

DSLR-A100

SERVICE MANUAL

LEVEL 3

Ver 1.0 2006.06

Revision History

How to use
Acrobat Reader



*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Japanese Model
Tourist Model*

Link

• SERVICE NOTE

• PRINTED WIRING BOARDS

• REPAIR PARTS LIST

• SCHEMATIC DIAGRAMS

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

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

DIGITAL SINGLE LENS REFLEX CAMERA

SONY[®]

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1. SERVICE NOTE

1-1. CHEMICALS

Some chemicals used for servicing are highly volatile.

Their evaporation caused by improper management affects your health and environment, and wastes resources.

Manage the chemicals carefully as follows.

- Store chemicals sealed in a specific place to prevent from exposure to high temperature or direct sunlight.
- Avoid dividing chemicals into excessive numbers of small containers to reduce natural evaporation.
- Keep containers sealed to avoid natural evaporation when chemicals are not in use.
- Avoid using chemicals as much as possible. When using chemicals, divide only required amount to a small plate from the container and use up it.

1-2. EXTERIOR PARTS

Be careful to the following points for plastic parts used in this unit.

- Use a piece of cleaning paper or cleaning cloth for cleaning plastic parts. Avoid using chemicals. Even if you have to use chemicals to clean heavy dirt, don't use paint thinner, ketone, nor alcohol.
- Insert the specific screws vertically to the part when installing a plastic part. Be careful not to tighten screws too much.

1-3. UNLEADED SOLDER

This unit uses unleaded solder.

Boards requiring use of unleaded solder are printed with the lead free 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

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
If cannot control temperature, solder/unsolder at high temperature for a short time.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
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.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

1-4. 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.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

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!

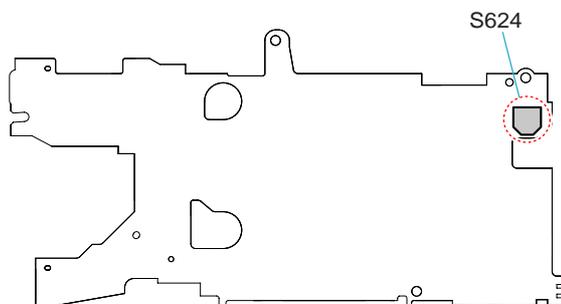
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

1-5. NOTE FOR REPLACING FUSE ON THE AM-001 BOARD

The caution label for fuse replacing on the AM-001 board is put under the DD-268 board. When replacing the fuse, remove the DD-268 board and refer to this label.

1-6. DEMAGNETIZATION METHOD

It is easy to receive the influence of the outside magnetism because the slant sensor switch (S624) has the magnet in the inside. Horizontal and vertical cannot be detected when the influence of magnetism is received, and the display of the LCD panel doesn't change. Therefore, it is necessary to degauss the screw in the vicinity of the switch.



– AM-001 Board: Side B –

Note it because the user magnetizes set occasionally.

Refer to next page for the demagnetization method.

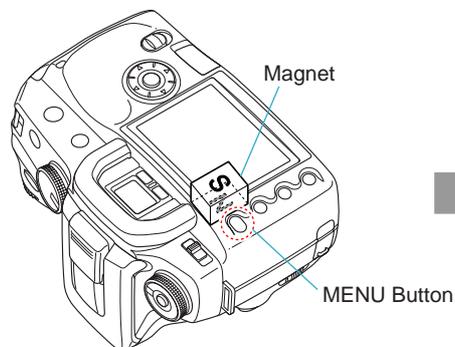
Tools to be prepared:

Magnet (cover with a tape, etc. for damage prevention)

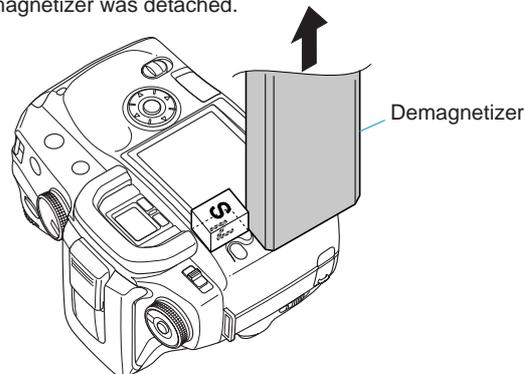
Demagnetizer

STEP 1:

Push a magnet to the right side of MENU button to demagnetize.

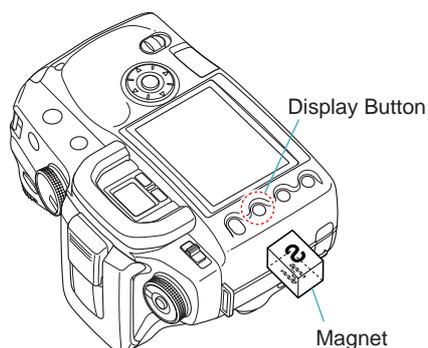


In the state shown below, operate the demagnetizer for 5 seconds, and with the demagnetizer operated, detach it in the arrow direction. At this time, hold the magnet in same position, and remove it after the demagnetizer was detached.

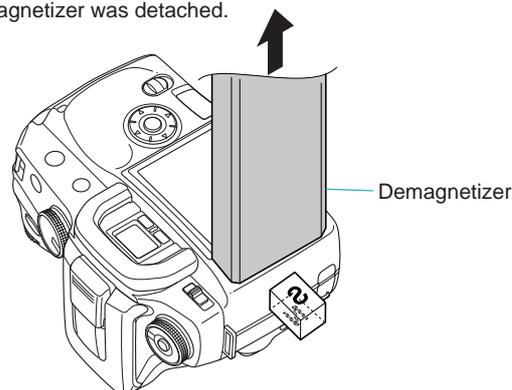


STEP 2:

Push a magnet to the side of Display button (side surface of the camera) to demagnetize.

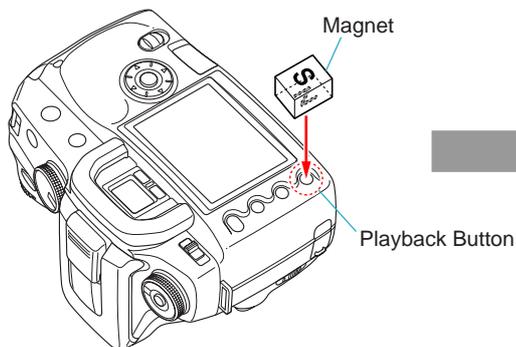


In the state shown below, operate the demagnetizer for 5 seconds, and with the demagnetizer operated, detach it in the arrow direction. At this time, hold the magnet in same position, and remove it after the demagnetizer was detached.

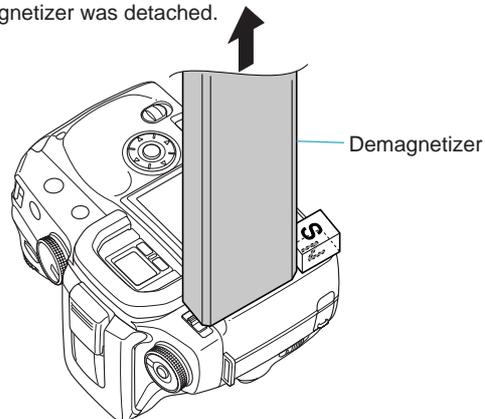


STEP 3:

Push a magnet over the Playback button to demagnetize.



In the state shown below, operate the demagnetizer for 5 seconds, and with the demagnetizer operated, detach it in the arrow direction. At this time, hold the magnet in same position, and remove it after the demagnetizer was detached.



• **SLANT SENSOR SWITCH OPERATION INSPECTION**

Using the camera already demagnetized, perform the posture switching by five sets, one set comprising “normal posture → Grip up → Grip down”, to confirm that the LCD display changes over correctly.

4-2. SCHEMATIC DIAGRAMS

Link

<ul style="list-style-type: none">• AM-001 BOARD (1/5) (CAMERA DSP)	<ul style="list-style-type: none">• AM-001 BOARD (4/5) (ANTI-SHAKE)
<ul style="list-style-type: none">• AM-001 BOARD (2/5) (FLASH MEMORY, SDRAM)	<ul style="list-style-type: none">• AM-001 BOARD (5/5) (CONNECTOR)
<ul style="list-style-type: none">• AM-001 BOARD (3/5) (MAIN/SUB CPU)	

<ul style="list-style-type: none">• COMMON NOTE FOR SCHEMATIC DIAGRAMS
--

4-2. SCHEMATIC DIAGRAMS

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

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

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F} : 50\text{V}$ or less are not indicated except for electrolytics and tantalums.
- Chip resistors are $1/10\text{W}$ 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 \triangle	<u>2520</u>
Kinds of capacitor	Case size	External dimensions (mm)

- 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 \star 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 \rightarrow $\overline{\text{EDIT}}$ PB/XREC \rightarrow $\overline{\text{PB/REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+,-) B LINE.
- : adjustment for repair.
- : not use circuit

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.

