

DCR-SX33E/SX34E/SX43/SX43E/SX44/
SX44E/SX53E/SX63/SX63E

SERVICE MANUAL

Ver. 1.2 2010.03

Revised-2

Replace the previously issued
SERVICE MANUAL 9-852-734-12
with this Manual.



Photo: DCR-SX43/Silver



LEVEL 3


US Model
Canadian Model
AEP Model
UK Model
North European Model
E Model
Australian Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model

Check the SERVICE NOTE (LEVEL 2) before the service.

Revision History

| Ver. | Date | History | Contents | S.M. Rev. issued |
|------|---------|--------------------------|--|---------------------|
| 1.0 | 2010.01 | Official Release | — | — |
| 1.1 | 2010.02 | Revised-1 (A1 09-458) | <ul style="list-style-type: none">• Correction of ELECTRICAL PARTS LIST MS-428 board is added from LEVEL 2. Page 2-2 Correction of others Page 2-1, 2-3• Correction of SCHEMATIC DIAGRAMS MS-428 board is added from LEVEL 2. Changes in accordance with the moving of MS-428 board. Page 6-7, 6-10 Correction of others Page 6-3, 6-5, 6-8, 6-9, 6-14, 6-18• Correction of PRINTED WIRING BOARDS MS-428 board is added from LEVEL 2. Page 6-21• Correction of others Page 6-19, 6-20 | Yes |
| 1.2 | 2010.03 | Revised-2 (A2 09-516) | <ul style="list-style-type: none">• Correction of SCHEMATIC DIAGRAMS Page 6-3, 6-8 | Yes |
| | | | | |

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.




Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  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  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.

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, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5.

Check the B+ voltage to see it is at the values specified.
6.

Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the leadfree mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

2. REPAIR PARTS LIST

DA-049

- NOTE:
- XX, -X mean standardized parts, so they may have some differences from the original one.
 - Items marked “**” are not stocked since they are seldom re-quired for routine service. Some delay should be anticipated when ordering these items.
 - The mechanical parts with no reference number in the exploded views are not supplied.
 - Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - CAPACITORS:
uF: μF
COILS
uH: μH
 - RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
 - SEMICONDUCTORS
In each case, u: μ, for example:
uA...: μA... , uPA... , μPA... ,
uPB... , μPB... , uPC... , μPC... ,
uPD... , μPD...

When indicating parts by reference number, please include the board name.

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.

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

Note: Replace the battery holder (BH7301) together when replacing the lithium storage battery (BT7301) on the MS-428 board. (The battery holder removed once cannot be used again.)
When mounting these parts, mount new battery holder first and attach new lithium battery next.

2-2. ELECTRICAL PARTS LIST

| Ref. No. | Part No. | Description |
|----------|--------------|---|
| | A-1751-652-A | DA-049 BOARD, COMPLETE (SERVICE) (SX43/SX43E/SX44/SX44E/SX63/SX63E) |
| | A-1760-126-A | DA-049 BOARD, COMPLETE (SERVICE) (SX33E/SX34E/SX53E) ***** < CAPACITOR > |
| C2901 | 1-127-988-81 | CERAMIC CHIP 0.015uF 10% 16V |
| C2902 | 1-127-988-81 | CERAMIC CHIP 0.015uF 10% 16V |
| C2903 | 1-164-937-11 | CERAMIC CHIP 0.001uF 10% 50V |
| C2904 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C2905 | 1-164-937-11 | CERAMIC CHIP 0.001uF 10% 50V |
| C2906 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| C2907 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| * C2909 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C2910 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C2911 | 1-165-989-11 | CERAMIC CHIP 10uF 10% 6.3V |
| * C2915 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C2916 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| C2919 | 1-100-567-81 | CERAMIC CHIP 0.01uF 10% 25V |
| * C2920 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C2921 | 1-112-717-91 | CERAMIC CHIP 1uF 10% 6.3V |
| C2922 | 1-165-989-11 | CERAMIC CHIP 10uF 10% 6.3V |
| C2923 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| * C2924 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C2926 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C2927 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C2928 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| C2929 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| * C2930 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C2932 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C4002 | 1-164-935-11 | CERAMIC CHIP 470PF 10% 50V |
| C4004 | 1-164-935-11 | CERAMIC CHIP 470PF 10% 50V |
| C4608 | 1-165-875-11 | CERAMIC CHIP 10uF 10% 10V |
| C4609 | 1-165-875-11 | CERAMIC CHIP 10uF 10% 10V |
| C4610 | 1-165-875-11 | CERAMIC CHIP 10uF 10% 10V |
| * C4611 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C4612 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C4613 | 1-164-937-11 | CERAMIC CHIP 0.001uF 10% 50V |
| C4614 | 1-164-937-11 | CERAMIC CHIP 0.001uF 10% 50V |
| C4702 | 1-127-715-11 | CERAMIC CHIP 0.22uF 10% 16V |
| * C4704 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C4705 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C4706 | 1-165-989-11 | CERAMIC CHIP 10uF 10% 6.3V |
| * C4707 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| C4708 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4710 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| * C4711 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C4712 | 1-114-582-11 | CERAMIC CHIP 0.1uF 10% 16V |
| * C4713 | 1-112-298-91 | CERAMIC CHIP 1uF 10% 16V |
| C4715 | 1-112-746-11 | CERAMIC CHIP 4.7uF 10% 6.3V |
| C4716 | 1-107-823-11 | CERAMIC CHIP 0.47uF 10% 16V |
| C4719 | 1-100-581-81 | CERAMIC CHIP 0.0047uF 10% 50V |
| C4720 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4721 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4722 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4723 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4724 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |
| C4726 | 1-165-908-11 | CERAMIC CHIP 1uF 10% 10V |

| Ref. No. | Part No. | Description | | | | |
|---------------|--------------|--------------------------------|---------|-----|------|--|
| C4727 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4728 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4729 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4730 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4732 | 1-165-875-11 | CERAMIC CHIP | 10uF | 10% | 10V | |
| * C4733 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| * C4734 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| C4735 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4736 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | |
| C4737 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | |
| C4743 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | |
| C4744 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4747 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | |
| C4750 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | |
| C4751 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4752 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | |
| C4754 | 1-112-717-91 | CERAMIC CHIP | 1uF | 10% | 6.3V | |
| C4756 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4757 | 1-127-820-11 | CERAMIC CHIP | 4.7uF | 10% | 16V | |
| C4758 | 1-112-717-91 | CERAMIC CHIP | 1uF | 10% | 6.3V | |
| * C4759 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| * C4760 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| C4761 | 1-125-889-11 | CERAMIC CHIP | 2.2uF | 10% | 10V | |
| * C4762 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| C4764 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | |
| C4765 | 1-112-300-91 | CERAMIC CHIP | 4.7uF | 10% | 10V | |
| C4767 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | |
| C4769 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | |
| * C4771 | 1-112-298-91 | CERAMIC CHIP | 1uF | 10% | 16V | |
| C4772 | 1-100-591-91 | CERAMIC CHIP | 1uF | 10% | 25V | |
| C4901 | 1-119-750-11 | TANTAL. CHIP | 22uF | 20% | 6.3V | |
| C4906 | 1-164-852-11 | CERAMIC CHIP | 12PF | 5% | 50V | |
| C4907 | 1-164-852-11 | CERAMIC CHIP | 12PF | 5% | 50V | |
| C4908 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C4909 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | |
| C4911 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | |
| C4912 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | |
| C4913 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C4916 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | |
| C4917 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| < CONNECTOR > | | | | | | |
| CN4002 | 1-779-327-51 | CONNECTOR, FFC/FPC 6P | | | | |
| CN4003 | 1-818-803-21 | CONNECTOR, BOARD TO BOARD 100P | | | | |
| CN4004 | 1-779-327-51 | CONNECTOR, FFC/FPC 6P | | | | |
| CN4007 | 1-580-056-21 | PIN, CONNECTOR (SMD) 3P | | | | |
| CN4009 | 1-815-794-13 | CONNECTOR (MULTIPLE) | | | | |
| CN4010 | 1-778-506-21 | PIN, CONNECTOR (PC BOARD) 2P | | | | |
| < DIODE > | | | | | | |
| D4002 | 8-719-056-36 | DIODE 015AZ12-TPL3 | | | | |
| * D4603 | 6-502-629-01 | DIODE 1SS420 (TL3SONY.F) | | | | |
| * D4703 | 6-502-629-01 | DIODE 1SS420 (TL3SONY.F) | | | | |
| * D4704 | 6-502-629-01 | DIODE 1SS420 (TL3SONY.F) | | | | |
| * D4705 | 6-502-629-01 | DIODE 1SS420 (TL3SONY.F) | | | | |
| * D4706 | 6-502-629-01 | DIODE 1SS420 (TL3SONY.F) | | | | |

DCR-SX33E/SX34E/SX43/SX43E/SX44/SX44E/SX53E/SX63/SX63E_L3

| Ref. No. | Part No. | Description | | | |
|--|--------------|-------------------------------------|---------|-----|-------|
| R7303 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W |
| R7304 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W |
| R7305 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W |
| | | | | | |
| R7306 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| R7307 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R7309 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7310 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7311 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | | | | |
| R7312 | 1-218-990-81 | SHORT CHIP | 0 | | |
| R7313 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7314 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7315 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7316 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W |
| | | | | | |
| R7318 | 1-218-990-81 | SHORT CHIP | 0 | | |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| R7320 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W |
| | | | | | |
| A-1751-646-A | | VC-587 BOARD, COMPLETE (SERVICE) | | | |
| | | (SX33E/SX43/SX43E) | | | |
| A-1751-647-A | | VC-587 BOARD, COMPLETE (SERVICE) | | | |
| | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | |
| | | ***** | | | |
| (IC7801 is not supplied, but it is included in VC-587 complete board (service).) | | | | | |
| < CAPACITOR > | | | | | |
| * C1002 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1006 | 1-112-717-91 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1010 | 1-112-717-91 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1102 | 1-112-717-91 | CERAMIC CHIP | 1uF | 10% | 6.3V |
| C1103 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| | | | | | |
| C1106 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V |
| C1201 | 1-164-866-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C1202 | 1-164-866-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| * C1203 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1204 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| | | | | | |
| * C1205 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1206 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1207 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1208 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1209 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| | | | | | |
| * C1211 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1212 | 1-112-300-91 | CERAMIC CHIP | 4.7uF | 10% | 10V |
| C1213 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| * C1214 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1216 | 1-119-750-11 | TANTAL CHIP | 22uF | 20% | 6.3V |
| | | | | | |
| C1220 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V |
| * C1221 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1222 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| * C1224 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V |
| C1225 | 1-127-820-11 | CERAMIC CHIP | 4.7uF | 10% | 16V |
| | | | | | |
| C1227 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V |
| C1228 | 1-119-750-11 | TANTAL CHIP | 22uF | 20% | 6.3V |
| C1231 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V |

