

DSC-H5

MANUAL DE SERVIÇO

LEVEL 3

Brazilian Model

Ver. 1.1 2006.06

Revision History

Instruções de
Acrobat Reader

Memória Interna
na PLACA



Link

• NOTA DE SERVIÇO	• PLACAS DE CIRCUITO IMPRESSO
• DIAGRAMAS ESQUEMÁTICOS	• LISTA DE PEÇAS PARA REPARO

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.

DIGITAL STILL CAMERA

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 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

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.

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.

CAUTION :

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

ÍNDICE

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1. NOTA DE SERVIÇO

1-1. MÉTODO PARA A COPIAR OU APAGAR O DADO DA MEMÓRIA INTERNA

The data can be copied/erased by the operations on the Setup screen. (When erasing the data, execute formatting the internal memory.)

Note: 1 When replacing the SY-150 board, erase the data in internal memory of the board before replacement.

Note: 2 When replacing the SY-150 board or the IC202 on the SY-150 board, execute formatting and initialize the internal memory after replacement.

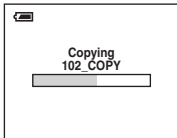
Method for copying the data in internal memory

Copy

Copies all images in the internal memory to a “Memory Stick Duo”.

OK	See the following procedure.
<input checked="" type="button" value="Cancel"/>	Cancels the copying.

- ① Insert a “Memory Stick Duo” having 32 MB or larger capacity.
- ② Select [OK] with ▲ on the control button, then press ●.
The message “All data in internal memory will be copied Ready?” appears.
- ③ Select [OK] with ▲, then press ●.
Copying starts.



- Use a fully charged Nickel-Metal Hydride battery or the AC Adaptor (not supplied). If you attempt to copy image files using a batteries with little remaining charge, the batteries may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick Duo” after copying, then execute the [Format] command in  (Internal Memory Tool).
- You cannot select a folder copied on a “Memory Stick Duo”.
- Even if you copy data, a  (Print order) mark is not copied.

Method for formatting the internal memory

This item does not appear when a “Memory Stick Duo” is inserted in the camera.
The default settings are marked with ✓.

Format

Formats the internal memory.

- Note that formatting irrevocably erases all data in the internal memory, including even protected images.

OK	See the following procedure.
<input checked="" type="button" value="Cancel"/>	Cancels the formatting.

- ① Select [OK] with ▲ on the control button, then press ●.
The message “All data in internal memory will be erased Ready?” appears.
- ② Select [OK] with ▲, then press ●.
The format is complete.

• PROCESS AFTER FIXING FLASH ERROR

When “FLASH error” (Self-diagnosis Code E : 91 : **) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.

After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the Setup screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting.

OK	See the following procedure.
<input checked="" type="button" value="Cancel"/>	Cancels the resetting.

- ① Select [OK] with ▲ on the control button, then press ●.
The message “Initialize all settings Ready?” appears.
- ② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.
Make sure that the power is not disconnected during resetting.

4-2. DIAGRAMAS ESQUEMÁTICOS

Link

• PLACA SY-150 (1/8) (LENS DRIVE)	• PLACA SY-150 (6/8) (STEADY SHOT CONTROL)
• PLACA SY-150 (2/8) (CAMERA A/D CONV., TIMING GENERATOR)	• PLACA SY-150 (7/8) (CONNECTOR)
• PLACA SY-150 (3/8) (CAMERA DSP, SYSTEM CONTROL)	• PLACA SY-150 (8/8) (DC/DC CONVERTER)
• PLACA SY-150 (4/8) (256Mbit SDRAM, BURST FLASH MEMORY, ONE NAND FLASH MEMORY)	• PLACA CH-199 (CCD SIGNAL PROCESS)
• PLACA SY-150 (5/8) (A/V AMP, A/V, USB JACK RELAY)	