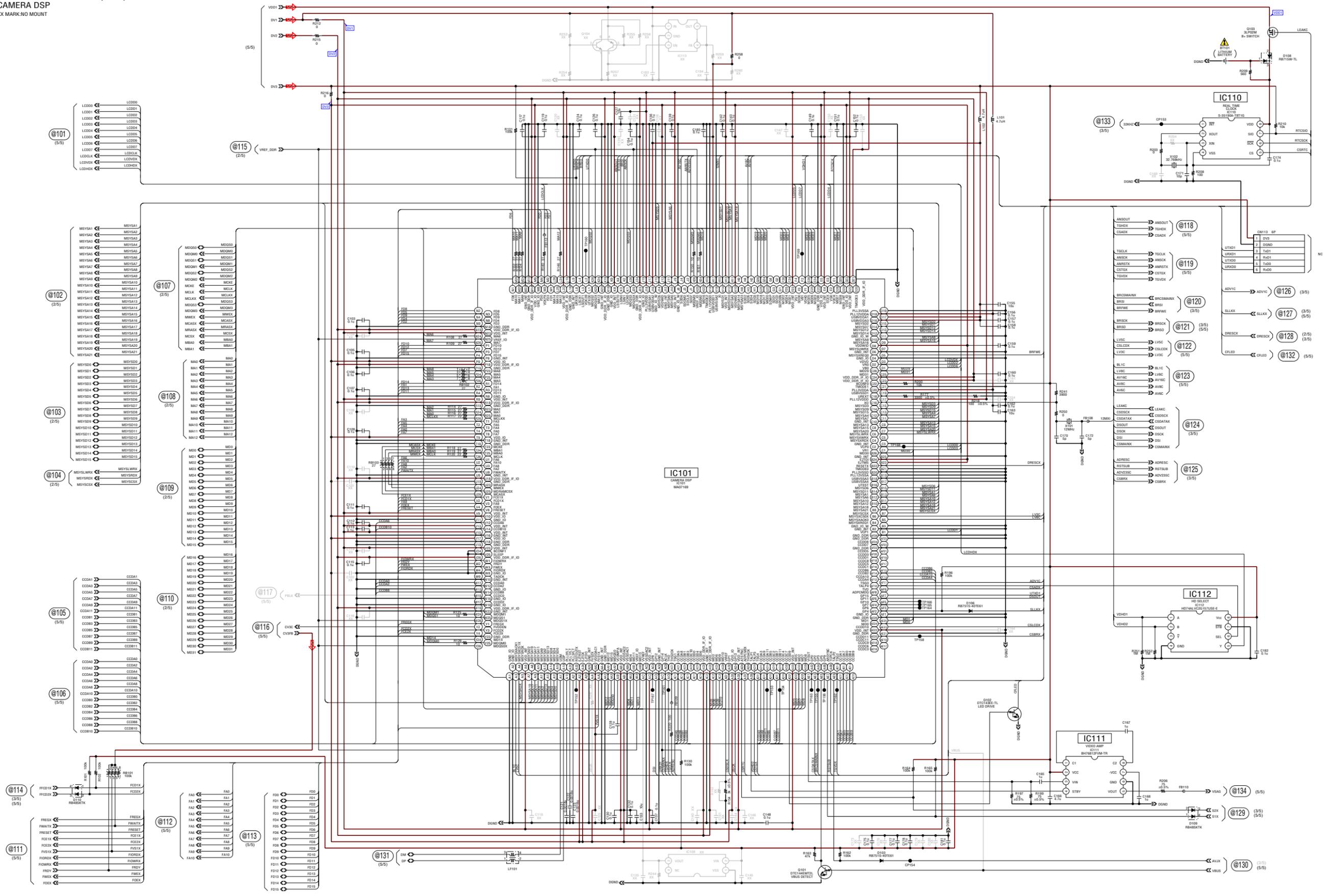
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
 Replace only with part number specified.

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

A AM-001 BOARD (1/5)
CAMERA DSP
XX MARK-NO MOUNT

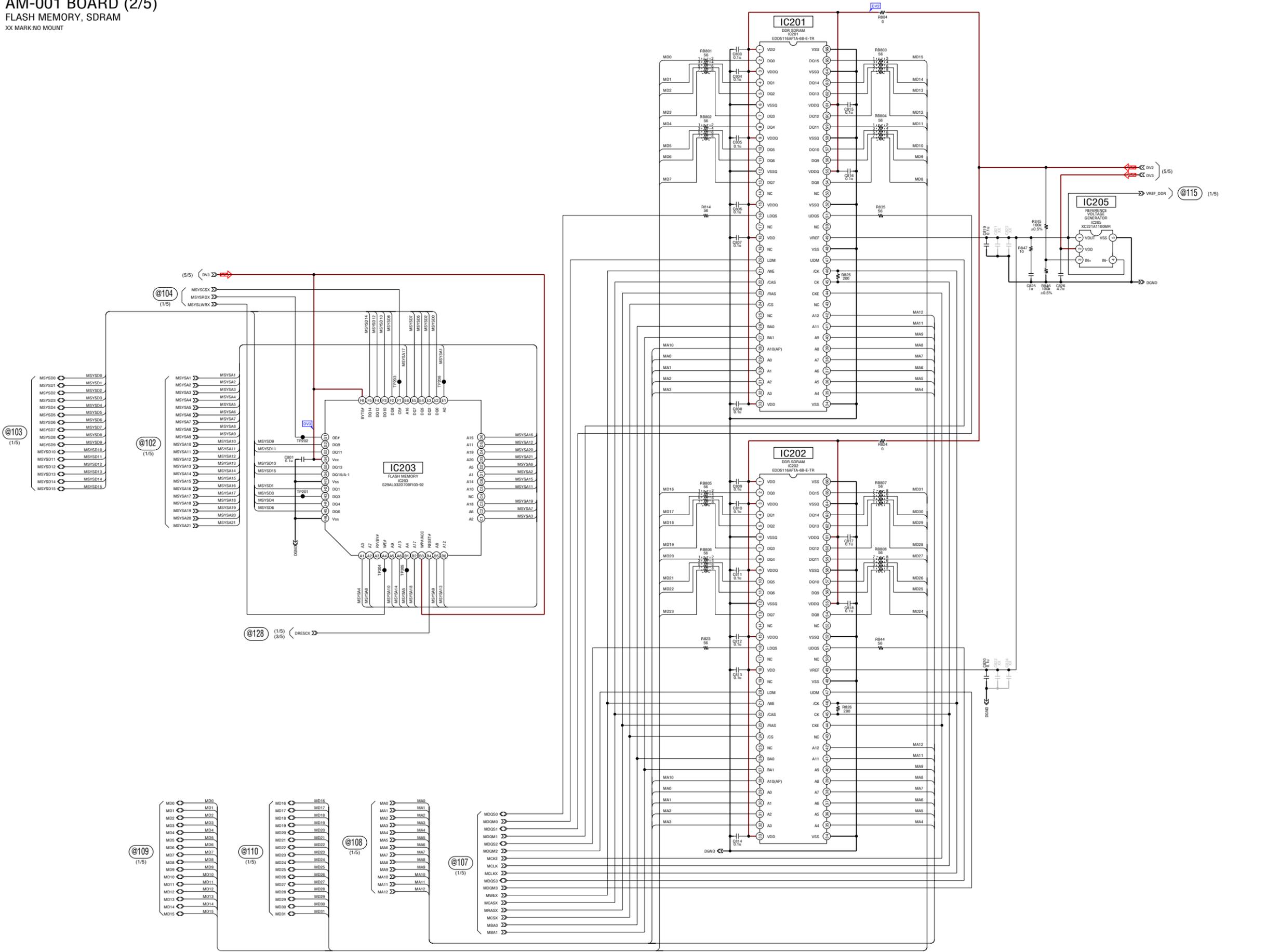
B
C
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R

