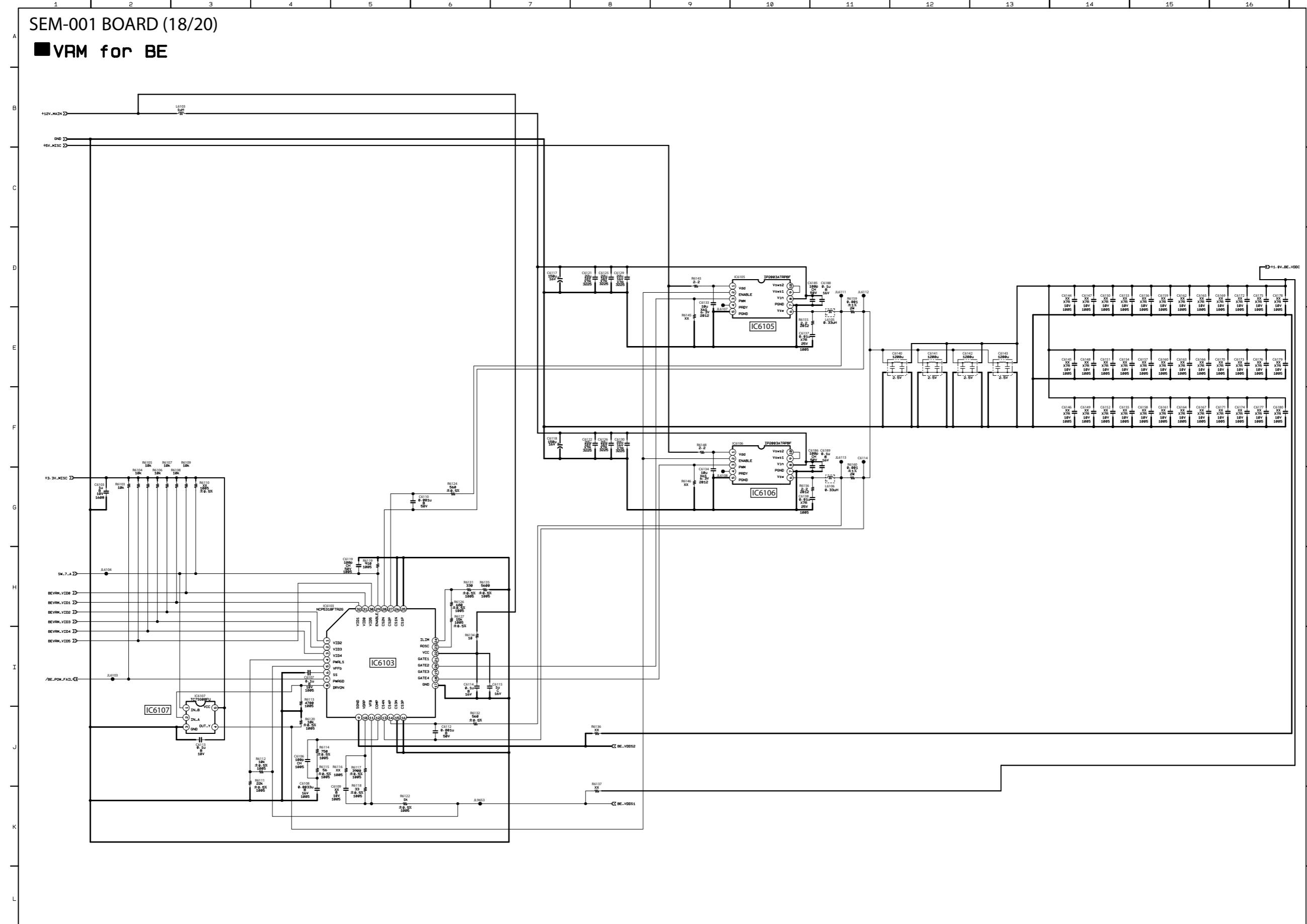
1-20. SEM-001 BOARD (17/20)



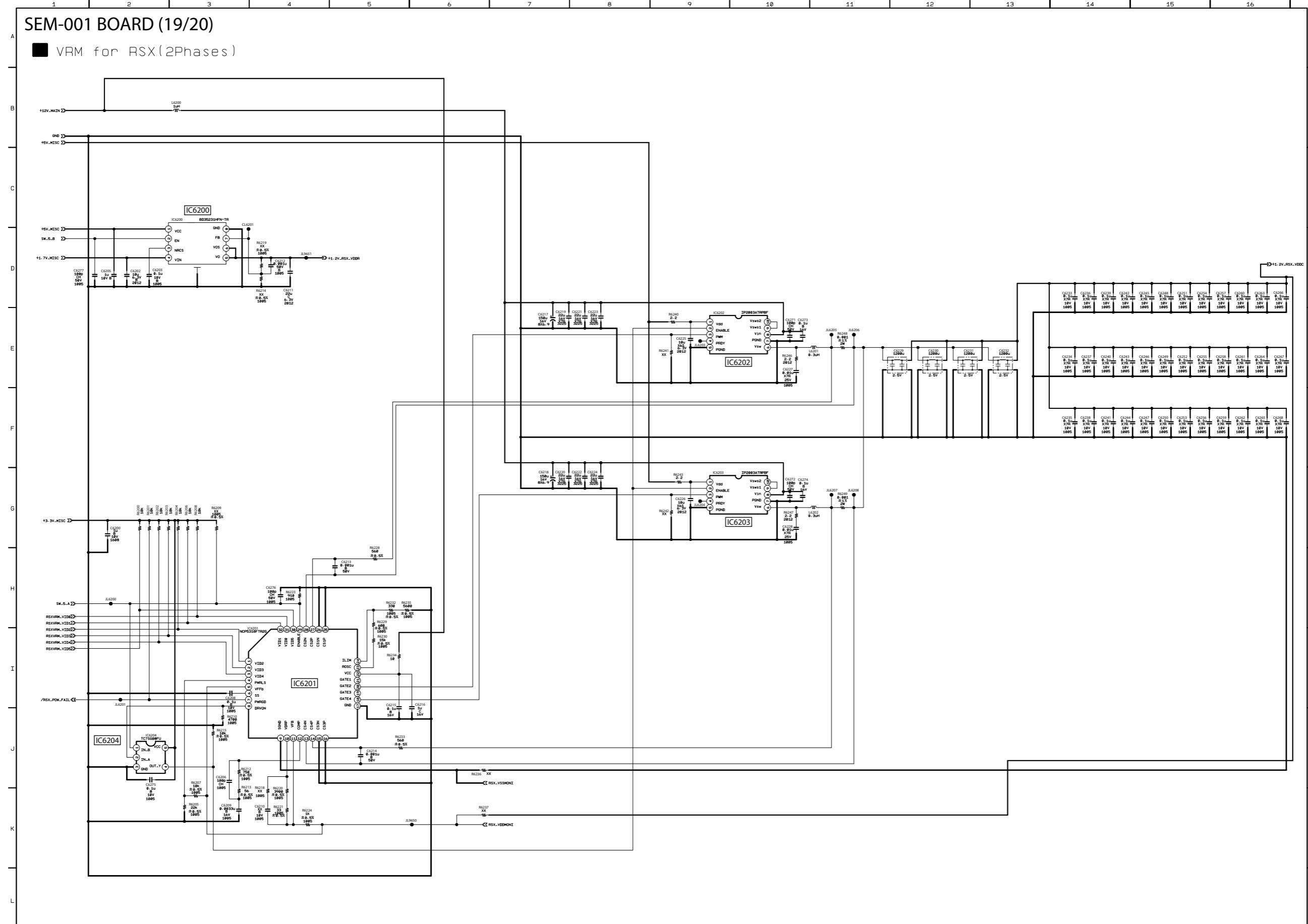
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