• NOTA COMUM PARA DIAGRAMAS ESQUEMÁTICOS

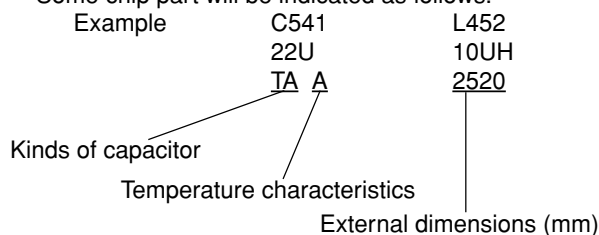
4-2. DIAGRAMAS ESQUEMÁTICOS

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 μ F unless otherwise noted. pF : μ F. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. $k\Omega=1000\Omega$, $M\Omega=1000k\Omega$.
- 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.



- 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.

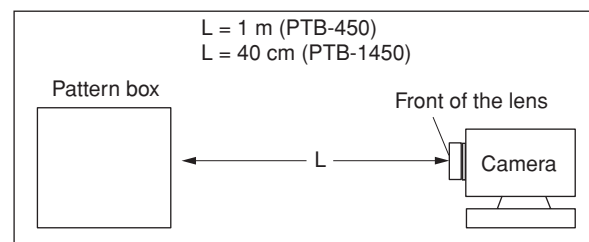
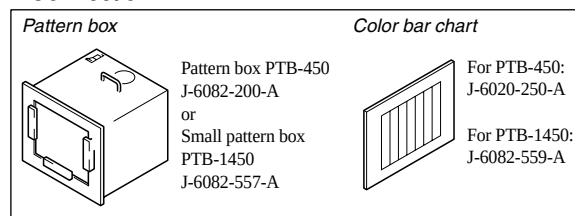
(Measuring conditions voltage)

- Voltages are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values.
(VOM of DC 10 M Ω input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

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.

1. Connection



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

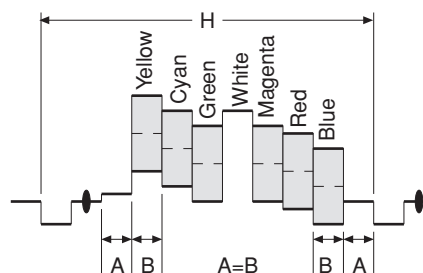


Fig. a (Video output terminal output waveform)

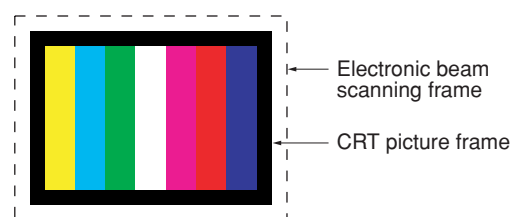


Fig.b (Picture on monitor TV)