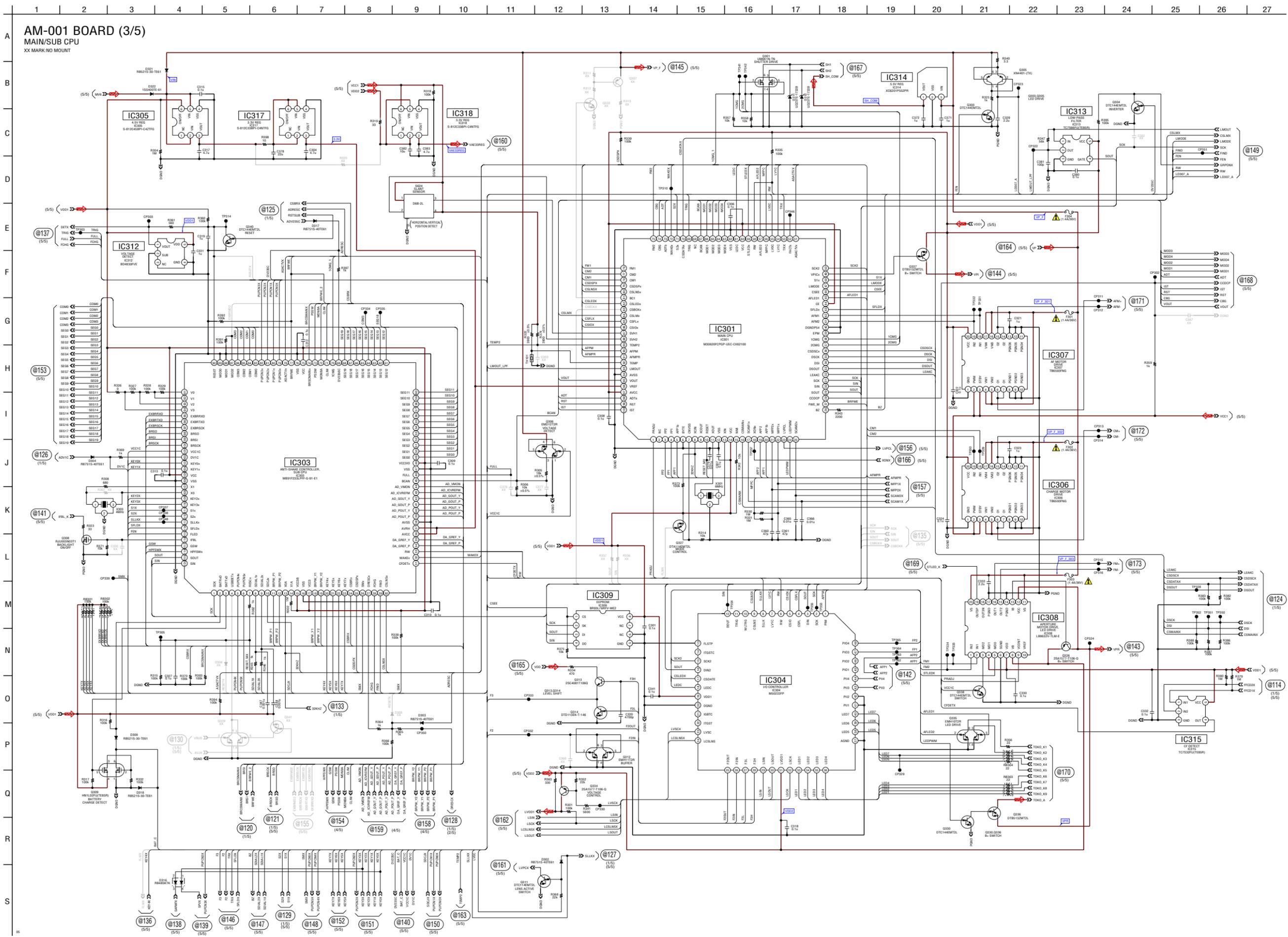
95



AM-001 BOARD (2/5)
FLASH MEMORY, SDRAM
XX MARK:NO MOUNT

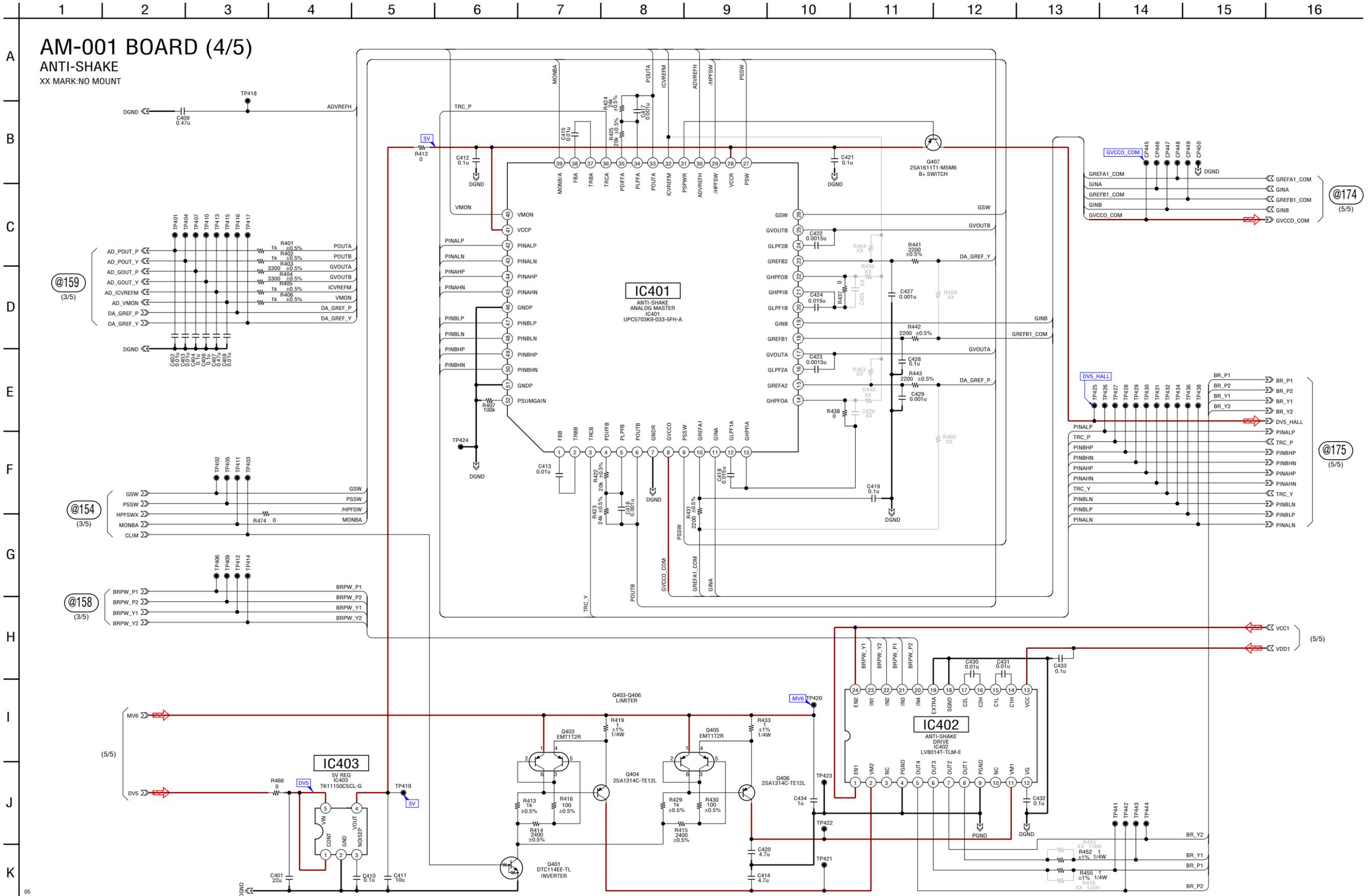
A
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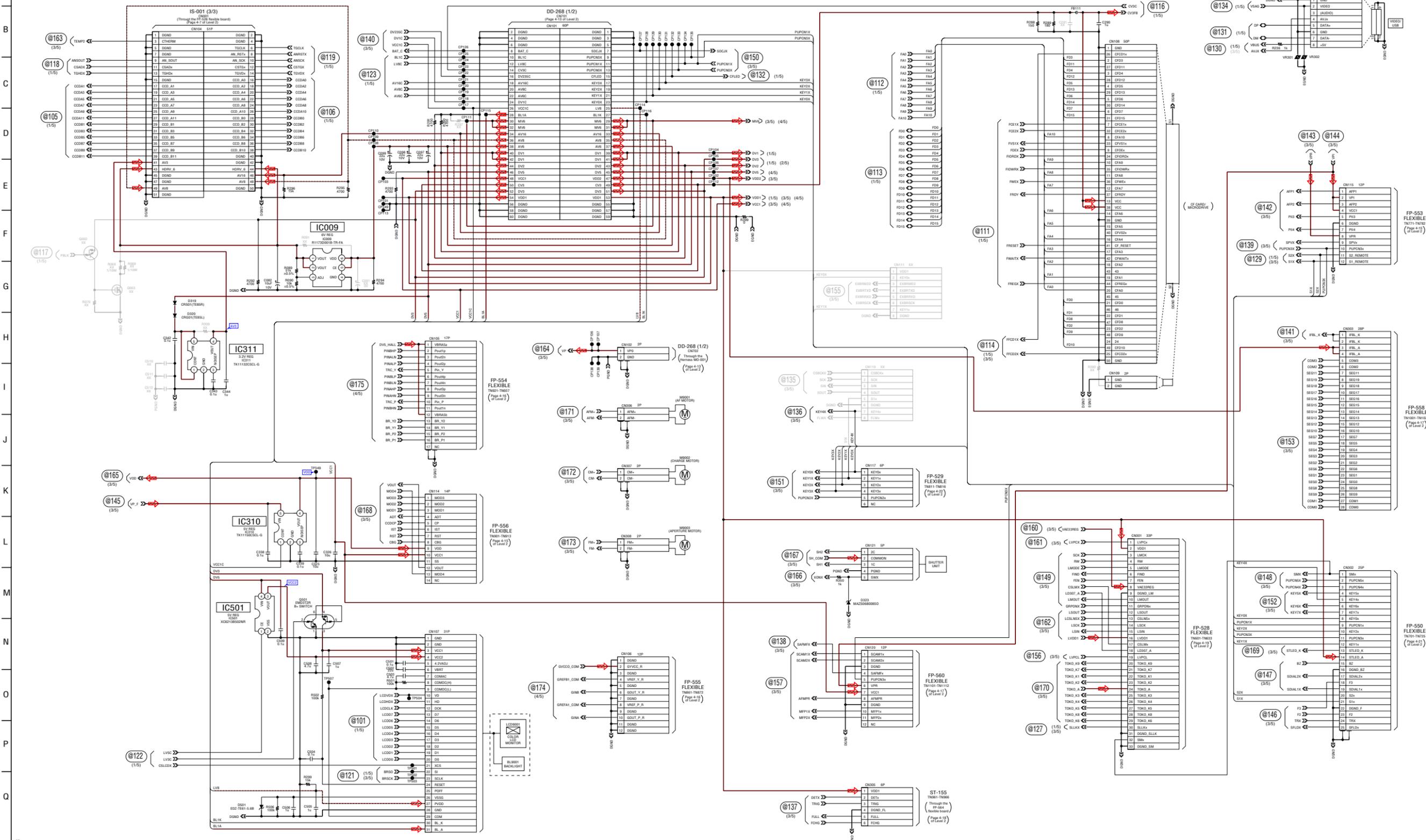