| Ref. No. | Part No. | Description | | | | Ref. No. | Part No. | Description | | | | Ref. No. | Part No. | Description | | | | Ref. No. | Part No. | Description | | | |
|----------|--------------|--------------|----------|--------|------|----------|--------------|--------------|----------|-------|------|----------|----------------|---|----------|--------------|--|----------------|----------|-------------|-------|--|--|
| C1233 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | * C7728 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | CN1103 | 1-822-265-21 | CONNECTOR, USB (MINI AB) | * Q1103 | 6-552-123-01 | TRANSISTOR | ECH8652-S-TL-H | | | | | |
| C1234 | 1-164-845-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V | C7729 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | CN1203 | 1-816-648-61 | FFC/FPC CONNECTOR (LIF) 20P | * Q5401 | 6-552-397-01 | TRANSISTOR | DSC300100L | | | | | |
| | | | | | | C7730 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | CN5401 | 1-816-650-51 | FFC/CONNECTOR, FPC (LIF) 24P | * Q5402 | 6-552-326-01 | TRANSISTOR | DMA964060L | | | | | |
| | | | | | | * C7732 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | | | |
| C5401 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 50V | | | | | | | | | < DIODE > | * Q5403 | 6-552-397-01 | TRANSISTOR | DSC300100L | | | | | |
| C5403 | 1-100-581-81 | CERAMIC CHIP | 0.0047uF | 10% | 50V | * C7733 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | D1001 | 8-719-421-71 | DIODE MA132WA | * Q7501 | 6-552-345-01 | TRANSISTOR | DRA3143X0L | | | | | |
| C5404 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | * C7801 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | D1002 | 8-719-084-17 | DIODE EMZ6.8ET2R | * Q8901 | 6-552-354-01 | TRANSISTOR | DRC3144E0L | | | | | |
| * C5405 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C7802 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | D5401 | 8-719-056-23 | DIODE MA2S111-(K8).SO | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| * C5406 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C7803 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | D7601 | 8-719-056-23 | DIODE MA2S111-(K8).SO | * Q8902 | 6-552-397-01 | TRANSISTOR | DSC300100L | | | | | |
| | | | | | | C7804 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | D7602 | 8-719-056-23 | DIODE MA2S111-(K8).SO | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| C5407 | 1-164-935-11 | CERAMIC CHIP | 470PF | 10% | 50V | | | | | | | | | < FERRITE BEAD > | Q8903 | 8-729-055-88 | TRANSISTOR | MCH3406-TL-E | | | | | |
| C5408 | 1-119-923-11 | CERAMIC CHIP | 0.047uF | 10% | 10V | * C7805 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| C5409 | 1-165-897-11 | TANTAL. CHIP | 22uF | 20% | 10V | C7806 | 1-131-862-91 | TANTAL. CHIP | 47uF | 20% | 4V | | | | | | | | | | | | |
| C5410 | 1-125-891-11 | CERAMIC CHIP | 0.47uF | 10% | 10V | C7807 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | | | | | | | | | | | | |
| C5412 | 1-164-937-11 | CERAMIC CHIP | 0.001uF | 10% | 50V | C7808 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | | | | | | | | | | | | |
| | | | | | | * C7809 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | FB1201 | 1-400-331-11 | FERRITE, EMI (SMD) (1005) | Q8904 | 8-729-055-88 | TRANSISTOR | MCH3406-TL-E | | | | | |
| C5413 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | | | | FB1202 | 1-400-723-11 | INDUCTOR, FERRITE BEAD (1005) | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| C5416 | 1-164-939-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V | * C7813 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | FB1203 | 1-400-331-11 | FERRITE, EMI (SMD) (1005) | | | < RESISTOR > | | | | | | |
| C5418 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | C7901 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | FB1204 | 1-400-331-11 | FERRITE, EMI (SMD) (1005) | R1001 | 1-218-954-11 | METAL CHIP | 1.2K | 5% | 1/16W | | | |
| C5419 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | * C7902 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | FB7501 | 1-469-580-21 | INDUCTOR, FERRITE BEAD (1005) | R1002 | 1-218-954-11 | METAL CHIP | 1.2K | 5% | 1/16W | | | |
| * C7501 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C7903 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | R1006 | 1-218-958-11 | METAL CHIP | 2.7K | 5% | 1/16W | | | |
| | | | | | | * C7904 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | FB7603 | 1-469-580-21 | INDUCTOR, FERRITE BEAD (1005) | R1007 | 1-218-944-11 | METAL CHIP | 180 | 5% | 1/16W | | | |
| C7502 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | | | | | | | FB7604 | 1-469-580-21 | INDUCTOR, FERRITE BEAD (1005) | R1008 | 1-218-939-11 | METAL CHIP | 68 | 5% | 1/16W | | | |
| C7503 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | * C7905 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * FB8901 | 1-481-300-11 | INDUCTOR, FERRITE BEAD (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | | | | |
| * C7504 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C8901 | 1-164-942-11 | CERAMIC CHIP | 0.0068uF | 10% | 16V | | | | * FB8902 | 1-481-300-11 | INDUCTOR, FERRITE BEAD (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| * C7506 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | | | | | | | | | |
| * C7508 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C8904 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | FB8903 | 1-469-580-21 | INDUCTOR, FERRITE BEAD (1005) | R1010 | 1-218-974-11 | METAL CHIP | 56K | 5% | 1/16W | | | |
| | | | | | | | | | | | | | | | | | (SX33E/SX43/SX43E) | | | | | | |
| C7510 | 1-112-746-11 | CERAMIC CHIP | 4.7uF | 10% | 6.3V | C8906 | 1-137-710-91 | CERAMIC CHIP | 10uF | 20% | 6.3V | | | | R1010 | 1-218-990-81 | SHORT CHIP | 0 | | | | | |
| * C7511 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | |
| * C7514 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C8907 | 1-137-710-91 | CERAMIC CHIP | 10uF | 20% | 6.3V | | | | R1011 | 1-218-975-11 | METAL CHIP | 68K | 5% | 1/16W | | | |
| C7515 | 1-165-908-11 | CERAMIC CHIP | 1uF | 10% | 10V | | | | | | | | | | | | (SX33E/SX43/SX43E) | | | | | | |
| C7516 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | | | | | | | | | | R1018 | 1-218-990-81 | SHORT CHIP | 0 | | | | | |
| | | | | | | * C8908 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC1002 | 6-714-502-01 | IC BD2224G-TR | R1019 | 1-218-990-81 | SHORT CHIP | 0 | | | | | |
| C7518 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | | | | | | | * IC1004 | 6-714-502-01 | IC BD2224G-TR | | | | | | | | | |
| C7519 | 1-100-567-81 | CERAMIC CHIP | 0.01uF | 10% | 25V | * C8909 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | IC1101 | 6-704-099-01 | IC TC7WZ08FK (TE85R) | R1040 | 1-218-947-11 | METAL CHIP | 330 | 5% | 1/16W | | | |
| * C7521 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | IC1102 | 6-704-030-01 | IC TC7SA04FU (TE85R) | R1042 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | |
| C7522 | 1-165-884-11 | CERAMIC CHIP | 2.2uF | 10% | 6.3V | * C8910 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC1103 | 6-714-833-01 | IC TPS2553DBVR-1 | R1043 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | |
| * C7701 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | R1046 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | |
| | | | | | | * C8911 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC1201 | 6-711-079-01 | IC R2J45015AHBGW0 | R1047 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | |
| * C7702 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | * IC1202 | 6-708-445-01 | IC R1114Q291D-TR-FA | | | | | | | | | |
| * C7703 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | IC5401 | 8-759-637-96 | IC uPD16877MA-6A5-E2 | R1048 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | |
| * C7704 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C8912 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | IC5402 | 8-759-693-13 | IC NJM12904V (TE2) | R1110 | 1-218-969-11 | METAL CHIP | 22K | 5% | 1/16W | | | |
| * C7705 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | IC5403 | 8-759-693-13 | IC NJM12904V (TE2) | R1111 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | | | |
| * C7706 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | R1112 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | | | |
| | | | | | | * C8913 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC5404 | 6-714-440-01 | IC BH72220FVM-TR | R1113 | 1-218-969-11 | METAL CHIP | 22K | 5% | 1/16W | | | |
| * C7707 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | * IC7501 | 6-713-561-01 | IC MB8AC1020BGL-G-ERE1 | | | | | | | | | |
| * C7708 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C8914 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | IC7801 | (Not supplied) | IC K5R1G13ACD-AK60T | R1114 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | |
| C7709 | 1-125-889-11 | CERAMIC CHIP | 2.2uF | 10% | 10V | | | | | | | | | (IC7801 is supplied included in VC-587 complete board (service).) | R1118 | 1-208-918-11 | METAL CHIP | 20K | 0.5% | 1/16W | | | |
| C7710 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | * C8915 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC7901 | 6-714-015-01 | IC K4X56323PL-8GC6T | R1202 | 1-218-937-11 | METAL CHIP | 47 | 5% | 1/16W | | | |
| C7711 | 1-125-889-11 | CERAMIC CHIP | 2.2uF | 10% | 10V | | | | | | | | | | R1203 | 1-218-971-11 | METAL CHIP | 33K | 5% | 1/16W | | | |
| | | | | | | * C8916 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * IC8901 | 6-714-441-01 | IC MB87M8412BGL-G-ERE1 | R1211 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | |
| * C7712 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) | | | | | | | | | |
| * C7713 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C8917 | 1-164-850-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V | | | | | | | | | | | | |
| * C7714 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | < COIL > | R1212 | 1-218-937-11 | METAL CHIP | 47 | 5% | 1/16W | | | |
| * C7715 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | C8918 | 1-164-852-11 | CERAMIC CHIP | 12PF | 5% | 50V | * L1201 | 1-481-425-21 | INDUCTOR | 10uH | R3206 | 1-218-990-81 | SHORT CHIP | 0 | | | | |
| C7716 | 1-125-777-11 | CERAMIC CHIP | 0.1uF | 10% | 10V | | | | | | | L5401 | 1-469-553-21 | INDUCTOR | 4.7uH | R3207 | 1-218-990-81 | SHORT CHIP | 0 | | | | |
| | | | | | | | | | | | | * L5402 | 1-481-425-21 | INDUCTOR | 10uH | R3208 | 1-218-990-81 | SHORT CHIP | 0 | | | | |
| * C7717 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C8920 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * L7501 | 1-481-425-21 | INDUCTOR | 10uH | R3209 | 1-218-990-81 | SHORT CHIP | 0 | | | | |
| * C7718 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | * L7502 | 1-481-425-21 | INDUCTOR | 10uH | | | | | | | | |
| * C7719 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | * C8921 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | | | |
| C7720 | 1-165-989-11 | CERAMIC CHIP | 10uF | 10% | 6.3V | | | | | | | * L7503 | 1-481-425-21 | INDUCTOR | 10uH | R5407 | 1-218-989-11 | METAL CHIP | 1M | 5% | 1/16W | | |
| * C7721 | 1-114-582-11 | CERAMIC CHIP | 0.1uF | 10% | 16V | | | | | | | | | | | R5408 | 1-218-957-11 | METAL CHIP | 2.2K | 5% | 1/16W | | |
| | | | | | | | | | | | | | | | | R5409 | 1-218-981-91 | METAL CHIP | 220K | 5% | 1/16W | | |
| | | | | | | | | | | | | | | | | | | | | | | | |