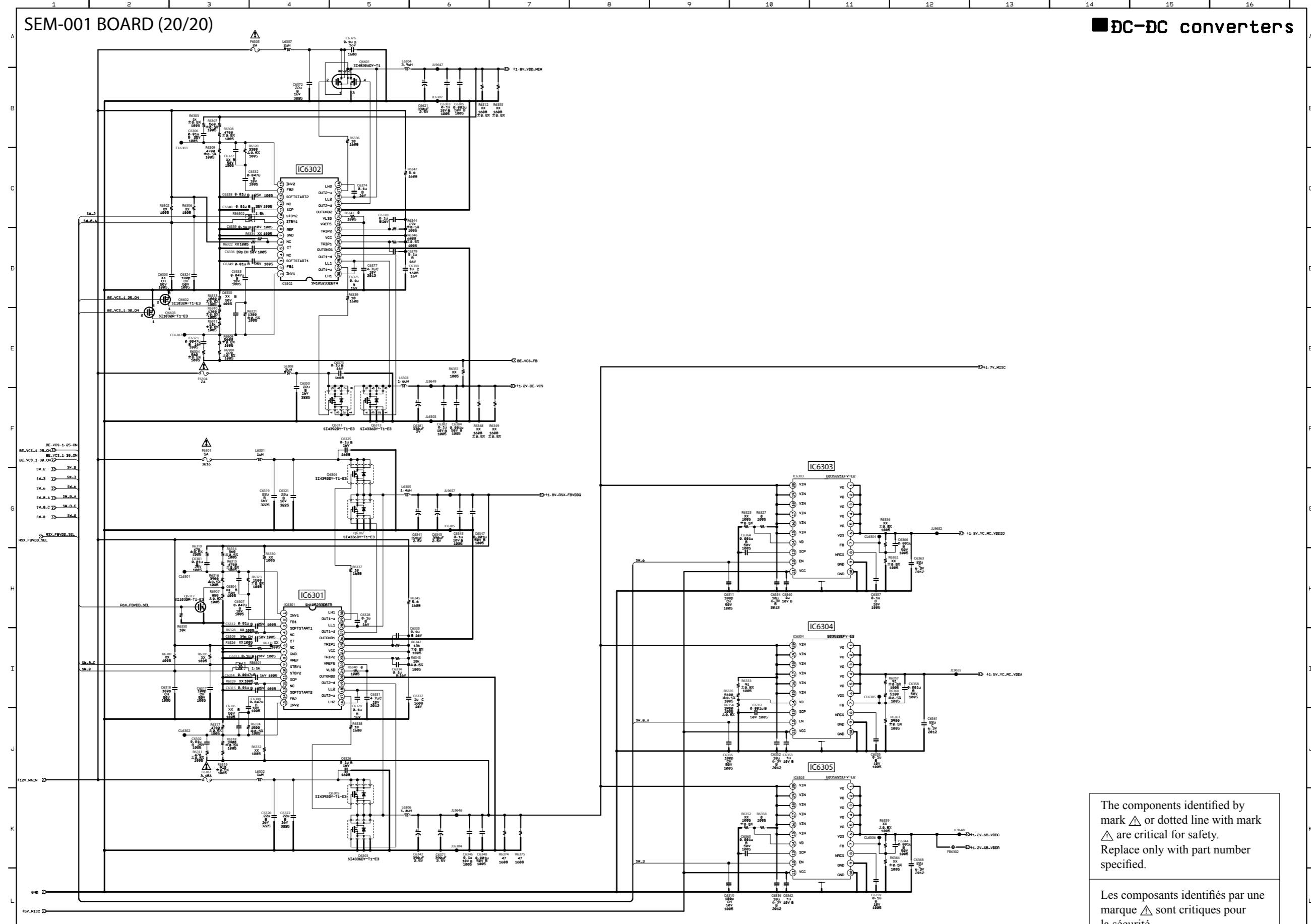
1-21. SEM-001 BOARD (18/20)



1-22. SEM-001 BOARD (19/20)



1-23. SEM-001 BOARD (20/20)