AM-001 BOARD (4/5)

ANTI-SHAKE
XX MARK:NO MOUNT



AM-001 BOARD (5/5)
CONNECTOR
XX MARK-NO MOUNT



4-3. PRINTED WIRING BOARDS

Link

• [AM-001 BOARD \(SIDE A\)](#)

• [AM-001 BOARD \(SIDE B\)](#)

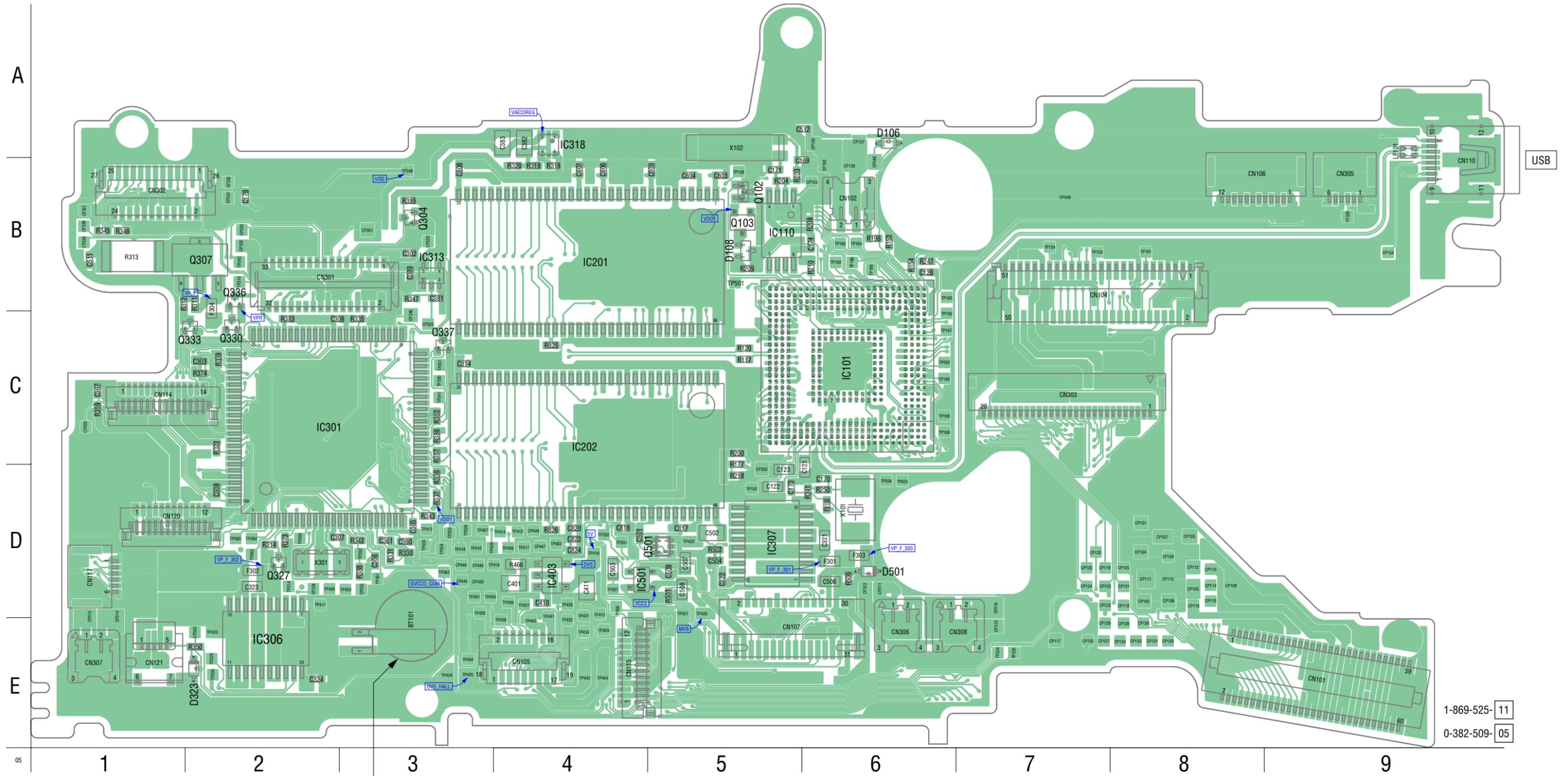
• [COMMON NOTE FOR PRINTED WIRING BOARDS](#)

• [MOUNTED PARTS LOCATION](#)

AM-001 (8 layers)

 : Uses unleaded solder.

AM-001 BOARD (SIDE A)



BT101
BATTERY,
LITHIUM SECONDARY

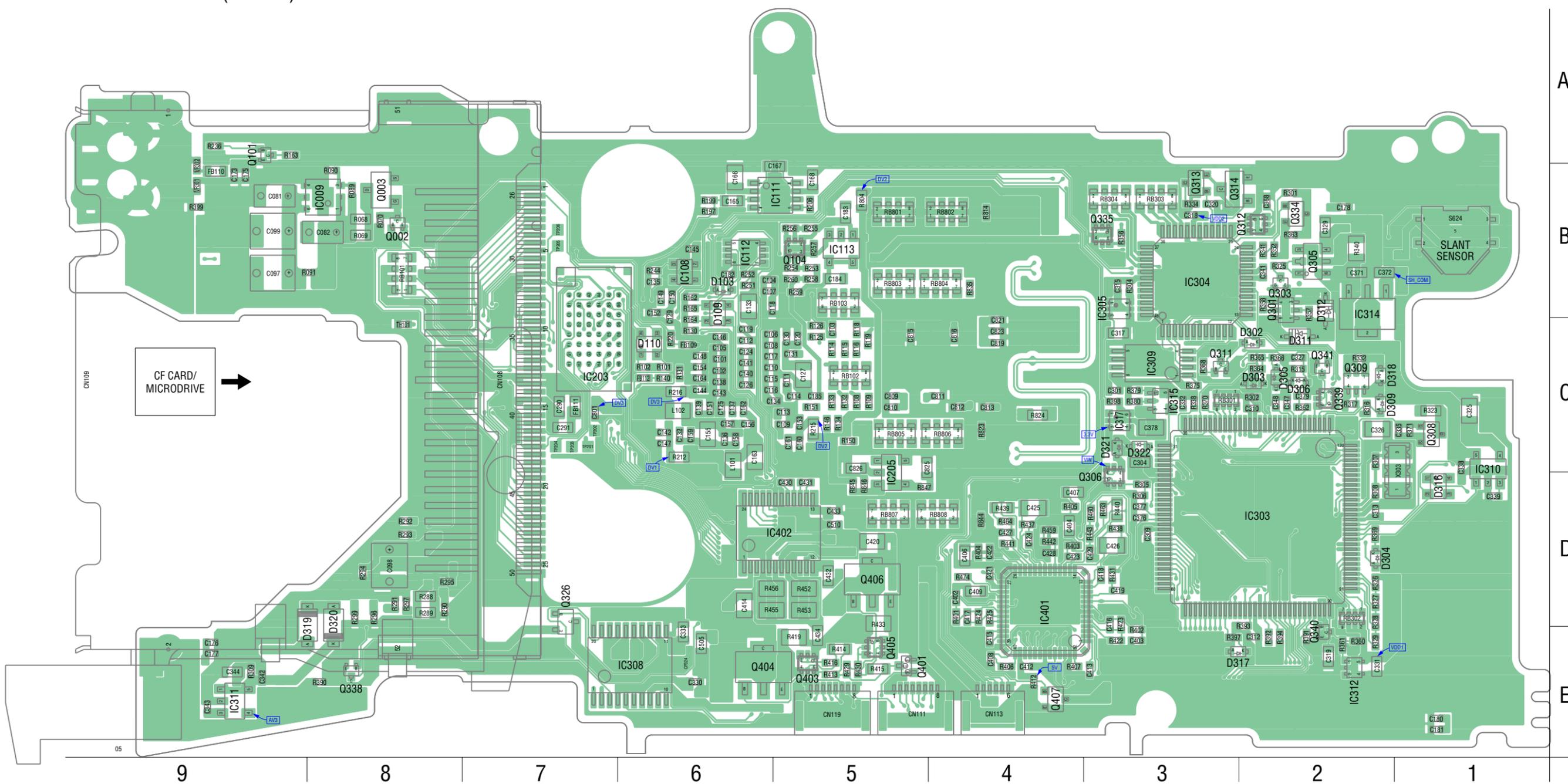
1-869-525-11
0-382-509-05

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

AM-001 (8 layers)

 : Uses unleaded solder.