| Ref. No. | Part No. | Description | | | | | | | |
|----------|--------------|-------------|------|------|-------|----------|--------------|---------------------------|-------------------------------------|
| R7507 | 1-208-911-11 | METAL CHIP | 10K | 0.5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7510 | 1-218-935-11 | METAL CHIP | 33 | 5% | 1/16W | | | | |
| R7513 | 1-208-683-11 | METAL CHIP | 1K | 0.5% | 1/16W | R8912 | 1-218-965-11 | METAL CHIP | 10K 5% 1/16W |
| R7514 | 1-208-683-11 | METAL CHIP | 1K | 0.5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| | | | | | | R8913 | 1-218-990-81 | SHORT CHIP | 0 |
| | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7523 | 1-218-961-11 | METAL CHIP | 4.7K | 5% | 1/16W | R8914 | 1-208-909-11 | METAL CHIP | 8.2K 0.5% 1/16W |
| R7524 | 1-218-961-11 | METAL CHIP | 4.7K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7527 | 1-218-948-11 | METAL CHIP | 390 | 5% | 1/16W | R8915 | 1-218-990-81 | SHORT CHIP | 0 |
| R7528 | 1-218-948-11 | METAL CHIP | 390 | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7543 | 1-218-933-11 | METAL CHIP | 22 | 5% | 1/16W | R8916 | 1-218-985-11 | METAL CHIP | 470K 5% 1/16W |
| | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7544 | 1-218-933-11 | METAL CHIP | 22 | 5% | 1/16W | | | | |
| R7545 | 1-218-933-11 | METAL CHIP | 22 | 5% | 1/16W | R8917 | 1-218-985-11 | METAL CHIP | 470K 5% 1/16W |
| R7546 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7555 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | R8921 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| R7557 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| | | | | | | R8922 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| R7562 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7563 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | R8924 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| R7564 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7565 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | R8925 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| R7566 | 1-218-990-81 | SHORT CHIP | 0 | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| | | | | | | | | | |
| R7580 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | R8926 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| R7581 | 1-218-938-11 | METAL CHIP | 56 | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7582 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | R8927 | 1-218-950-11 | METAL CHIP | 560 5% 1/16W |
| R7583 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7587 | 1-218-939-11 | METAL CHIP | 68 | 5% | 1/16W | R8928 | 1-218-941-81 | METAL CHIP | 100 5% 1/16W |
| | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7614 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W | R8929 | 1-218-965-11 | METAL CHIP | 10K 5% 1/16W |
| R7617 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7618 | 1-218-941-81 | METAL CHIP | 100 | 5% | 1/16W | | | | |
| R7620 | 1-218-973-11 | METAL CHIP | 47K | 5% | 1/16W | | | | < COMPOSITION CIRCUIT BLOCK > |
| R7625 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W | | | | |
| | | | | | | RB1001 | 1-234-378-21 | RES, NETWORK | 10K (1005X4) |
| R7626 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W | RB1002 | 1-234-400-21 | CONDUCTOR, NETWORK | (1005X4) |
| R7627 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W | RB1005 | 1-234-400-21 | CONDUCTOR, NETWORK | (1005X4) |
| R7628 | 1-220-169-11 | METAL CHIP | 75 | 5% | 1/16W | RB5401 | 1-234-380-21 | RES, NETWORK | 47K (1005X4) |
| R7635 | 1-218-929-11 | METAL CHIP | 10 | 5% | 1/16W | RB5402 | 1-234-383-21 | RES, NETWORK | 470K (1005X4) |
| R7636 | 1-218-937-11 | METAL CHIP | 47 | 5% | 1/16W | | | | |
| | | | | | | RB5403 | 1-234-375-21 | RES, NETWORK | 1K (1005X4) |
| R7637 | 1-218-929-11 | METAL CHIP | 10 | 5% | 1/16W | RB5404 | 1-234-379-21 | RES, NETWORK | 22K (1005X4) |
| R7638 | 1-218-939-11 | METAL CHIP | 68 | 5% | 1/16W | RB7502 | 1-234-375-21 | RES, NETWORK | 1K (1005X4) |
| R7640 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | RB7504 | 1-234-375-21 | RES, NETWORK | 1K (1005X4) |
| R7641 | 1-218-990-81 | SHORT CHIP | 0 | | | RB7507 | 1-234-378-21 | RES, NETWORK | 10K (1005X4) |
| R7642 | 1-218-990-81 | SHORT CHIP | 0 | | | | | | |
| | | | | | | * RB7508 | 1-234-384-11 | RES, NETWORK | 1M (1005X4) |
| R7643 | 1-218-962-11 | METAL CHIP | 5.6K | 5% | 1/16W | RB7512 | 1-234-381-11 | RES, NETWORK | 100K (1005X4) |
| R7644 | 1-218-961-11 | METAL CHIP | 4.7K | 5% | 1/16W | RB7513 | 1-234-702-11 | RES, NETWORK | 68 (1005X4) |
| R7646 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | RB7514 | 1-234-702-11 | RES, NETWORK | 68 (1005X4) |
| R7649 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | RB7515 | 1-234-381-11 | RES, NETWORK | 100K (1005X4) |
| R7650 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | | |
| | | | | | | RB7801 | 1-234-380-21 | RES, NETWORK | 47K (1005X4) |
| R7861 | 1-218-933-11 | METAL CHIP | 22 | 5% | 1/16W | RB8902 | 1-234-378-21 | RES, NETWORK | 10K (1005X4) |
| R7867 | 1-218-953-11 | METAL CHIP | 1K | 5% | 1/16W | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R7904 | 1-218-977-11 | METAL CHIP | 100K | 5% | 1/16W | | | | |
| R8903 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | | < VIBRATOR > |
| | | | | | | X1201 | 1-814-072-21 | QUARTZ CRYSTAL OSCILLATOR | (24MHz) |
| R8904 | 1-218-990-81 | SHORT CHIP | 0 | | | * X7501 | 1-813-403-81 | QUARTZ CRYSTAL OSCILLATOR | (12MHz) |
| | | | | | | * X8901 | 1-813-328-11 | VIBRATOR, CRYSTAL | (48MHz) |
| | | | | | | | | | (SX34E/SX44/SX44E/SX53E/SX63/SX63E) |
| R8906 | 1-218-990-81 | SHORT CHIP | 0 | | | | | | |
| | | | | | | | | | |
| R8907 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | | |
| | | | | | | | | | |
| R8908 | 1-218-990-81 | SHORT CHIP | 0 | | | | | | |
| | | | | | | | | | |
| R8909 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | | |
| | | | | | | | | | |
| R8910 | 1-218-965-11 | METAL CHIP | 10K | 5% | 1/16W | | | | |

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS
(In addition to this, the necessary note is printed in each block)

For Schematic Diagrams

- All capacitors are in μF unless otherwise noted. pF : μF . 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted.
 $\text{k}\Omega=1000\ \Omega$, $\text{M}\Omega=1000\ \text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.



| | | |
|--------------------|-----------|--------------------------|
| Example | C541 | L452 |
| | 22U | 10UH |
| | TA A | 2520 |
| | TA | A |
| Kinds of capacitor | | External dimensions (mm) |
| | Case size | |


- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
XEDIT → EDIT PB/XREC → PB/REC
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+, -) B LINE.
- : adjustment for repair.

Precautions for Replacement of Imager







- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

When indicating parts by reference number, please include the board name.

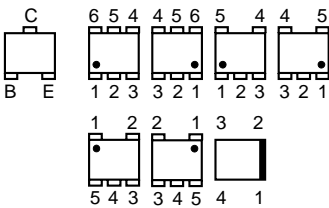
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

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

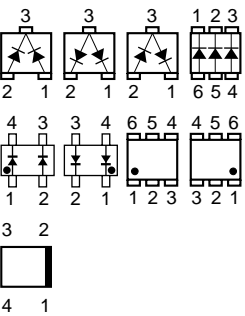
For Printed Wiring Boards

- : Uses unleaded solder.
- : Circuit board
- : Flexible board
- : Pattern from the side which enables seeing.
- : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