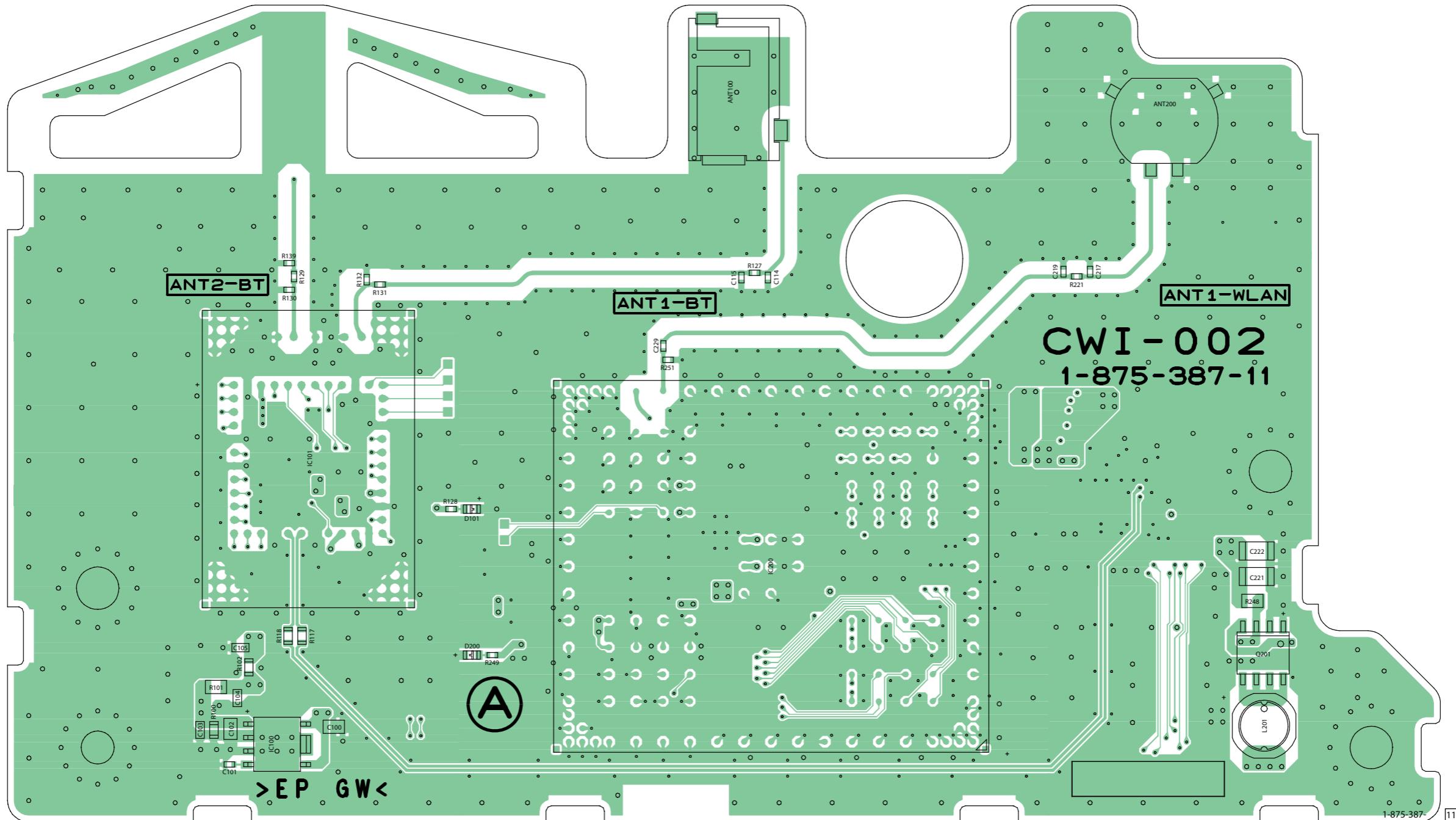
SECTION 2

PRINTED WIRING BOARDS

2-1. CWI-002 BOARD (SIDE A)

A horizontal number line starting at 13 and ending at 1. There are 12 tick marks, each labeled with an integer from 13 down to 1. The labels are: 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1.

CWI-002 BOARD (SIDE A)



Note on Printed Wiring Boards:

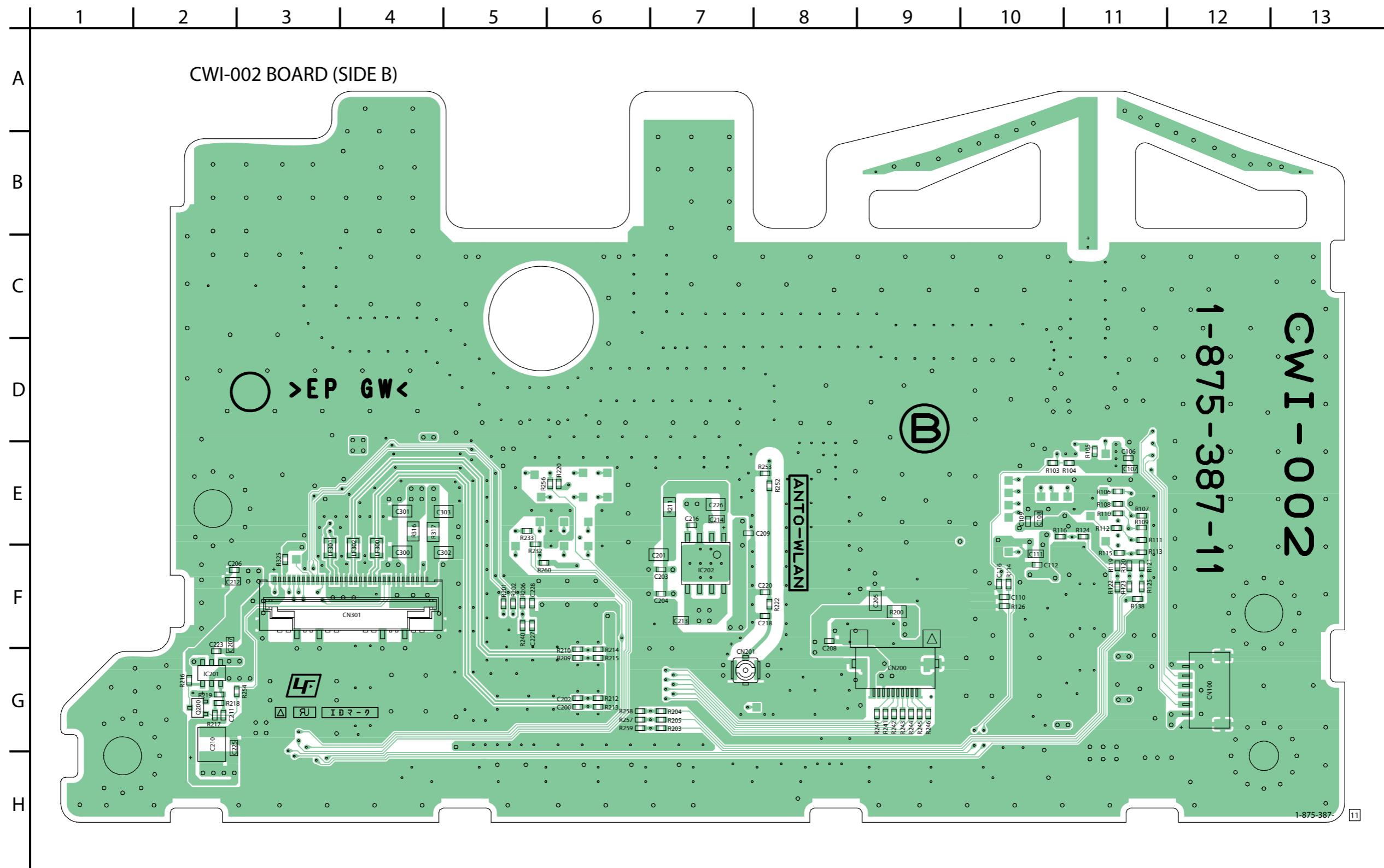
-  : Pattern from the side which enables seeing.
(The other layer's patterns are not indicated.)