AM-001 BOARD (SIDE B)



1-869-525-11
0-382-509-05

4-3. PRINTED WIRING BOARDS

4-4. MOUNTED PARTS LOCATION

no mark : side A
* mark : side B

AM-001 BOARD

BT101	E-3	* C332	C-3	CN101	E-9		* R251	B-6	* R404	D-4	
		* C333	E-6	CN102	B-6	* L101	C-6	* R252	B-6	* R405	D-4
* C082	B-8	* C338	C-1	CN104	B-7	* L102	C-6	* R258	B-5	* R406	E-4
* C097	B-9	* C339	D-1	CN105	E-4			* R288	D-8	* R407	E-4
* C098	D-8	* C341	B-2	CN106	B-8	LF101	A-9	* R289	D-8	* R412	E-4
* C099	B-9	* C342	E-9	CN107	E-5			* R290	D-8	* R413	E-5
* C103	C-5	* C343	E-9	* CN108	C-7	* Q101	A-9	* R291	D-8	* R414	E-5
* C105	C-6	* C344	E-9	* CN109	C-9	Q102	B-5	* R292	D-8	* R415	E-5
* C106	C-6	* C347	C-2	CN110	B-9	Q103	B-5	* R293	D-8	* R416	E-5
* C107	B-6	* C348	C-2	* CN113	E-4	* Q301	B-2	* R294	D-8	* R419	E-5
* C109	C-5	C360	D-3	CN114	C-1	* Q303	B-2	* R295	D-8	* R422	E-3
* C111	C-5	C361	D-3	CN115	E-4	* Q304	B-3	* R296	D-8	* R423	D-3
* C112	C-6	C365	D-3	CN117	D-1	* Q305	B-2	* R299	D-8	* R424	D-4
* C113	C-5	C366	D-3	CN120	D-1	* Q306	D-3	* R301	B-2	* R425	D-4
* C115	C-6	* C371	B-2	CN121	E-1	* Q308	C-1	* R302	C-2	* R429	E-5
* C117	C-6	* C372	B-2	CN301	B-2	* Q309	C-2	* R304	B-3	* R430	E-5
* C119	C-6	* C378	C-3	CN302	B-1	* Q311	C-3	* R305	D-3	* R431	D-3
* C121	D-6	* C379	C-2	CN303	C-7	* Q312	B-2	* R306	D-3	* R433	D-5
C122	D-5	C380	B-3	CN305	B-9	* Q313	B-3	* R308	D-2	* R437	D-4
C123	D-5	C381	B-3	CN306	E-6	* Q314	B-3	R314	D-2	* R438	D-3
* C124	C-6	C382	A-4	CN307	E-1	* Q326	D-7	* R315	C-2	* R441	D-4
* C126	C-6	C383	A-4	CN308	E-7	Q327	D-2	* R316	C-2	* R442	D-4
* C127	C-5	C401	D-4			Q330	C-2	* R317	C-2	* R443	D-3
C128	B-6	* C402	D-4	* D103	B-6	* Q334	B-2	R318	B-4	* R452	D-5
* C130	C-5	* C403	E-3	D106	A-6	* Q335	B-3	R319	B-4	* R455	D-6
* C132	C-6	* C404	D-4	D108	B-5	Q336	B-2	R322	C-2	R466	D-4
* C133	B-6	* C406	D-4	* D109	B-6	* Q337	C-3	* R323	C-1	* R474	D-4
* C134	C-5	* C407	D-4	* D110	C-6	* Q338	E-8	* R325	B-2	R501	D-5
* C136	C-6	* C408	E-4	* D302	C-2	* Q340	E-2	* R326	D-2	R502	D-5
* C137	C-6	* C409	D-4	* D303	C-2	* Q401	E-5	* R327	D-2	R506	D-6
* C139	C-6	C410	D-4	* D304	D-2	* Q403	E-5	* R328	D-2	* R804	B-5
* C142	C-6	C411	D-4	* D309	C-2	* Q404	E-6	* R329	E-2	* R814	B-4
* C143	C-6	* C412	E-4	* D311	C-2	* Q405	E-5	R330	D-3	* R823	C-4
* C148	C-6	* C413	E-3	* D312	B-2	* Q406	D-5	R331	D-3	* R824	C-4
* C149	B-6	* C414	D-6	* D316	D-1	* Q407	E-4	* R332	C-2	R825	C-4
* C151	C-6	* C415	E-4	* D317	E-3	Q501	D-5	* R334	B-3	R826	D-4
* C152	B-6	* C416	D-3	* D318	C-2			R335	C-3	* R835	B-4
* C155	C-6	* C417	D-4	* D319	D-8	* R089	B-8	* R338	C-3	* R844	D-4
* C156	C-6	* C418	D-3	* D320	D-8	* R090	B-8	* R339	C-2	* R845	D-5
* C157	C-6	* C419	D-3	* D321	C-3	* R101	C-6	* R340	B-2	* R846	D-5
* C158	C-6	* C420	D-5	* D322	C-3	* R102	C-6	* R341	B-2	* R847	D-5
* C159	C-6	* C421	D-4	D323	E-2	* R108	C-5	R342	D-3		
* C160	C-5	* C422	D-4	D501	D-6	* R109	C-5	R343	D-3	* RB101	B-8
* C162	C-6	* C423	D-4			* R114	C-5	R345	B-1	* RB102	C-5
* C163	C-6	* C424	D-4	F301	D-6	* R115	C-5	R346	B-1	* RB103	B-5
* C165	B-6	* C427	D-4	F302	D-2	* R116	C-5	R347	B-3	* RB301	C-3
* C166	B-6	* C428	D-4	F303	D-6	R117	C-5	R350	E-2	* RB302	D-2
* C167	B-5	* C429	D-3	F304	B-2	* R118	C-5	* R352	B-2	* RB303	B-3
* C168	B-5	* C430	D-5			* R119	C-5	* R356	B-3	* RB304	B-3
C170	D-6	* C431	D-5	FB108	D-6	R120	C-5	* R357	B-2	* RB801	B-5
C171	B-5	* C432	D-5	* FB109	C-6	* R125	C-5	* R358	B-2	* RB802	B-4
C172	D-5	* C433	D-5	* FB110	B-9	* R126	C-5	R359	C-1	* RB803	B-5
C174	B-6	* C434	E-5	* FB111	C-7	* R130	C-6	* R360	E-2	* RB804	B-4
* C175	B-9	C501	D-4	* FB112	C-6	* R131	C-6	* R361	E-2	* RB805	C-5
* C177	E-9	C502	D-5			* R132	C-5	* R362	C-2	* RB806	C-4
* C178	B-2	C503	D-4	* IC009	B-8	* R133	C-5	* R363	B-2	* RB807	D-5
* C181	E-1	C504	D-5	IC101	C-6	* R134	C-5	* R364	C-2	* RB808	D-4
* C182	B-6	* C505	E-6	IC110	B-5	* R140	C-6	* R365	C-2		
* C185	C-5	C506	D-6	* IC111	B-5	* R146	C-5	* R366	C-2	* S624	B-1
* C290	C-7	C507	D-5	* IC112	B-6	* R150	C-5	* R368	C-3		
* C301	C-3	C508	D-5	IC201	B-4	* R151	C-5	* R369	D-2	* TH101	C-8
* C304	C-3	C509	D-5	IC202	C-4	R154	B-6	* R370	C-3		
C306	C-2	* C801	C-7	* IC203	C-7	* R162	B-6	* R371	C-1	* VR301	B-9
C307	D-2	C803	B-5	* IC205	D-5	* R163	A-9	R373	D-2	* VR302	B-9
C308	D-2	C804	B-5	IC301	C-2	* R164	C-6	R374	C-2		
* C309	D-3	C805	B-5	* IC303	D-2	* R165	B-6	* R375	C-3	X101	D-6
* C310	C-2	C806	B-4	* IC304	B-3	R177	D-5	* R379	C-3	X102	A-5
* C312	E-2	C807	B-4	* IC305	B-3	R196	B-6	* R380	C-3	X301	D-2
* C313	D-2	C808	B-3	IC306	E-2	* R197	B-6	R382	C-3	* X303	C-1
* C315	B-3	* C809	C-5	IC307	D-5	* R199	B-6	R383	C-2		
* C317	C-3	* C810	C-5	* IC308	E-6	R200	C-5	R386	C-3		
* C318	B-3	* C811	C-4	* IC309	C-3	R203	B-5	R387	C-3		
* C319	E-2	* C812	C-4	* IC310	C-1	* R206	B-5	R388	D-3		
* C320	B-3	* C813	C-4	* IC311	E-9	R208	B-6	* R391	E-2		
C321	D-6	C814	C-3	* IC312	E-2	R209	B-5	* R392	E-2		
C322	D-5	* C815	C-5	IC313	B-3	R210	B-6	* R393	D-2		
C323	D-2	* C816	C-4	* IC314	B-2	* R212	C-6	* R394	E-2		
C324	E-2	C817	D-5	* IC315	C-3	* R215	C-5	R395	B-3		
* C325	C-1	C818	D-4	* IC317	C-3	* R216	C-6	* R397	E-3		
* C326	C-2	* C819	C-4	IC318	A-4	R218	D-5	* R398	C-3		
* C327	C-2	C820	D-4	* IC401	D-4	* R220	C-6	* R399	B-9		
* C329	B-2	* C825	C-5	* IC402	D-5	* R236	A-9	* R401	D-4		
* C330	E-6	* C826	C-5	IC403	D-4	R241	D-6	* R402	E-3		
* C331	E-2			IC501	D-4	R250	D-6	* R403	D-4		

5. REPAIR PARTS LIST

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 required 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: μ F
- COILS
uH: μ H
- 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...: μ A... , uPA... , μ PA... ,
uPB... , μ PB... , μ PC... , μ PC... ,
uPD... , μ PD...
- Abbreviation
AR : Argentine model
AUS : Australian model
BR : Brazilian model
CH : Chinese model
CND : Canadian model
EE : East European model
HK : Hong Kong model
J : Japanese model
JE : Tourist model
KR : Korea model
NE : North European model
TW : Taiwan model

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.