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

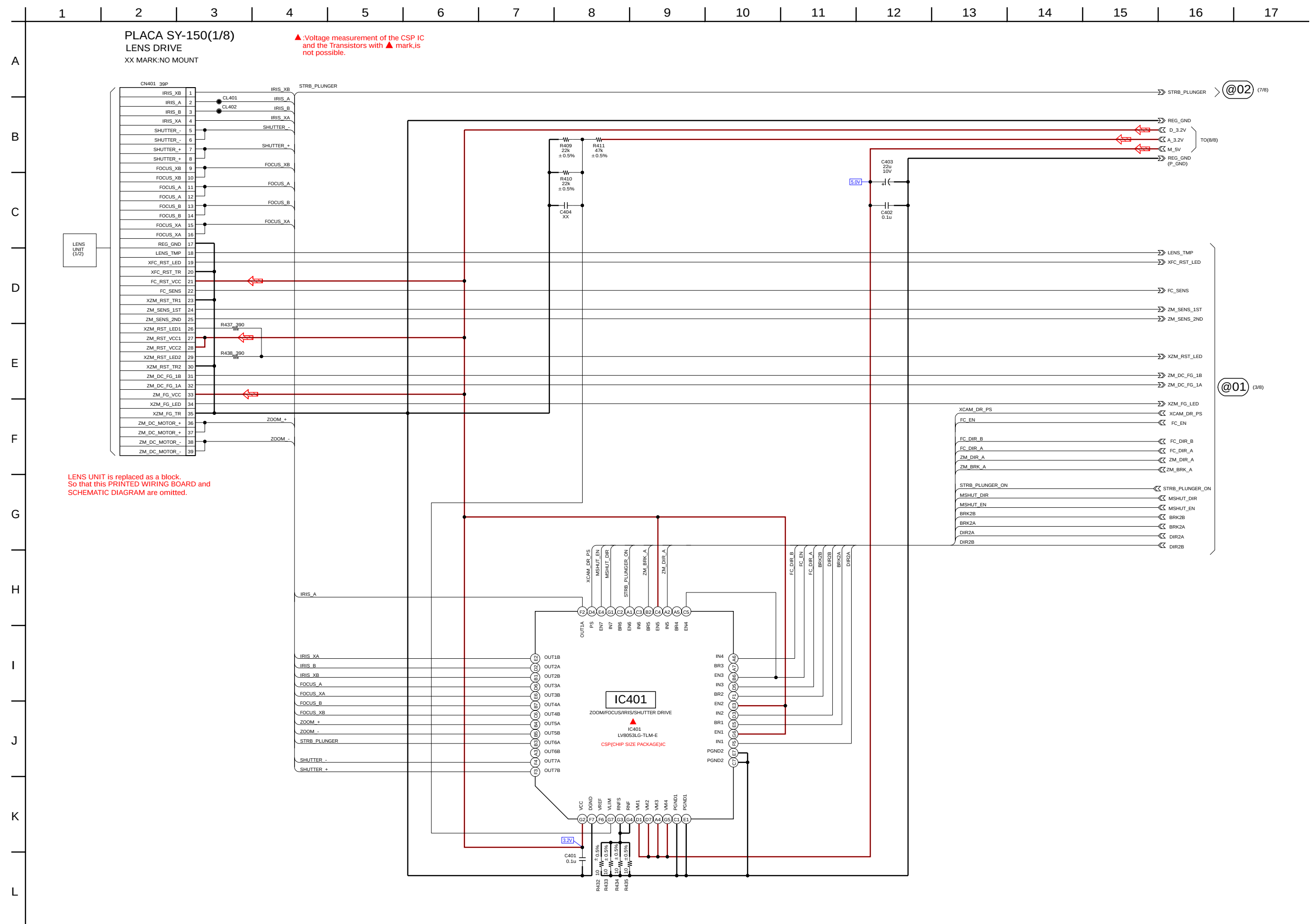
Note :

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

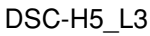
Note :