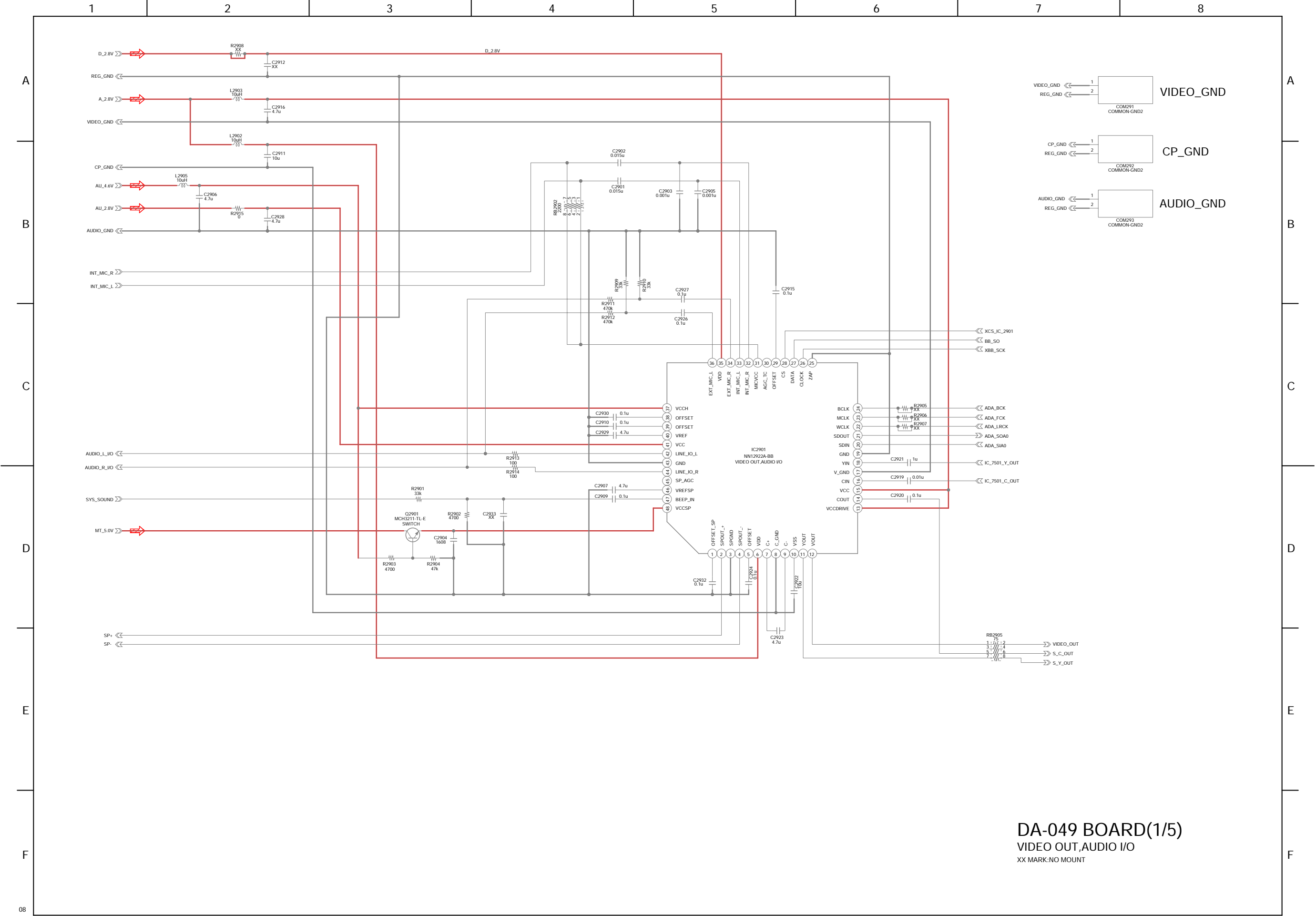
- Chip parts.
Transistor



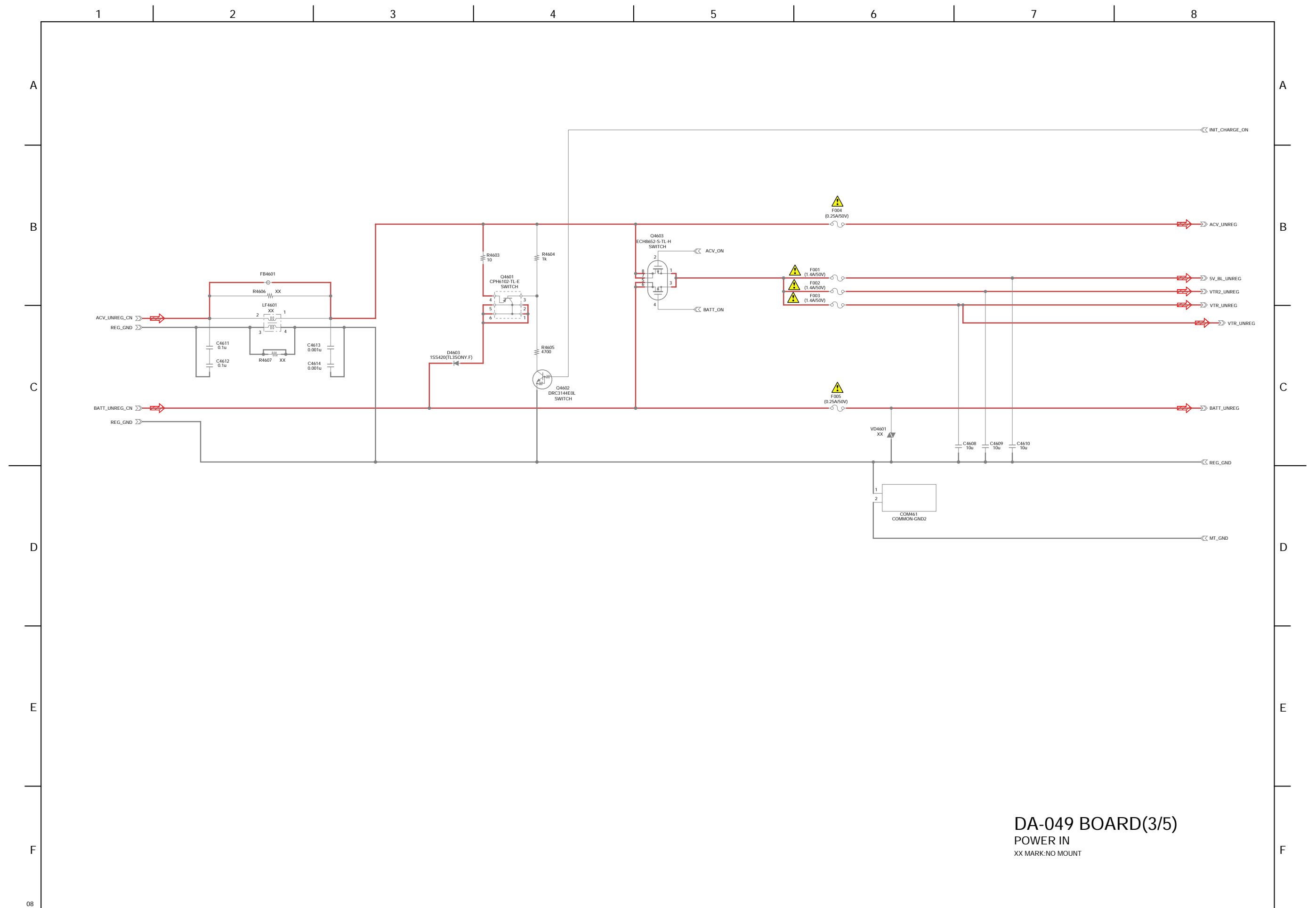
- Diode

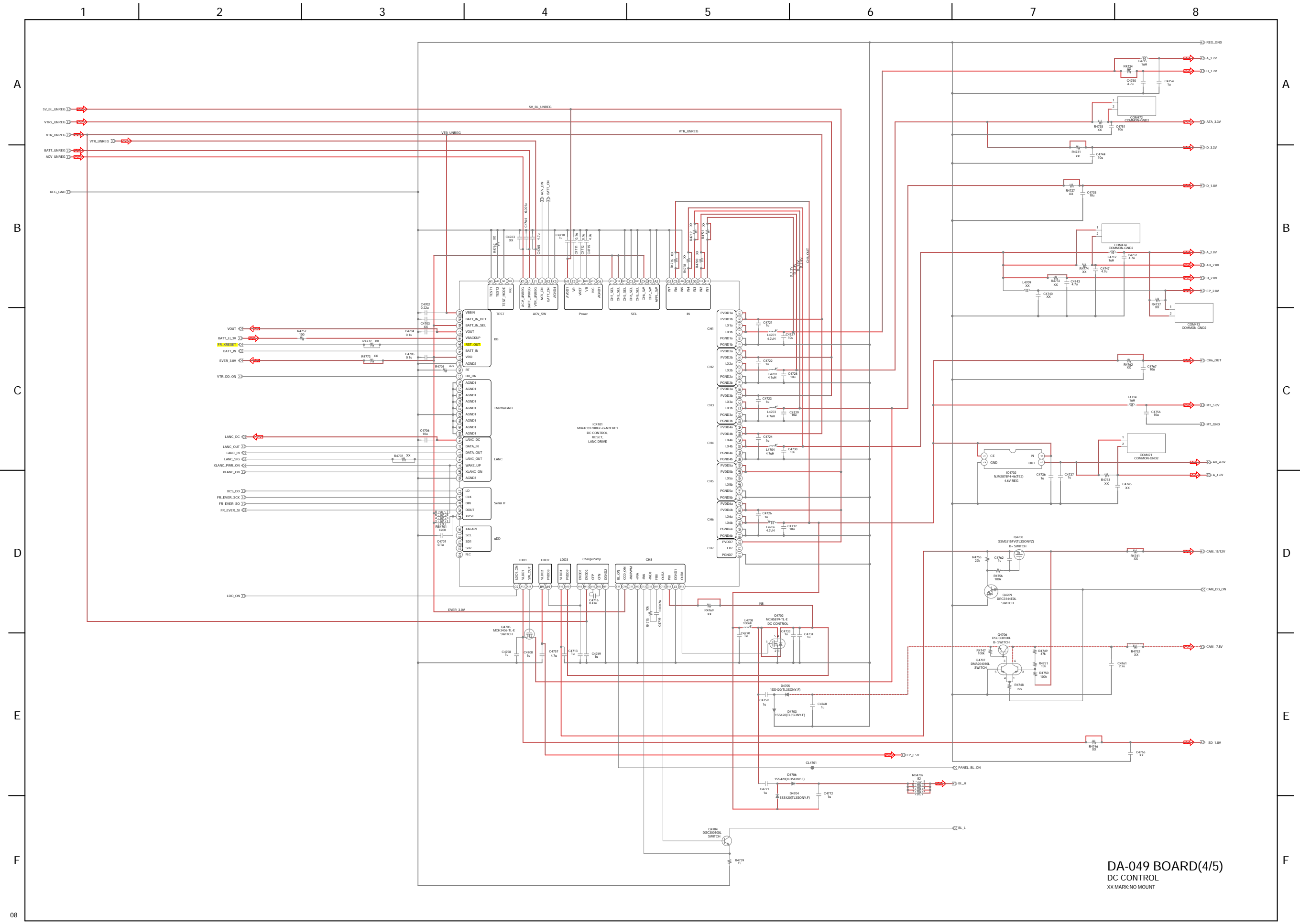


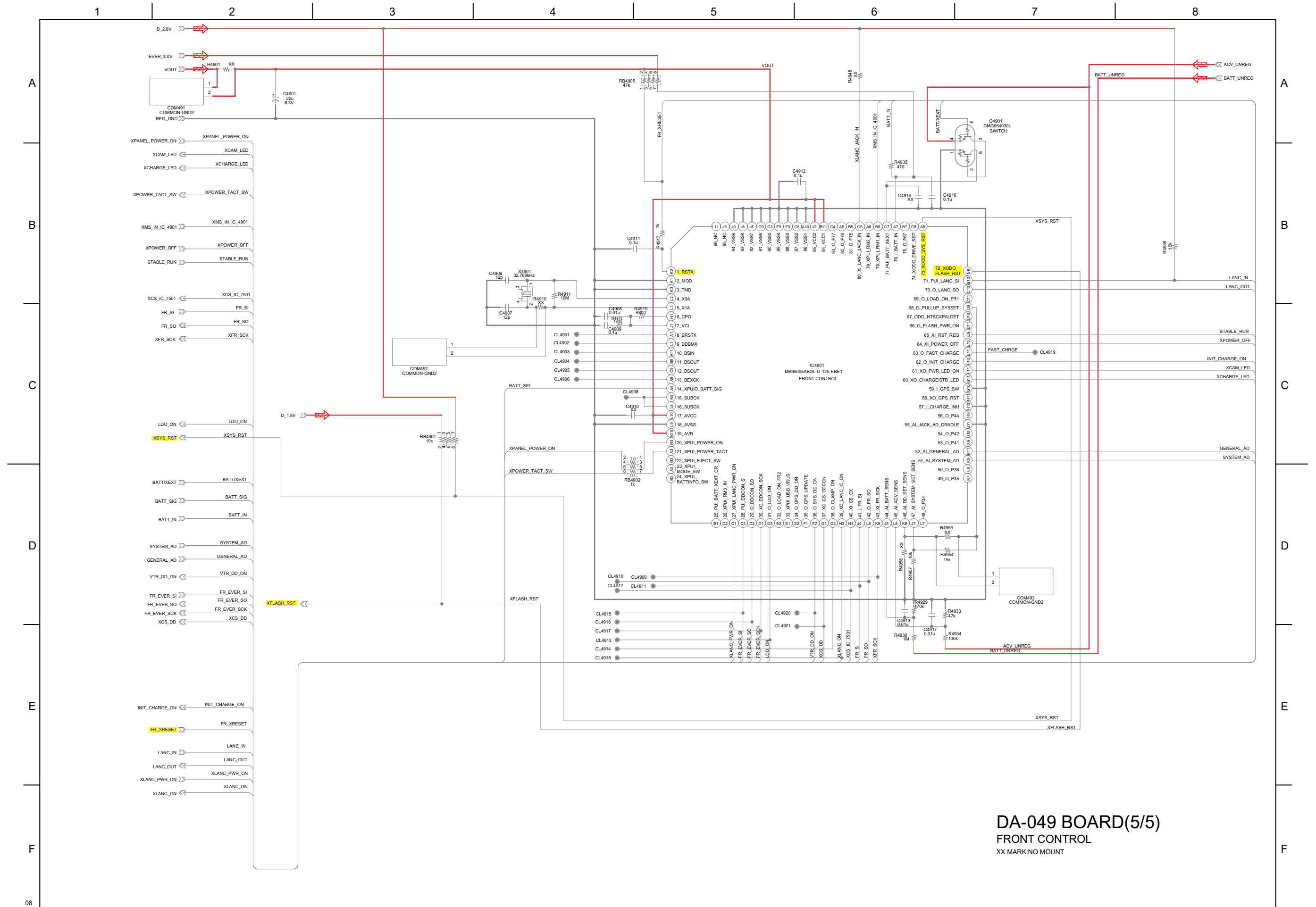
6-1. SCHEMATIC DIAGRAMS

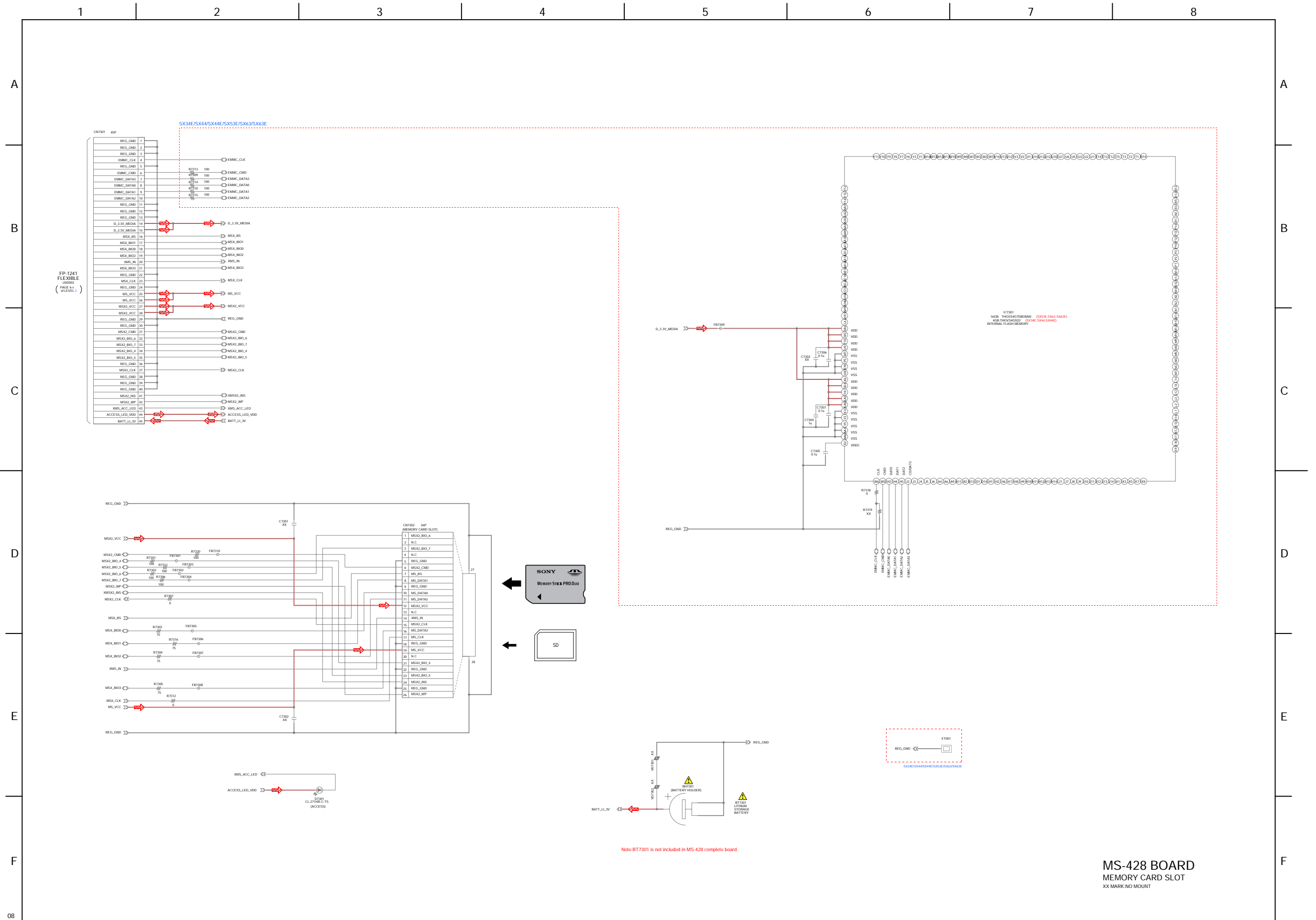