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-1183-654-A	AM-001 BOARD, COMPLETE *****
	2-688-850-01	SHEET (A), FUSE
	2-696-911-01	SHEET, EMC
		< BATTERY >
△* BT101	1-756-566-11	BATTERY, LITHIUM SECONDARY
		< CAPACITOR >
C082	1-114-223-91	TANTAL. CHIP 10uF 20% 10V
C097	1-128-694-11	TANTAL. CHIP 22uF 20% 10V
C098	1-128-694-11	TANTAL. CHIP 22uF 20% 10V
C099	1-128-694-11	TANTAL. CHIP 22uF 20% 10V
C103	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C105	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C106	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C107	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C109	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C111	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C112	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C113	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C115	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C117	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C119	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C121	1-162-977-11	CERAMIC CHIP 0.0018uF 10% 50V
C122	1-162-977-11	CERAMIC CHIP 0.0018uF 10% 50V
C123	1-162-977-11	CERAMIC CHIP 0.0018uF 10% 50V
C124	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C126	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C127	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C128	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C130	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C132	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C133	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C134	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C136	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C137	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C139	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C142	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C143	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C148	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C149	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C151	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C152	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C155	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C156	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C157	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C158	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C159	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C160	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C162	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C163	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C165	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C166	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C167	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V

Ref. No.	Part No.	Description
C168	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C170	1-164-845-11	CERAMIC CHIP 5PF 0.25PF 50V
C171	1-164-850-11	CERAMIC CHIP 10PF 0.5PF 50V
C172	1-164-845-11	CERAMIC CHIP 5PF 0.25PF 50V
C174	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C175	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C177	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C178	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C181	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C182	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C185	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C290	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C301	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C304	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
C306	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C307	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C308	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C309	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C310	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C312	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C313	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C315	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C317	1-112-746-11	CERAMIC CHIP 4.7uF 10% 6.3V
C318	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C319	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C320	1-100-581-81	CERAMIC CHIP 4700PF 10% 50V
C321	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C322	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C323	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C324	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C325	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C326	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C327	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C329	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V
C330	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C331	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C332	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C333	1-100-742-91	CERAMIC CHIP 2.2uF 20% 10V
C338	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C339	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C341	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C342	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C343	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C344	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C347	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
C348	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
C360	1-164-866-11	CERAMIC CHIP 47PF 5% 50V
C361	1-164-866-11	CERAMIC CHIP 47PF 5% 50V
C365	1-164-943-81	CERAMIC CHIP 0.01uF 10% 16V
C366	1-164-943-81	CERAMIC CHIP 0.01uF 10% 16V
C371	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C372	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C378	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C379	1-164-943-81	CERAMIC CHIP 0.01uF 10% 16V
C380	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C381	1-164-931-11	CERAMIC CHIP 100PF 10% 50V

• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description			
C382	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C383	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C401	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C402	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C403	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C406	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C407	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C408	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C409	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C410	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C411	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C412	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C413	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C414	1-100-503-11	CERAMIC CHIP	4.7uF	20%	10V
C415	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C416	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C417	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C418	1-127-988-81	CERAMIC CHIP	15000PF	10%	16V
C419	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C420	1-100-503-11	CERAMIC CHIP	4.7uF	20%	10V
C421	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C422	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C423	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C424	1-127-988-81	CERAMIC CHIP	15000PF	10%	16V
C427	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C428	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C429	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C430	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C431	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C432	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C433	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C434	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C501	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C502	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C503	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C504	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C505	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C506	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C507	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C508	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V
C509	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C801	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C803	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C804	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C805	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C806	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C807	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C808	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C809	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C810	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C811	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C812	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C813	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C814	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C815	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C816	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C817	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V

Ref. No.	Part No.	Description			
C818	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C819	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C820	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C825	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C826	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
< CONNECTOR >					
* CN101	1-820-334-11	CONNECTOR, BOARD TO BOARD 60P			
* CN102	1-820-332-11	HOUSING, CONNECTOR 2P			
* CN104	1-817-283-51	CONNECTOR, FPC (ZIF) 51P			
* CN105	1-820-379-11	CONNECTOR, FPC (ZIF) 17P			
CN106	1-816-644-51	FFC/CONNECTOR, FPC (LIF) 12P			
* CN107	1-820-341-51	CONNECTOR, FPC (ZIF) 31P			
* CN108	1-820-343-11	PIN, CONNECTOR (CF CARD)			
* CN109	1-820-342-11	CONNECTOR, CARD (COMPACT FLASH)			
* CN110	1-820-333-11	MULTI CONNECTOR (REC) 8P (VIDEO/USB)			
* CN113	1-817-554-51	CONNECTOR, FFC/FPC 6P			
* CN114	1-820-437-11	CONNECTOR, FPC (ZIF) 14P			
* CN115	1-820-436-11	CONNECTOR, FPC (ZIF) 12P			
* CN117	1-817-554-51	CONNECTOR, FFC/FPC 6P			
* CN120	1-820-436-11	CONNECTOR, FPC (ZIF) 12P			
* CN121	1-820-331-11	CONNECTOR, FPC (ZIF) 5P			
* CN301	1-820-338-11	CONNECTOR, FPC (ZIF) 33P			
* CN302	1-820-380-11	CONNECTOR, FPC (ZIF) 25P			
* CN303	1-820-337-51	CONNECTOR, FFC/FPC (ZIF) 28P			
* CN305	1-817-554-51	CONNECTOR, FFC/FPC 6P			
* CN306	1-820-332-11	HOUSING, CONNECTOR 2P			
* CN307	1-820-332-11	HOUSING, CONNECTOR 2P			
* CN308	1-820-332-11	HOUSING, CONNECTOR 2P			
< DIODE >					
D103	6-500-275-01	DIODE RB751S-40TE61			
D106	6-500-275-01	DIODE RB751S-40TE61			
D108	8-719-082-45	DIODE RB715W-TL			
D109	8-719-074-08	DIODE MA4ZD03001S0			
D110	8-719-074-08	DIODE MA4ZD03001S0			
D302	6-500-275-01	DIODE RB751S-40TE61			
D303	6-500-275-01	DIODE RB751S-40TE61			
D304	6-500-275-01	DIODE RB751S-40TE61			
D309	8-719-071-34	DIODE RB521S-30-TE61			
D311	8-719-083-85	DIODE UDZSTE-1722B			
D312	8-719-083-85	DIODE UDZSTE-1722B			
D316	8-719-074-08	DIODE MA4ZD03001S0			
D317	6-500-275-01	DIODE RB751S-40TE61			
D318	8-719-071-34	DIODE RB521S-30-TE61			
D319	8-719-085-70	DIODE CRS01 (TE85R)			
D320	8-719-081-83	DIODE CRG01 (TE85L)			
D321	8-719-071-34	DIODE RB521S-30-TE61			
D322	8-719-069-28	DIODE 1SS400TE-61			
D323	8-719-056-54	DIODE MAZS068008S0			
D501	8-719-074-67	DIODE EDZ-TE61-5.6B			
< FUSE >					
△ F301	1-576-406-21	FUSE (1.4A/36V)			
△ F302	1-576-406-21	FUSE (1.4A/36V)			
△ F303	1-576-406-21	FUSE (1.4A/36V)			
△ F304	1-576-406-21	FUSE (1.4A/36V)			

• Refer to page 5-1 for mark △.