Caution

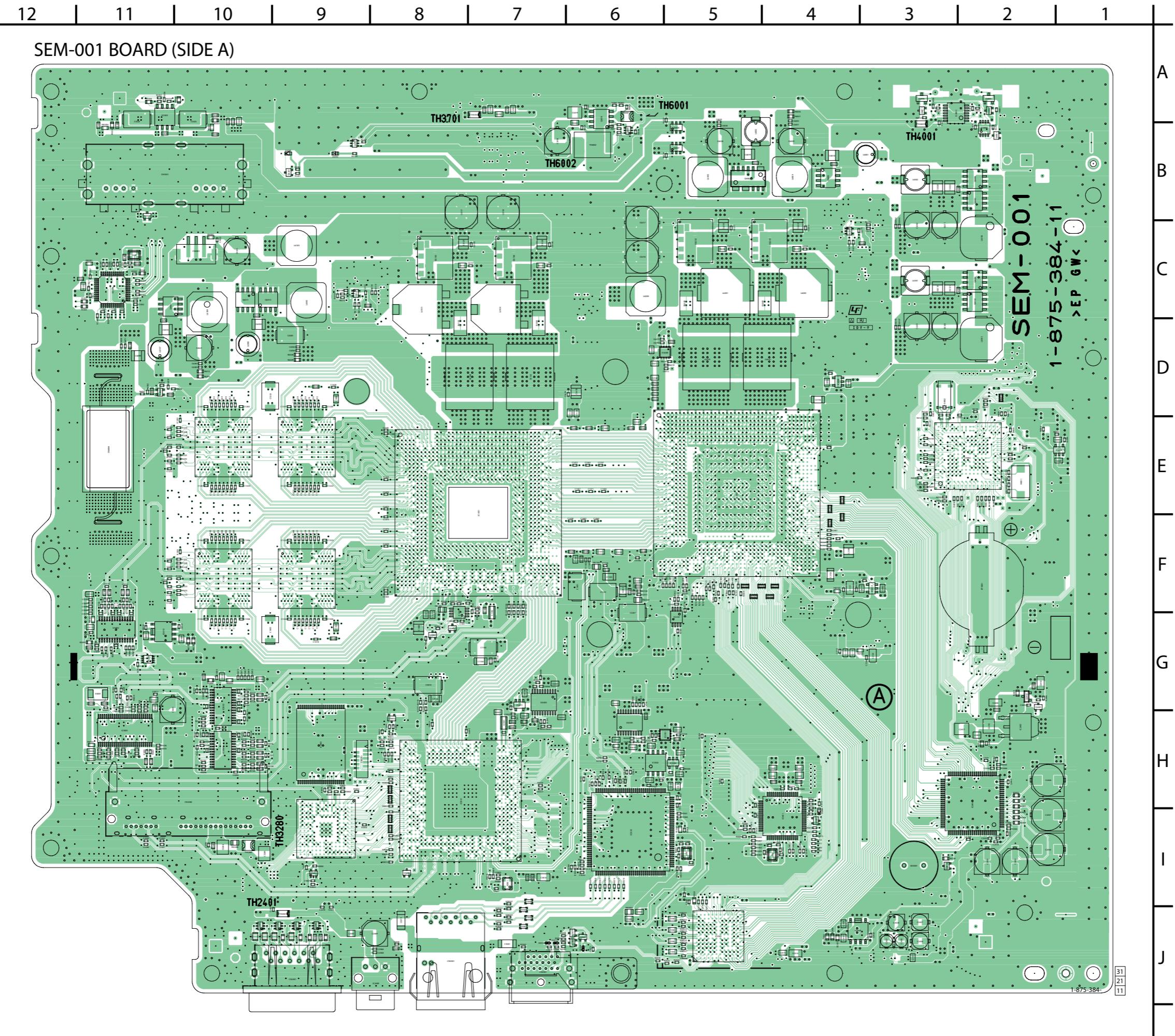
Pattern face side: Parts on the pattern face side seen (Side B) from the pattern face are indicated.

(Side B) from the pattern face are indicated.
Parts face side: Parts on the parts face side seen
(Side A) from the parts face are indicated.