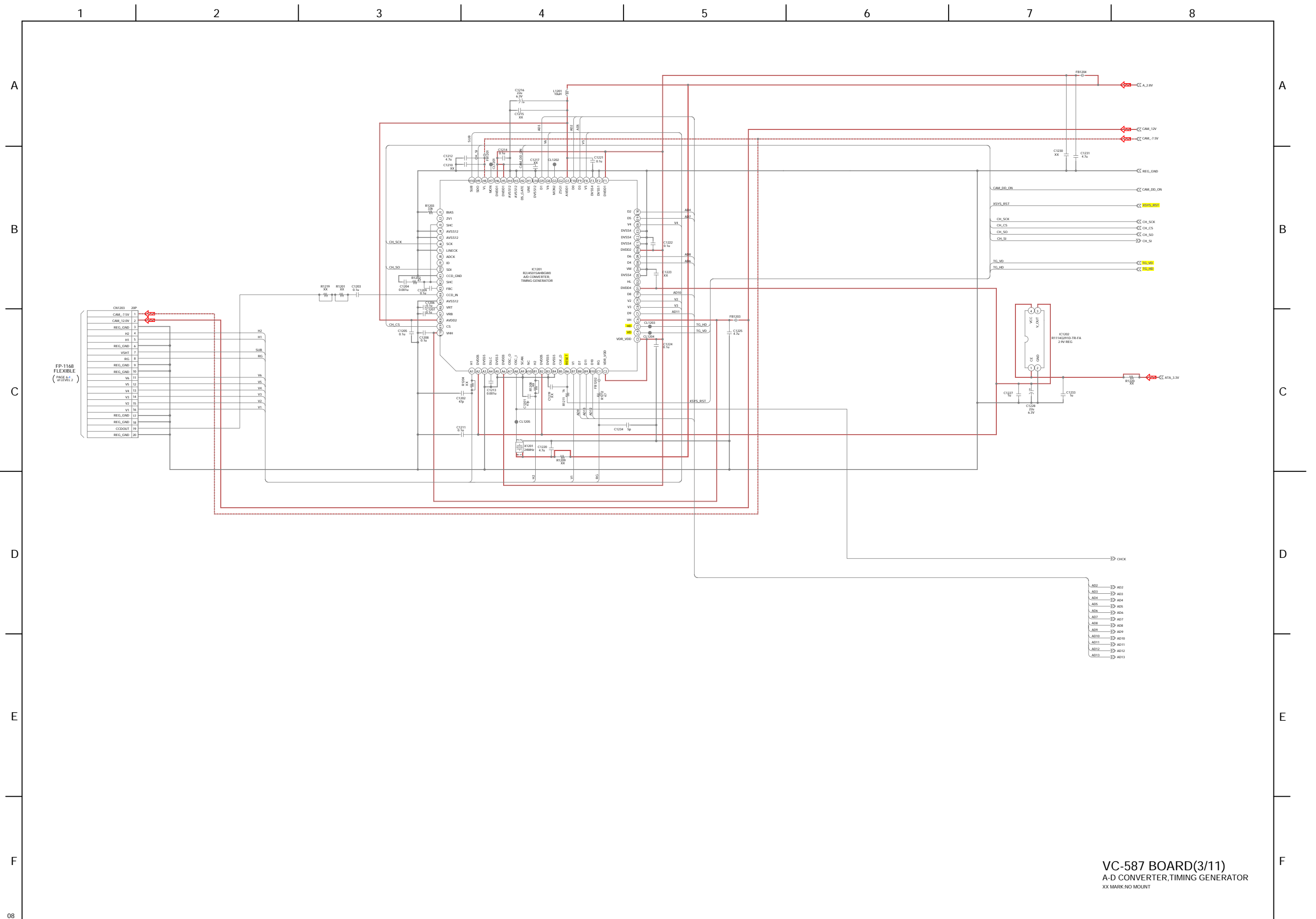


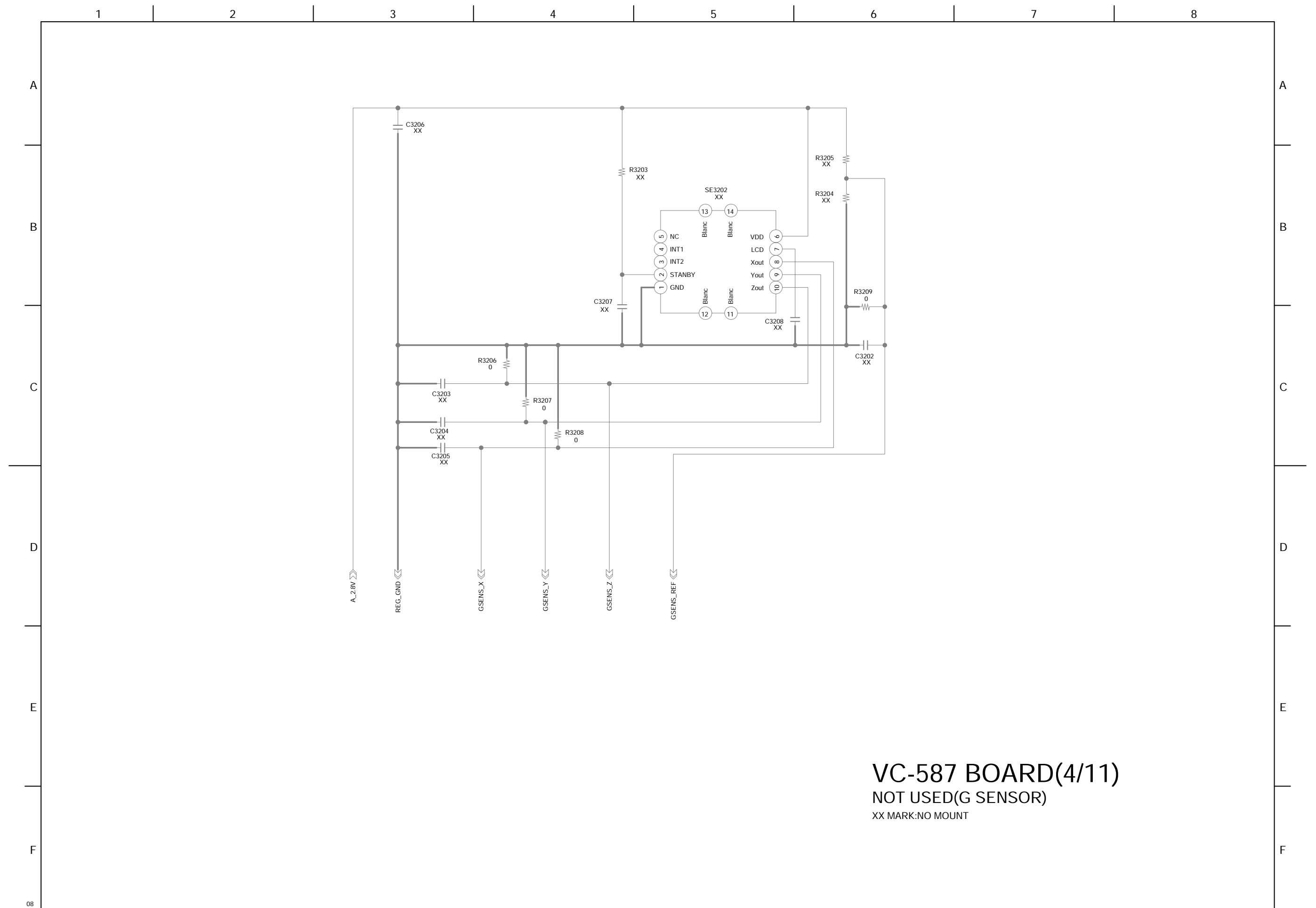


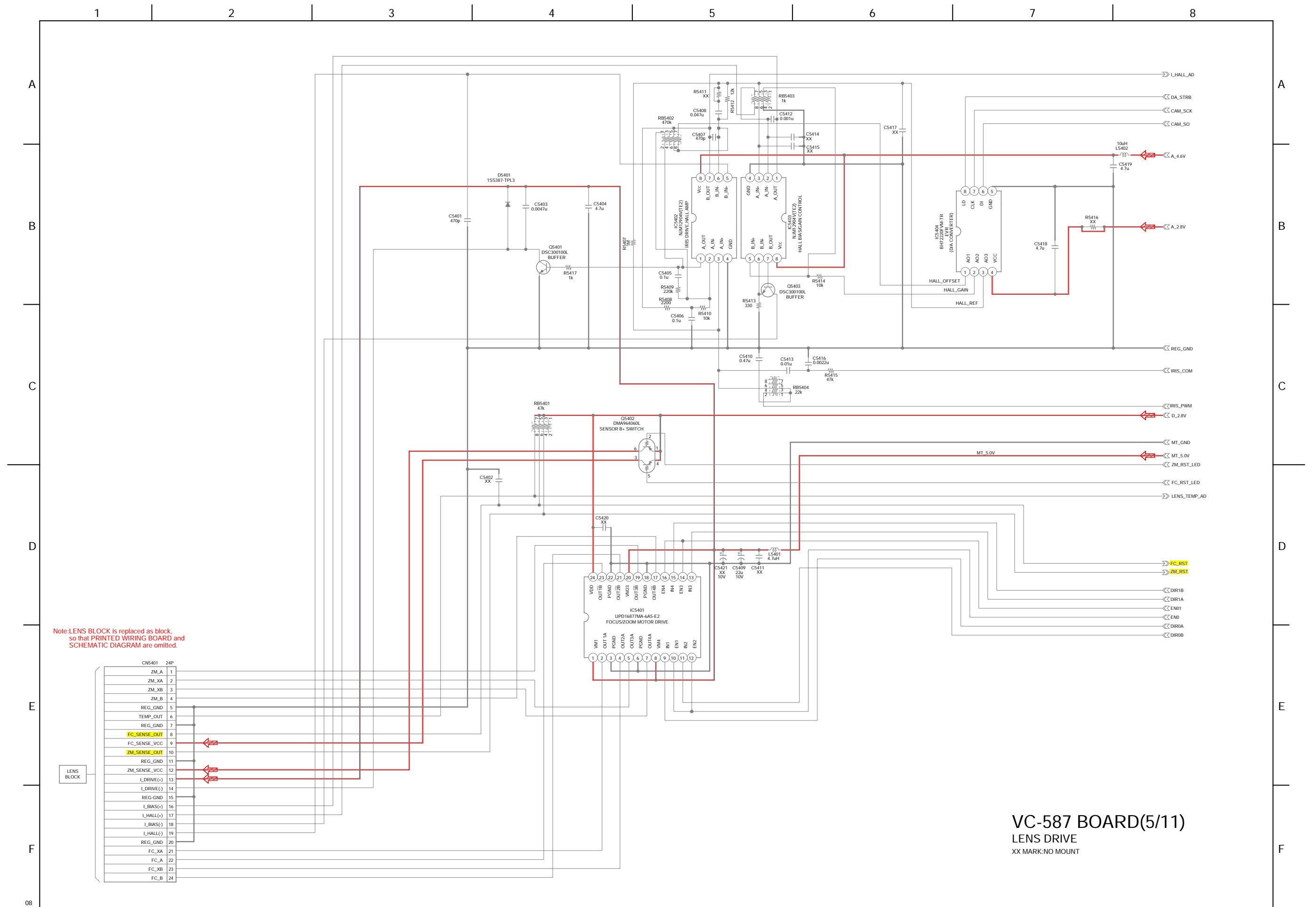


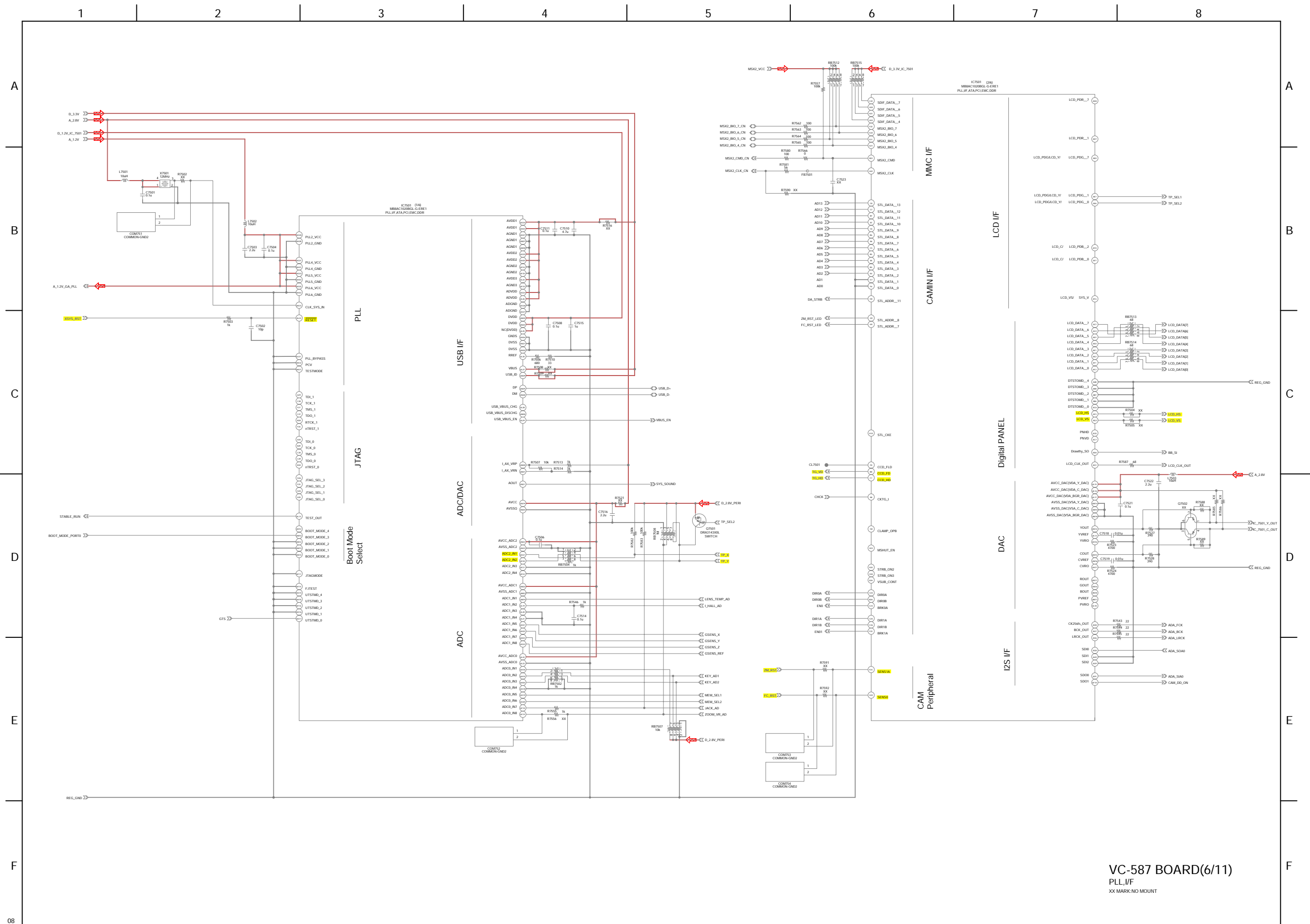


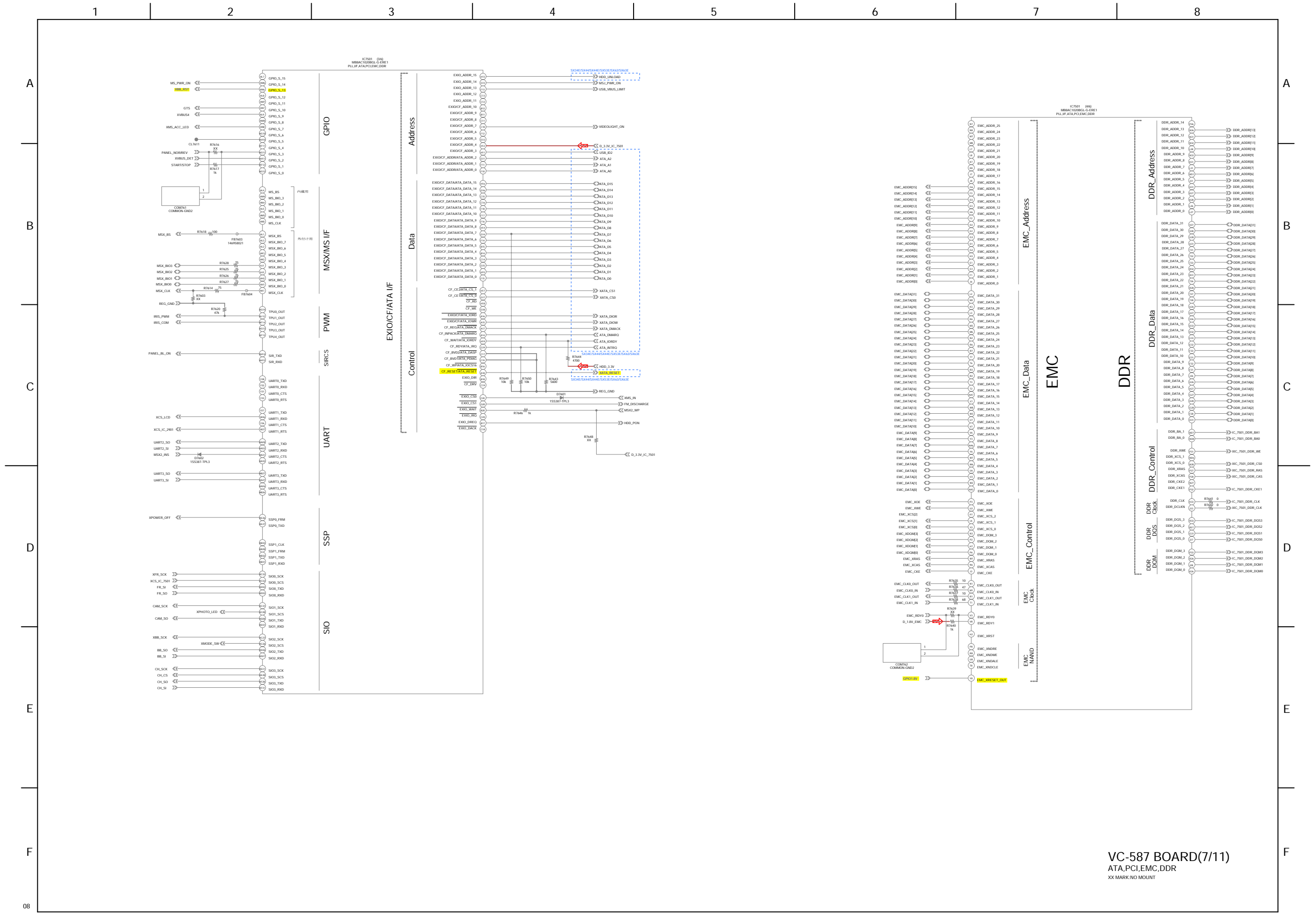




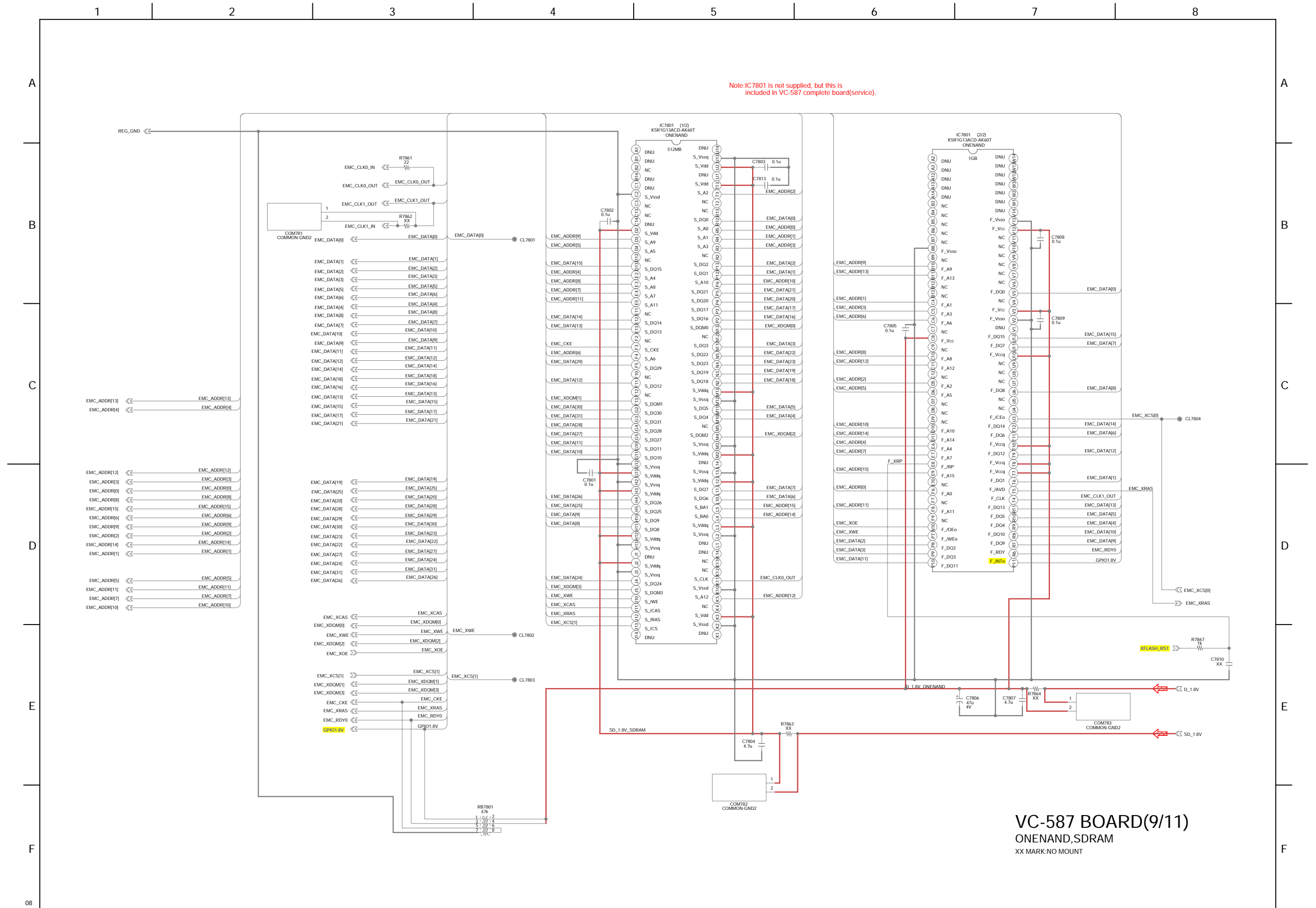


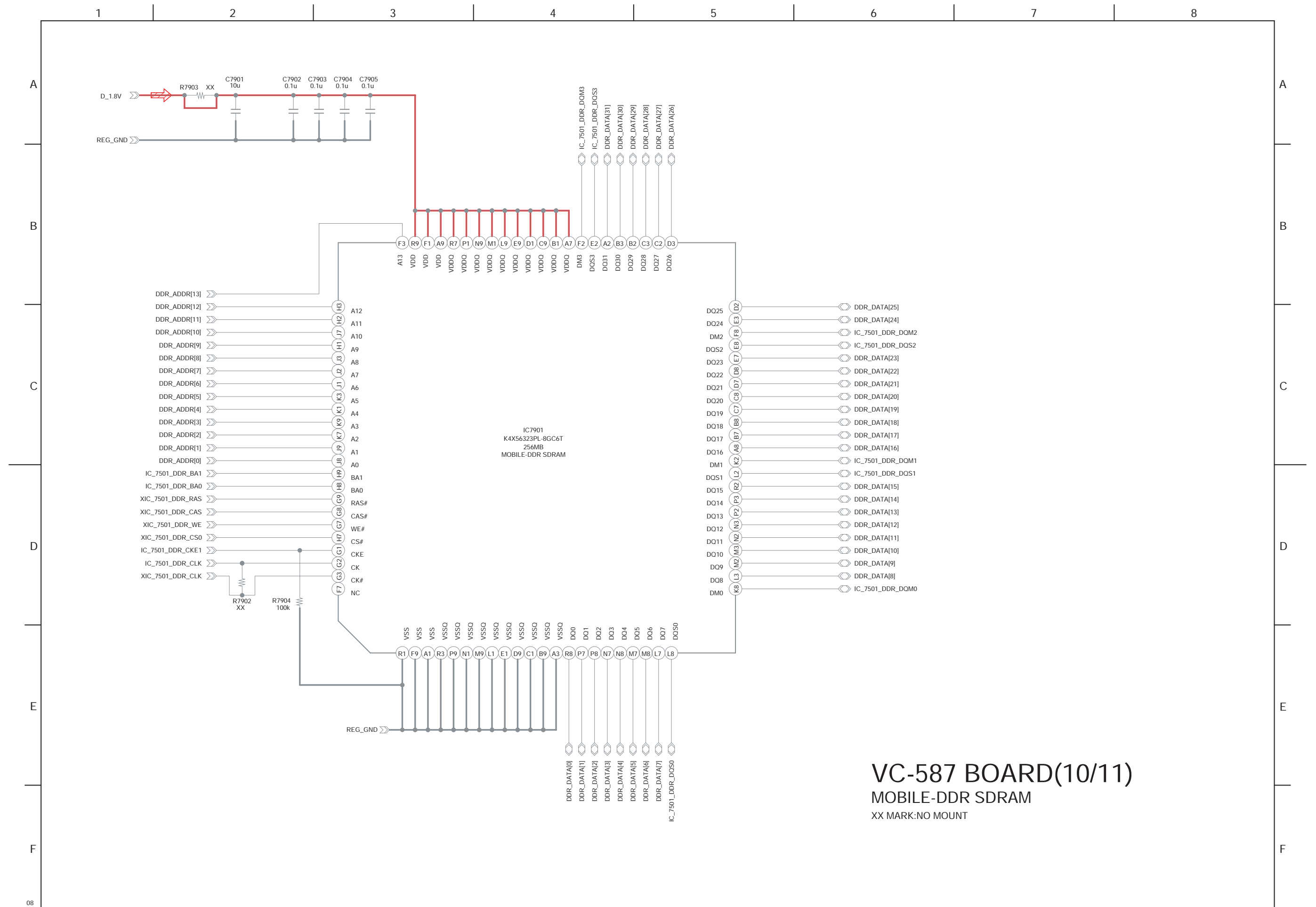