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Ref. No.	Part No.	Description
< FERRITE BEAD >		
FB108	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB109	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB110	1-500-444-11	FERRITE, EMI (SMD) (1608)
FB111	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)
FB112	1-400-940-21	INDUCTOR, FERRITE BEAD (1005)
< IC >		
IC009	6-709-976-01	IC R1173D001B-TR-FA
* IC101	6-709-690-01	IC MA07169
* IC110	6-709-666-01	IC S-35190A-T8T1G
IC111	6-707-834-01	IC BH76812FVM-TR
* IC112	6-709-476-01	IC HD74ALVC2G157USE-E
IC201	6-709-558-01	IC EDD5116AFTA-6B-E
IC202	6-709-558-01	IC EDD5116AFTA-6B-E
* IC203	6-806-536-01	IC S29AL032D70BFI03-92
* IC205	6-709-665-01	IC XC221A1100MR
* IC301	6-806-537-01	IC M30620FCPGP-U5C-CX62100
* IC303	6-806-535-01	IC MB91F233LPFF-G-91-E1
* IC304	6-709-676-01	IC M50222FP
* IC305	6-709-668-01	IC S-812C45BPI-C4ZTFG
* IC306	6-709-661-01	IC TB6593FNG
* IC307	6-709-661-01	IC TB6593FNG
* IC308	6-709-658-01	IC LB8632V-TLM-E
* IC309	6-709-674-01	IC BR93L76RFV-WE2
IC310	6-705-337-01	IC TK11150CSCL-G
IC311	6-702-846-01	IC TK11132CSCL-G
IC312	6-704-433-01	IC BD4830FVE
IC313	8-759-082-60	IC TC7S66FU
* IC314	6-709-663-01	IC XC6201P552PR
IC315	8-759-058-64	IC TC7S32FU (TE85R)
* IC317	6-709-667-01	IC S-812C33BPI-C4NFTG
* IC318	6-709-667-01	IC S-812C33BPI-C4NFTG
* IC401	6-709-675-01	IC uPC5703K9-033-5FH-A
* IC402	6-709-659-01	IC LV8014T-TLM-E
IC403	6-705-337-01	IC TK11150CSCL-G
* IC501	6-709-664-01	IC XC6213B502NR
< COIL >		
* L101	1-400-411-21	INDUCTOR 4.7uH
* L102	1-400-411-21	INDUCTOR 4.7uH
< LINE FILTER >		
LF101	1-456-984-11	COIL,COMMONMODECHOKE (SMD1210)
< TRANSISTOR >		
Q101	6-550-119-01	TRANSISTOR DTC144EMT2L
Q102	8-729-928-96	TRANSISTOR DTC143EE
Q103	8-729-048-40	TRANSISTOR 3LP02M
Q301	6-550-008-01	TRANSISTOR UM6K1N-TN
Q303	6-550-119-01	TRANSISTOR DTC144EMT2L
Q304	6-550-119-01	TRANSISTOR DTC144EMT2L
Q305	8-729-403-27	TRANSISTOR XN4401
Q306	6-550-025-01	TRANSISTOR EMD12T2R
* Q308	6-551-526-01	TRANSISTOR RJU003N03T106
Q309	8-729-041-43	TRANSISTOR HN1L02FU (TE85R)
Q311	6-550-242-01	TRANSISTOR DTC114EMT2L

Ref. No.	Part No.	Description
Q312	6-550-807-01	TRANSISTOR EMH11T2R
Q313	8-729-905-37	TRANSISTOR 2SC4081T106Q
Q314	8-729-904-66	TRANSISTOR DTD113EK-T-146
Q326	8-729-922-06	TRANSISTOR 2SA1577-T106-Q
Q327	6-550-238-01	TRANSISTOR DTA114EMT2L
Q330	6-550-119-01	TRANSISTOR DTC144EMT2L
Q334	8-729-922-06	TRANSISTOR 2SA1577-T106-Q
* Q335	6-550-011-01	TRANSISTOR EMH10T2R
* Q336	6-551-525-01	TRANSISTOR DTB513ZMT2L
* Q337	6-551-525-01	TRANSISTOR DTB513ZMT2L
Q338	6-550-119-01	TRANSISTOR DTC144EMT2L
Q340	6-550-119-01	TRANSISTOR DTC144EMT2L
Q401	8-729-928-90	TRANSISTOR DTC114EE
Q403	8-729-053-54	TRANSISTOR HN1A01FE-Y/GR (TPLR3)
Q404	8-729-020-94	TRANSISTOR 2SA1314C-TE12L
Q405	8-729-053-54	TRANSISTOR HN1A01FE-Y/GR (TPLR3)
Q406	8-729-020-94	TRANSISTOR 2SA1314C-TE12L
Q407	8-729-140-63	TRANSISTOR 2SA1611-M5M6
* Q501	6-550-010-01	TRANSISTOR EMD3T2R
< RESISTOR >		
R089	1-208-928-11	METAL CHIP 51K 0.5% 1/16W
R090	1-208-911-11	METAL CHIP 10K 0.5% 1/16W
R101	1-218-977-11	RES-CHIP 100K 5% 1/16W
R102	1-218-977-11	RES-CHIP 100K 5% 1/16W
R108	1-218-934-11	RES-CHIP 27 5% 1/16W
R109	1-218-934-11	RES-CHIP 27 5% 1/16W
R114	1-218-934-11	RES-CHIP 27 5% 1/16W
R115	1-218-934-11	RES-CHIP 27 5% 1/16W
R116	1-218-934-11	RES-CHIP 27 5% 1/16W
R117	1-218-933-11	RES-CHIP 22 5% 1/16W
R118	1-218-934-11	RES-CHIP 27 5% 1/16W
R119	1-218-934-11	RES-CHIP 27 5% 1/16W
R120	1-218-933-11	RES-CHIP 22 5% 1/16W
R125	1-218-929-11	RES-CHIP 10 5% 1/16W
R126	1-218-929-11	RES-CHIP 10 5% 1/16W
R130	1-218-977-11	RES-CHIP 100K 5% 1/16W
R131	1-218-977-11	RES-CHIP 100K 5% 1/16W
R132	1-218-934-11	RES-CHIP 27 5% 1/16W
R133	1-218-934-11	RES-CHIP 27 5% 1/16W
R134	1-218-934-11	RES-CHIP 27 5% 1/16W
R140	1-220-167-81	RES-CHIP 51 5% 1/16W
R146	1-218-934-11	RES-CHIP 27 5% 1/16W
R150	1-218-929-11	RES-CHIP 10 5% 1/16W
R151	1-218-929-11	RES-CHIP 10 5% 1/16W
R154	1-208-898-81	METAL CHIP 3K 0.5% 1/16W
R162	1-218-977-11	RES-CHIP 100K 5% 1/16W
R163	1-218-973-11	RES-CHIP 47K 5% 1/16W
R164	1-218-977-11	RES-CHIP 100K 5% 1/16W
R165	1-218-977-11	RES-CHIP 100K 5% 1/16W
R177	1-208-695-11	METAL CHIP 3.3K 0.5% 1/16W
R196	1-218-977-11	RES-CHIP 100K 5% 1/16W
R197	1-208-860-81	METAL CHIP 75 0.5% 1/16W
R199	1-208-860-81	METAL CHIP 75 0.5% 1/16W
R200	1-218-965-11	RES-CHIP 10K 5% 1/16W
R203	1-218-990-81	SHORT CHIP 0
R206	1-208-860-81	METAL CHIP 75 0.5% 1/16W
R208	1-218-941-81	RES-CHIP 100 5% 1/16W