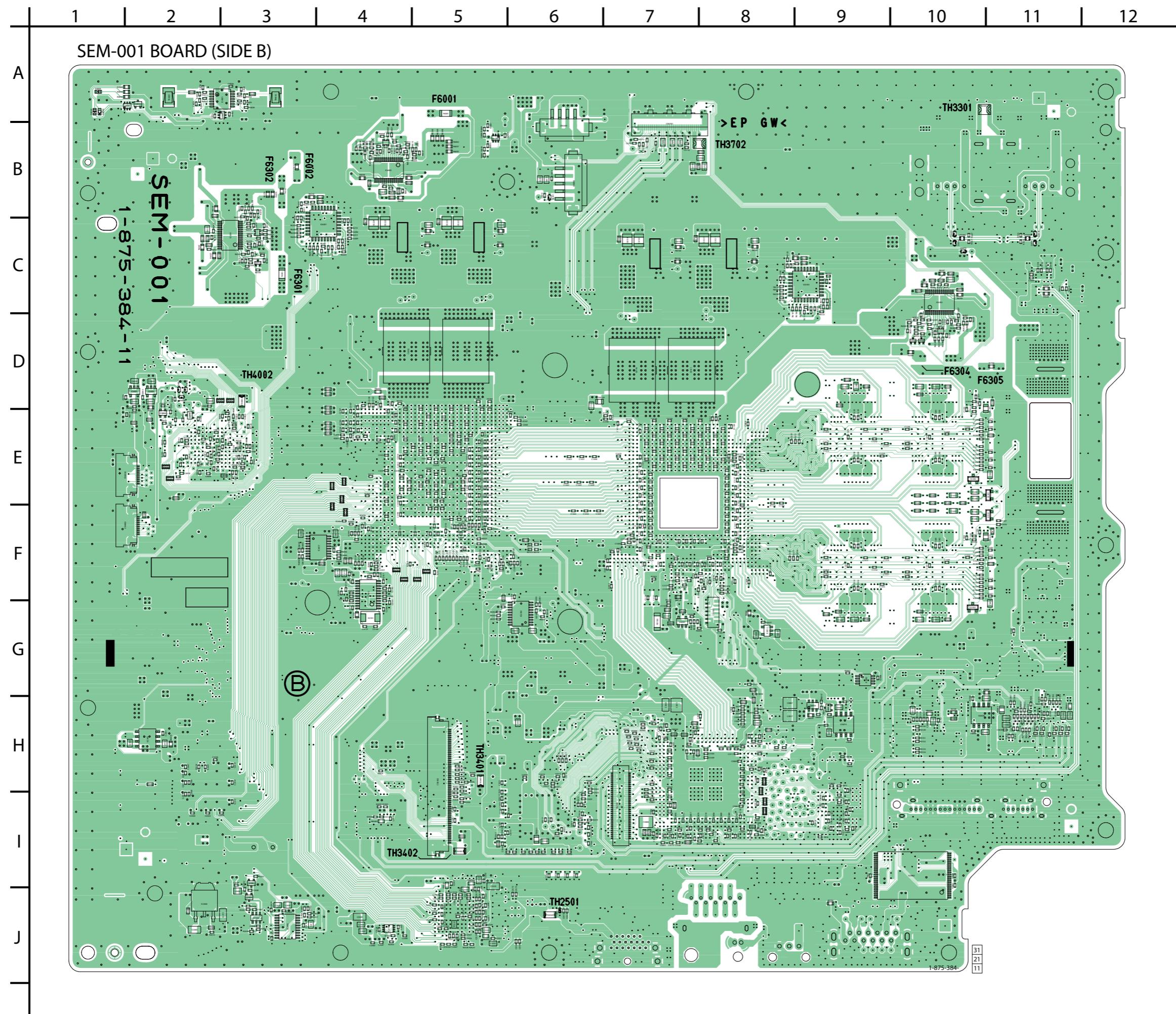
2-2. CWI-002 BOARD (SIDE B)



2-3. SEM-001 BOARD (SIDE A)



2-4. SEM-001 BOARD (SIDE B)



SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark	
U	R3308		METAL CHIP	15K 0.5%	1/16W	U	R3467		SHORT CHIP 0		U	R3806		RES-CHIP 22	5% 1/16W	U	R4044		RES-CHIP 1K	5% 1/16W
U	R3309		METAL CHIP	15K 0.5%	1/16W	U	R3501		RES-CHIP 10K	5% 1/16W	U	R3807		RES-CHIP 10K	5% 1/16W	U	R4045		RES-CHIP 10K	5% 1/16W
U	R3310		RES-CHIP	10K 5%	1/16W	U	R3504		RES-CHIP 4.7K	5% 1/16W	U	R3808		RES-CHIP 10K	5% 1/16W	U	R4046		RES-CHIP 10K	5% 1/16W
U	R3311		SHORT CHIP	0		U	R3505		RES-CHIP 33	5% 1/16W	U	R3809		RES-CHIP 1K	5% 1/16W	U	R4048		RES-CHIP 10K	5% 1/16W
U	R3312		RES-CHIP	10K 5%	1/16W	U	R3506		RES-CHIP 33	5% 1/16W	U	R3810		METAL CHIP 180	0.5% 1/16W	U	R4049		RES-CHIP 4.7K	5% 1/16W
U	R3316		RES-CHIP	10K 5%	1/16W	U	R3507		RES-CHIP 33	5% 1/16W	U	R3838		SHORT CHIP 0		U	R4062		RES-CHIP 1K	5% 1/16W
U	R3318		RES-CHIP	10K 5%	1/16W	U	R3508		RES-CHIP 33	5% 1/16W	U	R3840		RES-CHIP 2.2K	5% 1/16W	U	R4073		RES-CHIP 4.7K	5% 1/16W
U	R3322		METAL CHIP	15K 0.5%	1/16W	U	R3509		RES-CHIP 33	5% 1/16W	U	R3841		RES-CHIP 2.2K	5% 1/16W	U	R4074		RES-CHIP 4.7K	5% 1/16W
U	R3323		METAL CHIP	15K 0.5%	1/16W	U	R3510		RES-CHIP 33	5% 1/16W	U	R3847		RES-CHIP 22	5% 1/16W	U	R4083		METAL CHIP 3.3K	0.5% 1/16W
U	R3326		METAL CHIP	15K 0.5%	1/16W	U	R3511		RES-CHIP 33	5% 1/16W	U	R3848		RES-CHIP 22	5% 1/16W	U	R4084		METAL CHIP 3.3K	0.5% 1/16W
U	R3327		METAL CHIP	15K 0.5%	1/16W	U	R3512		RES-CHIP 33	5% 1/16W	U	R3849		RES-CHIP 22	5% 1/16W	U	R4086		RES-CHIP 10K	5% 1/16W
U	R3328		SHORT CHIP	0		U	R3513		RES-CHIP 33	5% 1/16W	U	R3850		RES-CHIP 22	5% 1/16W	U	R4096		RES-CHIP 100K	5% 1/16W
U	R3329		SHORT CHIP	0		U	R3514		RES-CHIP 33	5% 1/16W	U	R3851		RES-CHIP 22	5% 1/16W	U	R4097		RES-CHIP 10K	5% 1/16W
U	R3333		SHORT CHIP	0		U	R3515		METAL CHIP 10	0.5% 1/16W	U	R3852		RES-CHIP 22	5% 1/16W	U	R4103		RES-CHIP 10K	5% 1/16W
U	R3336		METAL CHIP	1K 5%	1/10W	U	R3518		SHORT CHIP 0		U	R3853		RES-CHIP 22	5% 1/16W	U	R4104		RES-CHIP 22	5% 1/16W
U	R3337		METAL CHIP	1K 5%	1/10W	U	R3523		RES-CHIP 22	5% 1/16W	U	R3854		RES-CHIP 22	5% 1/16W	U	R4105		RES-CHIP 22	5% 1/16W
U	R3339		RES-CHIP	10K 5%	1/16W	U	R3524		RES-CHIP 47	5% 1/16W	U	R4001		RES-CHIP 10K	5% 1/16W	U	R4106		RES-CHIP 47	5% 1/16W
U	R3348		METAL CHIP	22K 5%	1/10W	U	R3525		RES-CHIP 47	5% 1/16W	U	R4002		RES-CHIP 33	5% 1/16W	U	R4107		RES-CHIP 47	5% 1/16W
U	R3349		METAL CHIP	22K 5%	1/10W	U	R3526		RES-CHIP 47	5% 1/16W	U	R4003		RES-CHIP 47	5% 1/16W	U	R4108		RES-CHIP 10K	5% 1/16W
U	R3356		RES-CHIP	10K 5%	1/16W	U	R3527		RES-CHIP 47	5% 1/16W	U	R4004		RES-CHIP 47	5% 1/16W	U	R4109		RES-CHIP 10K	5% 1/16W
U	R3357		RES-CHIP	10K 5%	1/16W	U	R3528		RES-CHIP 47	5% 1/16W	U	R4005		METAL CHIP 47K	0.5% 1/16W	U	R4116		RES-CHIP 10K	5% 1/16W
U	R3360		SHORT CHIP	0		U	R3529		RES-CHIP 47	5% 1/16W	U	R4006		RES-CHIP 47	5% 1/16W	U	R4117		RES-CHIP 10K	5% 1/16W
U	R3361		SHORT CHIP	0		U	R3530		RES-CHIP 47	5% 1/16W	U	R4007		RES-CHIP 47	5% 1/16W	U	R4127		RES-CHIP 10K	5% 1/16W
U	R3362		SHORT CHIP	0		U	R3531		RES-CHIP 47	5% 1/16W	U	R4008		RES-CHIP 47	5% 1/16W	U	R4128		METAL CHIP 1K	5% 1/10W
U	R3363		SHORT CHIP	0		U	R3532		RES-CHIP 47	5% 1/16W	U	R4009		METAL CHIP 27K	0.5% 1/16W	U	R4136		RES-CHIP 10K	5% 1/16W
U	R3368		SHORT CHIP	0		U	R3539		RES-CHIP 22	5% 1/16W	U	R4010		RES-CHIP 47	5% 1/16W	U	R4138		RES-CHIP 10K	5% 1/16W
U	R3402		METAL CHIP	1.5K 0.5%	1/16W	U	R3543		RES-CHIP 4.7K	5% 1/16W	U	R4011		RES-CHIP 47	5% 1/16W	U	R4139		RES-CHIP 10K	5% 1/16W
U	R3403		METAL CHIP	12K 0.5%	1/16W	U	R3552		RES-CHIP 4.7K	5% 1/16W	U	R4012		RES-CHIP 47	5% 1/16W	U	R4140		RES-CHIP 10K	5% 1/16W
U	R3404		METAL CHIP	100 0.5%	1/16W	U	R3554		RES-CHIP 10K	5% 1/16W	U	R4013		RES-CHIP 100	5% 1/16W	U	R4141		RES-CHIP 10K	5% 1/16W
U	R3406		SHORT CHIP	0		U	R3556		METAL CHIP 4.7K	0.5% 1/16W	U	R4015		RES-CHIP 100	5% 1/16W	U	R4142		RES-CHIP 10K	5% 1/16W
U	R3408		SHORT CHIP	0		U	R3557		METAL CHIP 300	0.5% 1/16W	U	R4016		RES-CHIP 100K	5% 1/16W	U	R4143		RES-CHIP 10K	5% 1/16W
U	R3412		SHORT CHIP	0		U	R3559		RES-CHIP 4.7K	5% 1/16W	U	R4017		RES-CHIP 10K	5% 1/16W	U	R4144		RES-CHIP 10K	5% 1/16W
U	R3414		SHORT CHIP	0		U	R3561		METAL CHIP 220	0.5% 1/16W	U	R4018		METAL CHIP 270	0.5% 1/10W	U	R4145		RES-CHIP 47	5% 1/16W
U	R3418		RES-CHIP	10K 5%	1/16W	U	R3570		METAL CHIP 49.9	1% 1/16W	U	R4019		METAL CHIP 470	0.5% 1/10W	U	R5001		METAL CHIP 43.2	1% 1/16W
U	R3419		RES-CHIP	10K 5%	1/16W	U	R3573		METAL CHIP 49.9	1% 1/16W	U	R4020		METAL CHIP 820	0.5% 1/10W	U	R5002		METAL CHIP 43.2	1% 1/16W
U	R3420		SHORT CHIP	0		U	R3576		METAL CHIP 49.9	1% 1/16W	U	R4021		RES-CHIP 100K	5% 1/16W	U	R5003		METAL CHIP 33	0.5% 1/16W
U	R3425		RES-CHIP	82 5%	1/16W	U	R3579		METAL CHIP 49.9	1% 1/16W	U	R4022		RES-CHIP 100	5% 1/16W	U	R5004		METAL CHIP 33	0.5% 1/16W
U	R3426		SHORT CHIP	0		U	R3582		METAL CHIP 49.9	1% 1/16W	U	R4023		RES-CHIP 100	5% 1/16W	U	R5005		METAL CHIP 33	0.5% 1/16W
U	R3427		RES-CHIP	82 5%	1/16W	U	R3585		METAL CHIP 49.9	1% 1/16W	U	R4024		METAL CHIP 47K	0.5% 1/16W	U	R5006		METAL CHIP 43.2	1% 1/16W
U	R3428		RES-CHIP	33 5%	1/16W	U	R3588		METAL CHIP 49.9	1% 1/16W	U	R4025		RES-CHIP 33	5% 1/16W	U	R5007		METAL CHIP 33	0.5% 1/16W
U	R3429		RES-CHIP	33 5%	1/16W	U	R3591		METAL CHIP 49.9	1% 1/16W	U									

SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark	SC	Ref. No.	Part No.	Description	Remark							
U	R5034		SHORT CHIP	0	U	R5157		METAL CHIP	17.4	1%	1/16W	U	R6063		RES-CHIP	150K	5%	1/16W	U	R6228	METAL CHIP	560	0.5%	1/16W		
U	R5037		METAL CHIP	33	0.5%	1/16W	U	R5158		METAL CHIP	17.4	1%	1/16W	U	R6064		RES-CHIP	150K	5%	1/16W	U	R6229	METAL CHIP	680	0.5%	1/16W
U	R5038		METAL CHIP	33	0.5%	1/16W	U	R5159		METAL CHIP	17.4	1%	1/16W	U	R6068		METAL CHIP	120	5%	1/10W	U	R6230	METAL CHIP	15K	0.5%	1/16W
U	R5039		METAL CHIP	49.9	1%	1/16W	U	R5160		METAL CHIP	17.4	1%	1/16W	U	R6070		METAL CHIP	120	5%	1/10W	U	R6232	METAL CHIP	330	0.5%	1/16W
U	R5043		METAL CHIP	49.9	1%	1/16W	U	R5161		METAL CHIP	17.4	1%	1/16W	U	R6071		METAL CHIP	6.8K	0.5%	1/16W	U	R6233	METAL CHIP	560	0.5%	1/16W
U	R5048		METAL CHIP	10K	0.5%	1/16W	U	R5162		METAL CHIP	17.4	1%	1/16W	U	R6073		METAL CHIP	120	5%	1/10W	U	R6234	METAL CHIP	10	5%	1/10W
U	R5065		METAL CHIP	10K	0.5%	1/16W	U	R5167		METAL CHIP	60.4	1%	1/16W	U	R6079		RES-CHIP	100K	5%	1/16W	U	R6235	METAL CHIP	5.6K	0.5%	1/16W
U	R5066		METAL CHIP	10K	0.5%	1/16W	U	R5168		METAL CHIP	301	1%	1/16W	U	R6081		RES-CHIP	150K	5%	1/16W	U	R6240	METAL CHIP	2.2	5%	1/10W
U	R5067		METAL CHIP	10K	0.5%	1/16W	U	R5169		METAL CHIP	301	1%	1/16W	U	R6083		RES-CHIP	100K	5%	1/16W	U	R6243	METAL CHIP	2.2	5%	1/10W
U	R5070		METAL CHIP	10K	0.5%	1/16W	U	R5170		METAL CHIP	60.4	1%	1/16W	U	R6085		RES-CHIP	150K	5%	1/16W	U	R6246	RES-CHIP	2.2	5%	1/10W
U	R5071		METAL CHIP	240	0.5%	1/16W	U	R5171		METAL CHIP	60.4	1%	1/16W	U	R6098		METAL CHIP	390	5%	1/10W	U	R6247	RES-CHIP	2.2	5%	1/10W
U	R5072		METAL CHIP	270	0.5%	1/16W	U	R5172		METAL CHIP	301	1%	1/16W	U	R6103		RES-CHIP	10K	5%	1/16W	U	R6248	METAL CHIP	0.001	1%	2W
U	R5084		METAL CHIP	39	0.5%	1/16W	U	R5173		METAL CHIP	301	1%	1/16W	U	R6104		RES-CHIP	10K	5%	1/16W	U	R6249	METAL CHIP	0.001	1%	2W
U	R5085		METAL CHIP	39	0.5%	1/16W	U	R5174		METAL CHIP	60.4	1%	1/16W	U	R6105		RES-CHIP	10K	5%	1/16W	U	R6303	METAL CHIP	1K	0.5%	1/16W
U	R5095		METAL CHIP	2.2	5%	1/10W	U	R5175		METAL CHIP	60.4	1%	1/16W	U	R6106		RES-CHIP	10K	5%	1/16W	U	R6304	METAL CHIP	560	0.5%	1/16W
U	R5097		METAL CHIP	10K	0.5%	1/16W	U	R5176		METAL CHIP	301	1%	1/16W	U	R6107		RES-CHIP	10K	5%	1/16W	U	R6307	METAL CHIP	560	0.5%	1/16W
U	R5098		METAL CHIP	10K	0.5%	1/16W	U	R5177		METAL CHIP	301	1%	1/16W	U	R6108		RES-CHIP	10K	5%	1/16W	U	R6308	METAL CHIP	4.7K	0.5%	1/16W
U	R5099		METAL CHIP	2.2	5%	1/10W	U	R5178		METAL CHIP	60.4	1%	1/16W	U	R6109		RES-CHIP	10K	5%	1/16W	U	R6309	METAL CHIP	4.7K	0.5%	1/16W
U	R5103		METAL CHIP	330	0.5%	1/16W	U	R5183		RES-CHIP	33	5%	1/16W	U	R6111		METAL CHIP	22K	0.5%	1/16W	U	R6310	METAL CHIP	470	0.5%	1/16W
U	R5109		METAL CHIP	2.2	5%	1/10W	U	R5185		RES-CHIP	33	5%	1/16W	U	R6112		METAL CHIP	10K	0.5%	1/16W	U	R6311	METAL CHIP	470	0.5%	1/16W
U	R5111		METAL CHIP	49.9	1%	1/16W	U	R5187		METAL CHIP	10	0.5%	1/16W	U	R6113		RES-CHIP	4.7K	5%	1/16W	U	R6313	METAL CHIP	1.8K	0.5%	1/16W
U	R5112		METAL CHIP	49.9	1%	1/16W	U	R5189		METAL CHIP	1K	0.5%	1/16W	U	R6114		METAL CHIP	750	0.5%	1/16W	U	R6314	METAL CHIP	560	0.5%	1/16W
U	R5113		METAL CHIP	22	0.5%	1/16W	U	R6001		METAL CHIP	3.6K	0.5%	1/16W	U	R6115		METAL CHIP	56	0.5%	1/16W	U	R6315	METAL CHIP	4.7K	0.5%	1/16W
U	R5114		METAL CHIP	22	0.5%	1/16W	U	R6002		METAL CHIP	2.7K	0.5%	1/16W	U	R6117		METAL CHIP	3.9K	0.5%	1/16W	U	R6316	METAL CHIP	3.9K	0.5%	1/16W
U	R5115		METAL CHIP	22	0.5%	1/16W	U	R6005		METAL CHIP	560	0.5%	1/16W	U	R6118		METAL CHIP	33	0.5%	1/16W	U	R6317	METAL CHIP	4.7K	0.5%	1/16W
U	R5116		METAL CHIP	22	0.5%	1/16W	U	R6007		METAL CHIP	4.3K	0.5%	1/16W	U	R6119		RES-CHIP	910	5%	1/16W	U	R6318	METAL CHIP	3.9K	0.5%	1/16W
U	R5117		METAL CHIP	22	0.5%	1/16W	U	R6008		METAL CHIP	3K	0.5%	1/16W	U	R6120		METAL CHIP	10K	0.5%	1/16W	U	R6319	METAL CHIP	910	0.5%	1/16W
U	R5118		METAL CHIP	22	0.5%	1/16W	U	R6009		RES-CHIP	82	5%	1/16W	U	R6122		METAL CHIP	1K	0.5%	1/16W	U	R6320	METAL CHIP	3.3K	0.5%	1/16W
U	R5119		METAL CHIP	33	0.5%	1/16W	U	R6011		METAL CHIP	47K	0.5%	1/16W	U	R6124		METAL CHIP	560	0.5%	1/16W	U	R6321	METAL CHIP	1.3K	0.5%	1/16W
U	R5120		METAL CHIP	33	0.5%	1/16W	U	R6012		METAL CHIP	6.8K	0.5%	1/16W	U	R6126		METAL CHIP	680	0.5%	1/16W	U	R6323	METAL CHIP	1.5K	0.5%	1/16W
U	R5121		METAL CHIP	33	0.5%	1/16W	U	R6013		METAL CHIP	68K	0.5%	1/16W	U	R6127		METAL CHIP	15K	0.5%	1/16W	U	R6324	METAL CHIP	1.5K	0.5%	1/16W
U	R5122		METAL CHIP	33	0.5%	1/16W	U	R6014		METAL CHIP	18K	0.5%	1/16W	U	R6131		METAL CHIP	330	0.5%	1/16W	U	R6327	SHORT CHIP	0		
U	R5123		METAL CHIP	33	0.5%	1/16W	U	R6015		METAL CHIP	27K	0.5%	1/16W	U	R6132		METAL CHIP	560	0.5%	1/16W	U	R6333	METAL CHIP	91	0.5%	1/16W
U	R5124		METAL CHIP	33	0.5%	1/16W	U	R6016		METAL CHIP	47K	0.5%	1/16W	U	R6134		METAL CHIP	10	5%	1/10W	U	R6335	METAL CHIP	5.1K	0.5%	1/16W
U	R5125		METAL CHIP	49.9	1%	1/16W	U	R6017		METAL CHIP	16K	0.5%	1/16W	U	R6135		METAL CHIP	5.6K	0.5%	1/16W</						