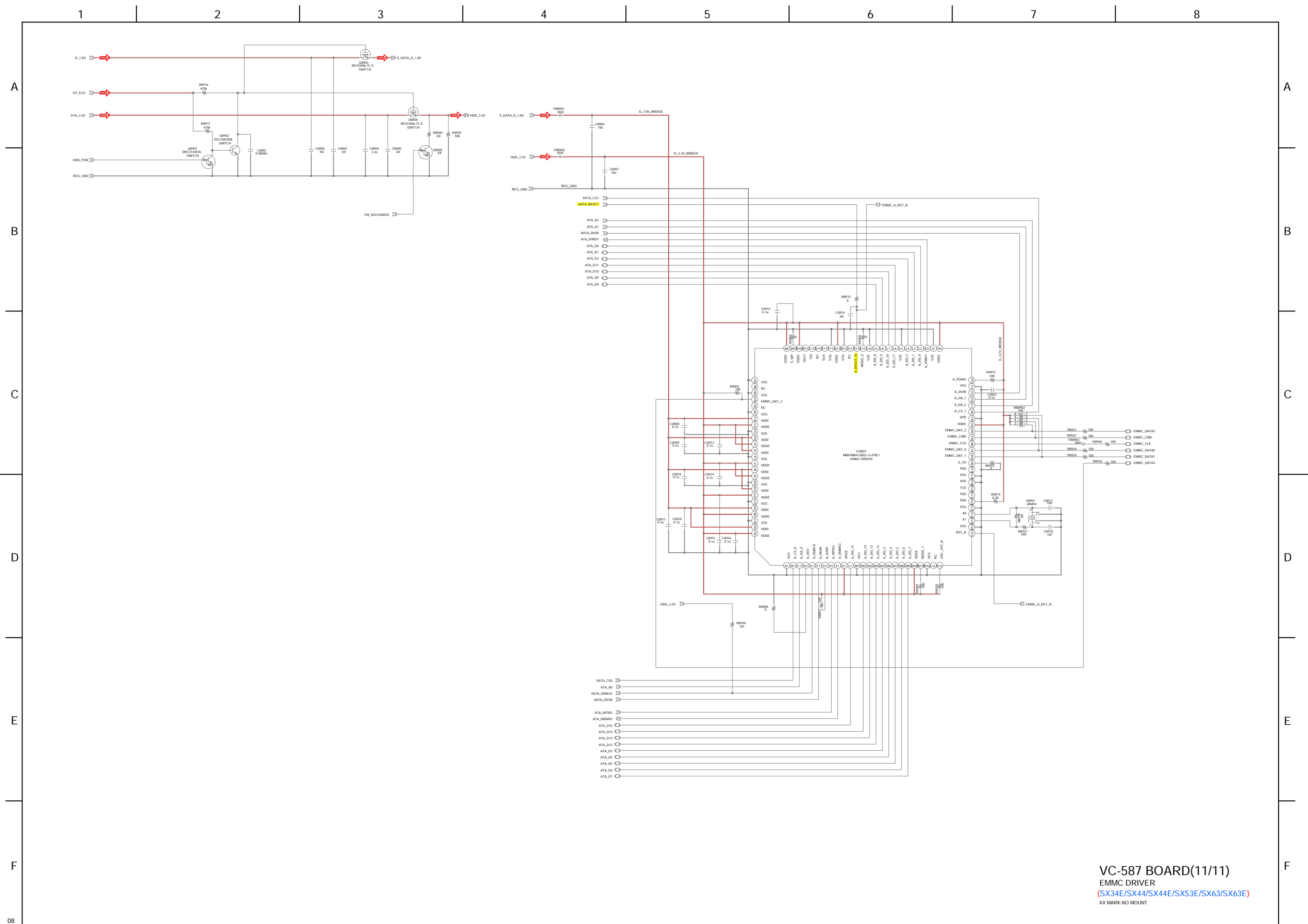




VC-587 BOARD(7/11)
ATA,PCI,EMC,DDR
XX MARK:NO MOUNT

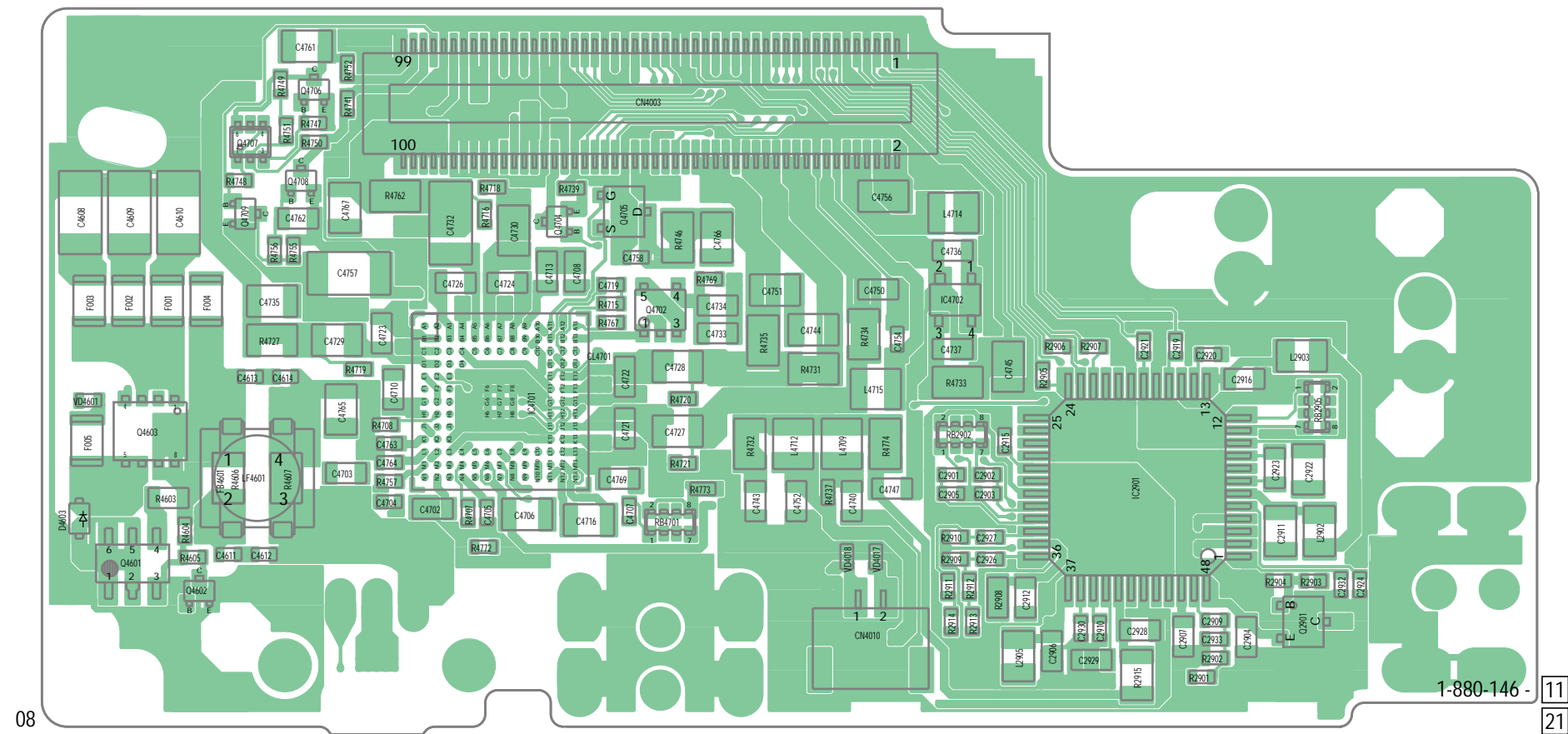






6-2. PRINTED WIRING BOARDS

DA-049 BOARD (SIDE A)





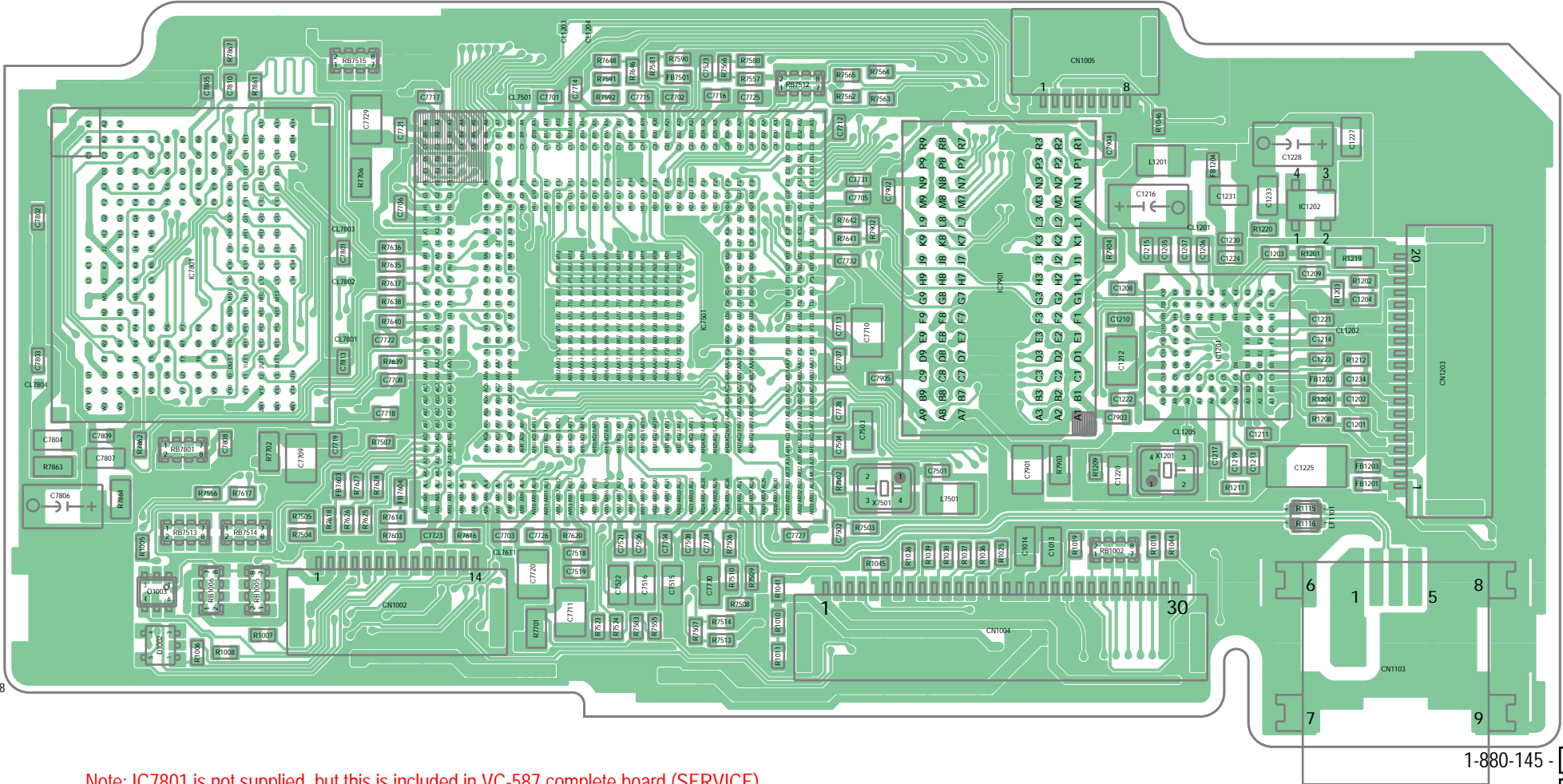
Caution
 Danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type.
 Dispose of used batteries according to the instructions.

Note: Replace the battery holder (BH7301) together when replacing the lithium battery (BT7301) on the MS-428 board. (The battery holder removed once cannot be used again.)
When mounting these parts, mount new battery holder first and attach new lithium battery next.



Note:BT7301 is not included in MS-428 complete board.

VC-587 BOARD (SIDE A)



Note: IC7801 is not supplied, but this is included in VC-587 complete board (SERVICE).



(USB)