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
R209	1-218-950-11	RES-CHIP	560	5%	1/16W	R356	1-218-933-11	RES-CHIP	22	5%	1/16W
R210	1-218-965-11	RES-CHIP	10K	5%	1/16W	R357	1-218-965-11	RES-CHIP	10K	5%	1/16W
R212	1-216-864-11	SHORT CHIP	0			R358	1-218-965-11	RES-CHIP	10K	5%	1/16W
R215	1-216-864-11	SHORT CHIP	0			R359	1-218-953-11	RES-CHIP	1K	5%	1/16W
R216	1-216-864-11	SHORT CHIP	0			R360	1-218-977-11	RES-CHIP	100K	5%	1/16W
R218	1-218-941-11	RES-CHIP	100	5%	1/16W	R361	1-218-950-11	RES-CHIP	560	5%	1/16W
R220	1-218-941-81	RES-CHIP	100	5%	1/16W	R362	1-218-953-11	RES-CHIP	1K	5%	1/16W
R236	1-218-953-11	RES-CHIP	1K	5%	1/16W	R363	1-218-947-11	RES-CHIP	330	5%	1/16W
R241	1-218-960-11	RES-CHIP	3.9K	5%	1/16W	R364	1-218-953-11	RES-CHIP	1K	5%	1/16W
R250	1-218-990-81	SHORT CHIP	0			R365	1-218-953-11	RES-CHIP	1K	5%	1/16W
R251	1-218-989-11	RES-CHIP	1M	5%	1/16W	R366	1-218-977-11	RES-CHIP	100K	5%	1/16W
R252	1-218-989-11	RES-CHIP	1M	5%	1/16W	R368	1-218-969-11	RES-CHIP	22K	5%	1/16W
R258	1-218-990-81	SHORT CHIP	0			R369	1-218-953-11	RES-CHIP	1K	5%	1/16W
R288	1-216-811-11	METAL CHIP	150	5%	1/10W	R370	1-218-977-11	RES-CHIP	100K	5%	1/16W
R289	1-216-812-11	METAL CHIP	180	5%	1/10W	R371	1-218-965-11	RES-CHIP	10K	5%	1/16W
R290	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R373	1-218-977-11	RES-CHIP	100K	5%	1/16W
R291	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R374	1-208-697-11	METAL CHIP	3.9K	0.5%	1/16W
R292	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R375	1-218-965-11	RES-CHIP	10K	5%	1/16W
R293	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R379	1-218-989-11	RES-CHIP	1M	5%	1/16W
R294	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R380	1-218-989-11	RES-CHIP	1M	5%	1/16W
R295	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R382	1-218-977-11	RES-CHIP	100K	5%	1/16W
R296	1-218-967-11	RES-CHIP	15K	5%	1/16W	R383	1-218-977-11	RES-CHIP	100K	5%	1/16W
R299	1-218-967-11	RES-CHIP	15K	5%	1/16W	R386	1-218-977-11	RES-CHIP	100K	5%	1/16W
R301	1-218-977-11	RES-CHIP	100K	5%	1/16W	R387	1-218-977-11	RES-CHIP	100K	5%	1/16W
R302	1-218-989-11	RES-CHIP	1M	5%	1/16W	R388	1-218-977-11	RES-CHIP	100K	5%	1/16W
R304	1-218-989-11	RES-CHIP	1M	5%	1/16W	R391	1-218-977-11	RES-CHIP	100K	5%	1/16W
R305	1-208-713-11	METAL CHIP	18K	0.5%	1/16W	R392	1-218-977-11	RES-CHIP	100K	5%	1/16W
R306	1-208-911-11	METAL CHIP	10K	0.5%	1/16W	R393	1-218-977-11	RES-CHIP	100K	5%	1/16W
R308	1-218-951-11	RES-CHIP	680	5%	1/16W	R394	1-218-977-11	RES-CHIP	100K	5%	1/16W
R314	1-218-965-11	RES-CHIP	10K	5%	1/16W	R395	1-218-977-11	RES-CHIP	100K	5%	1/16W
R315	1-218-977-11	RES-CHIP	100K	5%	1/16W	R397	1-218-953-11	RES-CHIP	1K	5%	1/16W
R316	1-218-977-11	RES-CHIP	100K	5%	1/16W	R398	1-218-929-11	RES-CHIP	10	5%	1/16W
R317	1-218-977-11	RES-CHIP	100K	5%	1/16W	R399	1-218-990-81	SHORT CHIP	0		
R318	1-218-977-11	RES-CHIP	100K	5%	1/16W	R401	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R319	1-218-935-11	RES-CHIP	33	5%	1/16W	R402	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R322	1-208-697-11	METAL CHIP	3.9K	0.5%	1/16W	R403	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R323	1-216-803-11	METAL CHIP	33	5%	1/10W	R404	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R325	1-218-953-11	RES-CHIP	1K	5%	1/16W	R405	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R326	1-218-990-81	SHORT CHIP	0			R406	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R327	1-218-977-11	RES-CHIP	100K	5%	1/16W	R407	1-218-977-11	RES-CHIP	100K	5%	1/16W
R328	1-218-977-11	RES-CHIP	100K	5%	1/16W	R412	1-218-990-81	SHORT CHIP	0		
R329	1-218-977-11	RES-CHIP	100K	5%	1/16W	R413	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R330	1-218-989-11	RES-CHIP	1M	5%	1/16W	R414	1-218-701-11	METAL CHIP	2.4K	0.5%	1/10W
R331	1-218-989-11	RES-CHIP	1M	5%	1/16W	R415	1-218-701-11	METAL CHIP	2.4K	0.5%	1/10W
R332	1-218-977-11	RES-CHIP	100K	5%	1/16W	R416	1-218-941-11	RES-CHIP	100	5%	1/16W
R334	1-218-949-11	RES-CHIP	470	5%	1/16W	R419	1-219-724-11	METAL CHIP	1	1%	1/4W
R335	1-218-977-11	RES-CHIP	100K	5%	1/16W	R422	1-208-918-81	METAL CHIP	20K	0.5%	1/16W
R338	1-218-977-11	RES-CHIP	100K	5%	1/16W	R423	1-208-920-81	METAL CHIP	24K	0.5%	1/16W
R339	1-218-977-11	RES-CHIP	100K	5%	1/16W	R424	1-208-920-81	METAL CHIP	24K	0.5%	1/16W
R340	1-216-304-11	RES-CHIP	3.3	5%	1/10W	R425	1-208-918-81	METAL CHIP	20K	0.5%	1/16W
R341	1-218-962-11	RES-CHIP	5.6K	5%	1/16W	R429	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R342	1-218-965-11	RES-CHIP	10K	5%	1/16W	R430	1-218-941-11	RES-CHIP	100	5%	1/16W
R343	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R431	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W
R345	1-218-953-11	RES-CHIP	1K	5%	1/16W	R433	1-219-724-11	METAL CHIP	1	1%	1/4W
R346	1-218-953-11	RES-CHIP	1K	5%	1/16W	R437	1-218-990-81	SHORT CHIP	0		
R347	1-218-974-11	RES-CHIP	56K	5%	1/16W	R438	1-218-990-81	SHORT CHIP	0		
R350	1-218-953-11	RES-CHIP	1K	5%	1/16W	R441	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W
R352	1-218-969-11	RES-CHIP	22K	5%	1/16W						

AM-001

Ref. No.	Part No.	Description			
R442	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W
R443	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W
R452	1-219-724-11	METAL CHIP	1	1%	1/4W
R455	1-219-724-11	METAL CHIP	1	1%	1/4W
R466	1-216-864-11	SHORT CHIP	0		
R474	1-218-990-81	SHORT CHIP	0		
R501	1-218-977-11	RES-CHIP	100K	5%	1/16W
R502	1-218-977-11	RES-CHIP	100K	5%	1/16W
R506	1-218-977-11	RES-CHIP	100K	5%	1/16W
R804	1-216-864-11	SHORT CHIP	0		
R814	1-218-938-11	RES-CHIP	56	5%	1/16W
R823	1-218-938-11	RES-CHIP	56	5%	1/16W
R824	1-216-864-11	SHORT CHIP	0		
R825	1-220-174-11	RES-CHIP	200	5%	1/16W
R826	1-220-174-11	RES-CHIP	200	5%	1/16W
R835	1-218-938-11	RES-CHIP	56	5%	1/16W
R844	1-218-938-11	RES-CHIP	56	5%	1/16W
R845	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R846	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R847	1-218-929-11	RES-CHIP	10	5%	1/16W

< COMPOSITION CIRCUIT BLOCK >

RB101	1-233-810-21	RES, NETWORK	100K (3216)		
RB102	1-234-168-11	RES, CHIP NETWORK	27 (3216)		
RB103	1-234-168-11	RES, CHIP NETWORK	27 (3216)		
RB301	1-234-381-21	RES, NETWORK	100K (1005X4)		
RB302	1-234-381-21	RES, NETWORK	100K (1005X4)		
RB303	1-233-575-11	RES, CHIP NETWORK	22 (3216)		
RB304	1-233-575-11	RES, CHIP NETWORK	22 (3216)		
RB801	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB802	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB803	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB804	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB805	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB806	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB807	1-234-525-21	RES, CHIP NETWORK	56 (3216)		
RB808	1-234-525-21	RES, CHIP NETWORK	56 (3216)		

< SLANT SENSOR >

S624	1-479-591-11	SLANT SENSOR (HORIZONTAL/VERTICAL POSITION DETECT)			
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< THERMISTOR >

TH101	1-804-949-11	THERMISTOR, NTC (SMD)			
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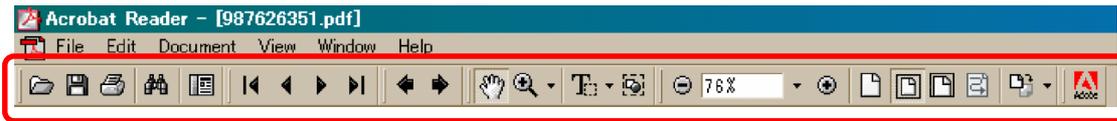
< VARISTOR >

* VR301	1-802-128-11	VARISTOR (SMD)			
* VR302	1-802-128-11	VARISTOR (SMD)			

< VIBRATOR >

* X101	1-813-090-31	VIBRATOR, CRYSTAL (12MHz)			
X102	1-767-994-23	VIBRATOR, CRYSTAL (32.768kHz)			
* X301	1-813-104-21	VIBRATOR, CERAMIC (6MHz)			
X303	1-781-646-21	VIBRATOR, CERAMIC (4MHz)			

[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Toolbar

Printing a text

1. Click the Print button .
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:

To set a range to be printed within a page, select the graphic selection tool  and drag on the page to enclose a range to be printed, and then click the Print button.

Reversing the screens displayed once

- To reverse the previous screens (operation) one by one, click the .
- To advance the reversed screens (operation) one by one, click the .

Application to the Service Manual:

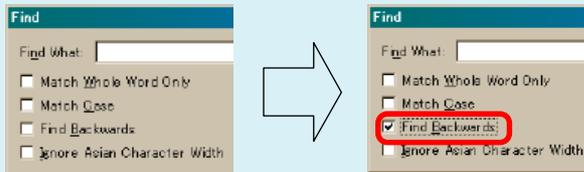
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Finding a text

1. Click the Find button .
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:

To execute “find” from current page toward the previous pages, select the check box “Find Backward” and then click the “Find”.



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:

The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.

Note: The find function may not be applied to the Service Manual depending on the date of issue.

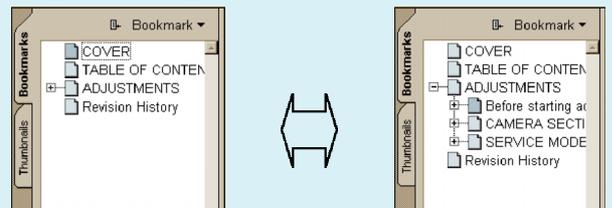
Moving with link

1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

Moving with bookmark:

Click an item (text) on the bookmark pallet. and you can move to the link destination. Also, clicking  can display the hidden items.

(To go back to original state, click )



Zooming or rotating the screen display

“Zoom in/out”

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click  or  for zooming in or out.



“Rotate”

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:

The printed circuit board diagram you see now can be changed to the same direction as the set.

Switching a page

- To move to the first page, click the .
- To move to the last page, click the .
- To move to the previous page, click the .
- To move to the next page, click the .

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2006.06	Official Release	—	—