<u>SC</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>SC</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
U	R6908		METAL CHIP	220	0.5%	1/16W				< VIBRATOR >			
U	R6909		METAL CHIP	5.6K	0.5%	1/16W				VIBRATOR, CRYSTAL (24.576MHz)			
U	R6910		METAL CHIP	1.3K	0.5%	1/16W	S	X2101	1-813-876-11	VIBRATOR, CRYSTAL (12MHz)			
U	R6911		METAL CHIP	11K	0.5%	1/16W	S	X3301	1-813-877-11	VIBRATOR, CRYSTAL (25MHz)			
			< NETWORK RESISTOR >				S	X3401	1-813-052-21	VIBRATOR, CRYSTAL (25MHz)			
U	RB2401		RES, NETWORK 22X4 (1005)				S	X3501	1-813-052-21	VIBRATOR, CRYSTAL (25MHz)			
U	RB2402		RES, NETWORK 22X4 (1005)				S	X4002	1-781-786-21	VIBRATOR, CRYSTAL (32.768kHz)			
U	RB2403		RES, NETWORK 22X4 (1005)				S	X5001	1-813-875-11	VIBRATOR, CRYSTAL (14.31818MHz)			
U	RB2404		RES, NETWORK 22X4 (1005)										
U	RB2405		RES, NETWORK 22X4 (1005)										
U	RB2406		RES, NETWORK 22X4 (1005)										
U	RB2407		RES, NETWORK 22X4 (1005)										
U	RB2408		RES, NETWORK 22X4 (1005)										
U	RB2409		RES, NETWORK 22X4 (1005)										
U	RB2501		RES, NETWORK 22X4 (1005)										
U	RB2502		RES, NETWORK 22X4 (1005)										
U	RB2503		RES, NETWORK 22X4 (1005)										
U	RB2504		RES, NETWORK 22X4 (1005)										
U	RB2505		RES, NETWORK 22X4 (1005)										
U	RB2506		RES, NETWORK 22X4 (1005)										
U	RB2507		RES, NETWORK 22X4 (1005)										
U	RB2508		RES, NETWORK 22X4 (1005)										
U	RB2509		RES, NETWORK 22X4 (1005)										
U	RB3801		RES, NETWORK 22X4 (1005)										
U	RB3802		RES, NETWORK 22X4 (1005)										
U	RB3803		RES, NETWORK 22X4 (1005)										
U	RB3804		RES, NETWORK 22X4 (1005)										
U	RB3805		RES, NETWORK 22X4 (1005)										
U	RB3806		RES, NETWORK 22X4 (1005)										
U	RB3807		RES, NETWORK 22X4 (1005)										
U	RB3808		RES, NETWORK 22X4 (1005)										
U	RB4002		RES, NETWORK 10KX4 (1005)										
U	RB4004		RES, NETWORK 82X4 (1005)										
U	RB4005		RES, NETWORK 82X4 (1005)										
U	RB4006		RES, NETWORK 22X4 (1005)										
U	RB4007		RES, NETWORK 22X4 (1005)										
U	RB6001		RES, NETWORK 1.5KX2 (1608)										
U	RB6301		RES, NETWORK 1.5KX2 (1608)										
U	RB6302		RES, NETWORK 1.5KX2 (1608)										
			< TERMINAL >										
U	TB4001		TERMINAL (ON BOARD CONTACT)										
U	TB4002		TERMINAL (ON BOARD CONTACT)										
			< THERMISTOR (POSITIVE) >										
S△	TH2401	1-805-726-11	THERMISTOR, POSITIVE										
S△	TH2501	1-805-726-11	THERMISTOR, POSITIVE										
S△	TH3280	1-802-243-11	THERMISTOR, POSITIVE										
S△	TH3301	1-802-243-11	THERMISTOR, POSITIVE										
S△	TH3401	1-805-762-11	THERMISTOR, POSITIVE										
S△	TH3402	1-805-762-11	THERMISTOR, POSITIVE										
S△	TH3701	1-805-762-11	THERMISTOR, POSITIVE										
S△	TH3702	1-802-243-11	THERMISTOR, POSITIVE										
S△	TH4001	1-805-762-11	THERMISTOR, POSITIVE										
S△	TH4002	1-805-762-11	THERMISTOR, POSITIVE										
S△	TH6001	1-802-243-11	THERMISTOR, POSITIVE										
S△	TH6002	1-802-246-11	THERMISTOR, POSITIVE										