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

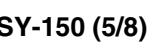
4-2. DIAGRAMAS ESQUEMÁTICOS

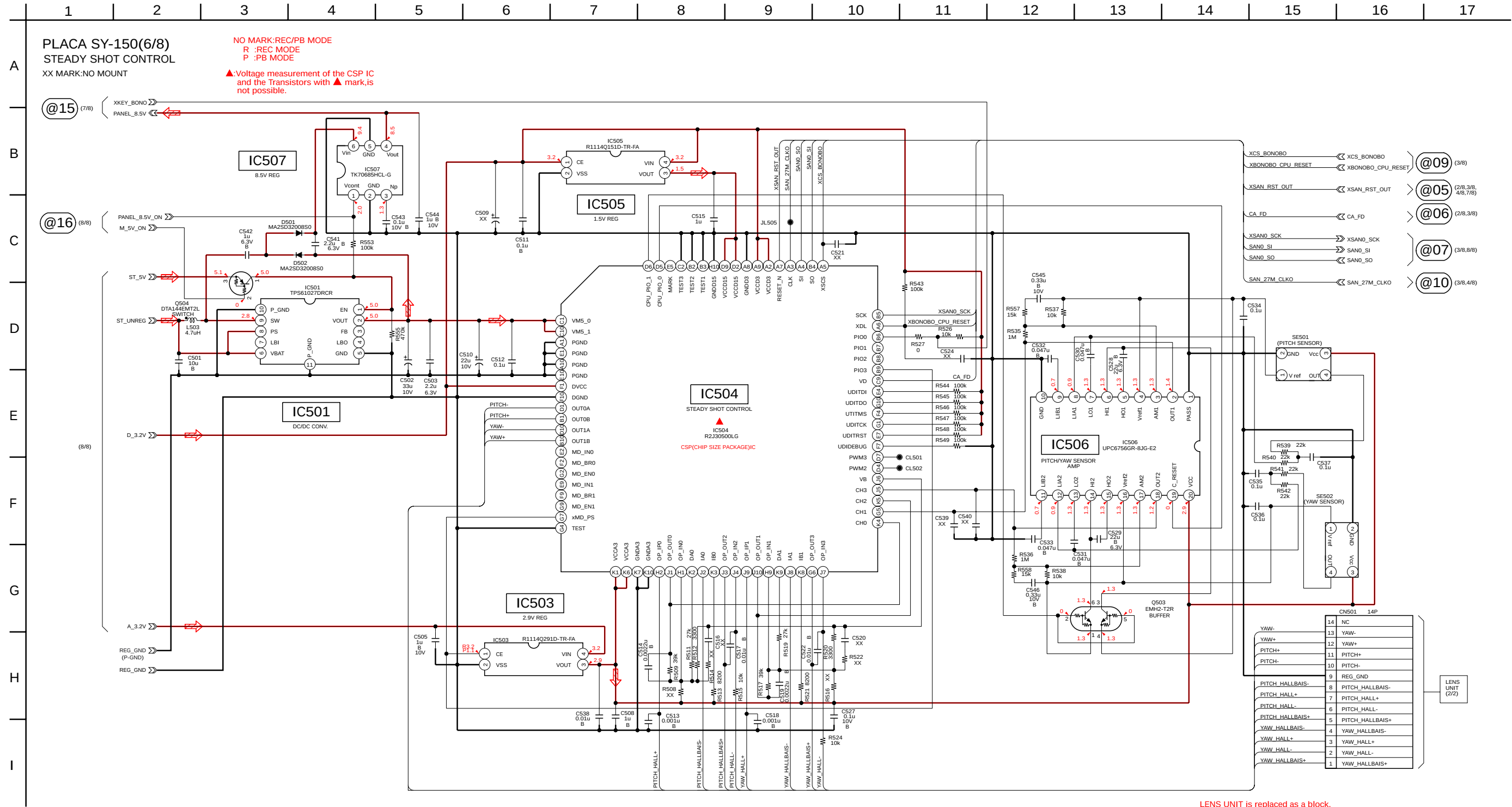




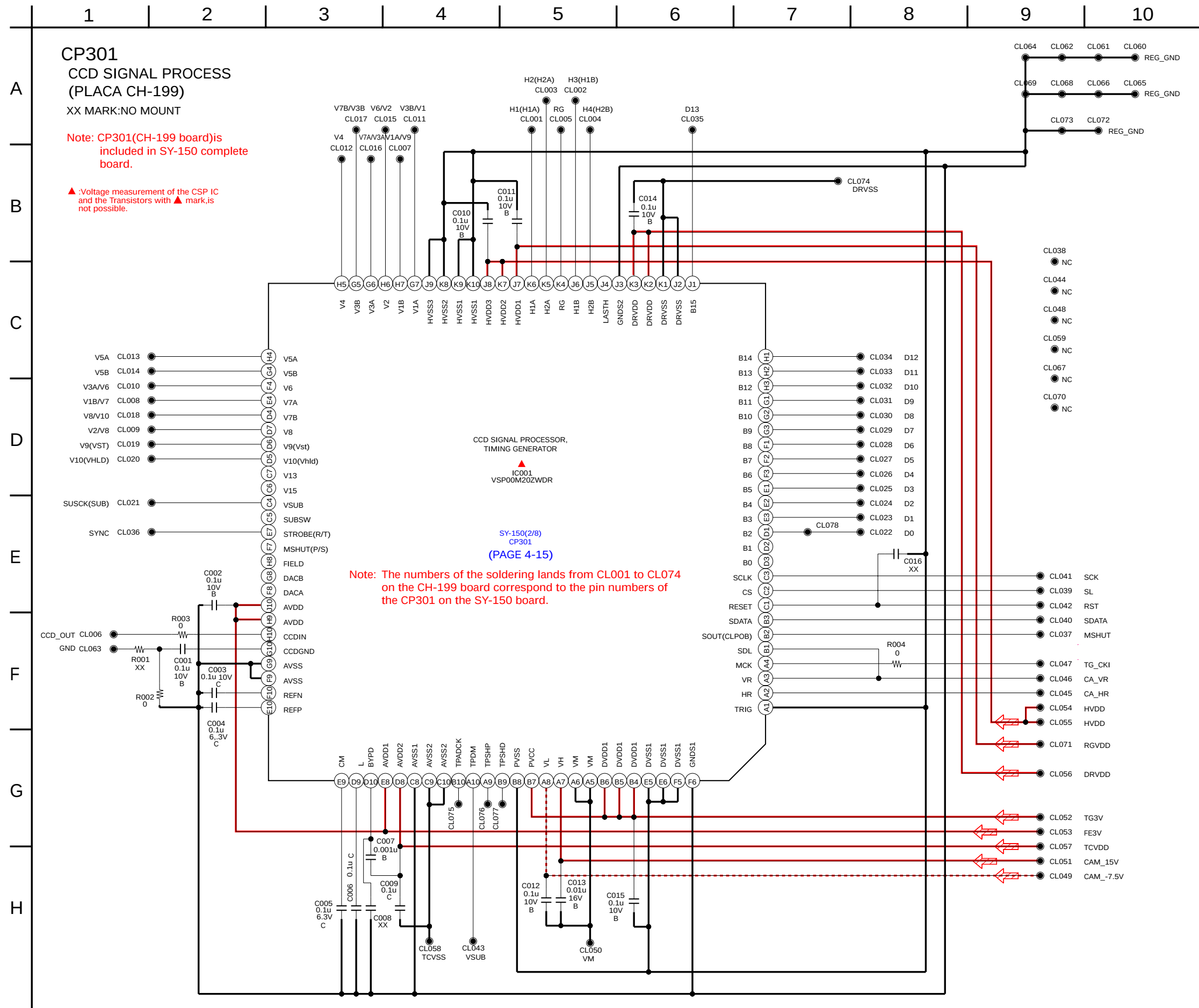


▲ :Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.





LENS UNIT is replaced as a block.
 So that this PRINTED WIRING BOARD and
 SCHEMATIC DIAGRAM are omitted.



4-3. PLACAS DE CIRCUITO IMPRESSO

Link

• PLACA SY-150(SIDE A)

• PLACA SY-150 (SIDE B)

• PLACA CH-199

• NOTAS COMUNS PARA PLACAS DE CIRCUITO IMPRESSO

• LOCALIZAÇÃO DAS PECAS MONTADAS

4-3. PLACAS DE CIRCUITO IMPRESSO

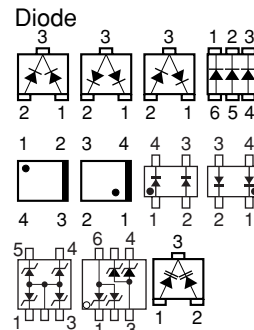
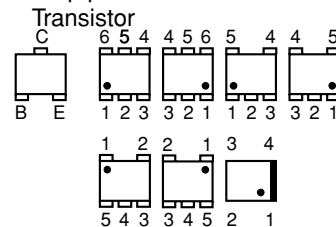
THIS NOTE IS COMMON FOR WIRING BOARDS

(In addition to this, the necessary note is printed in each block)

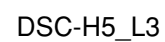
(For printed wiring boards)

-  : Uses unleaded solder.
-  : Pattern from the side which enables seeing.
(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

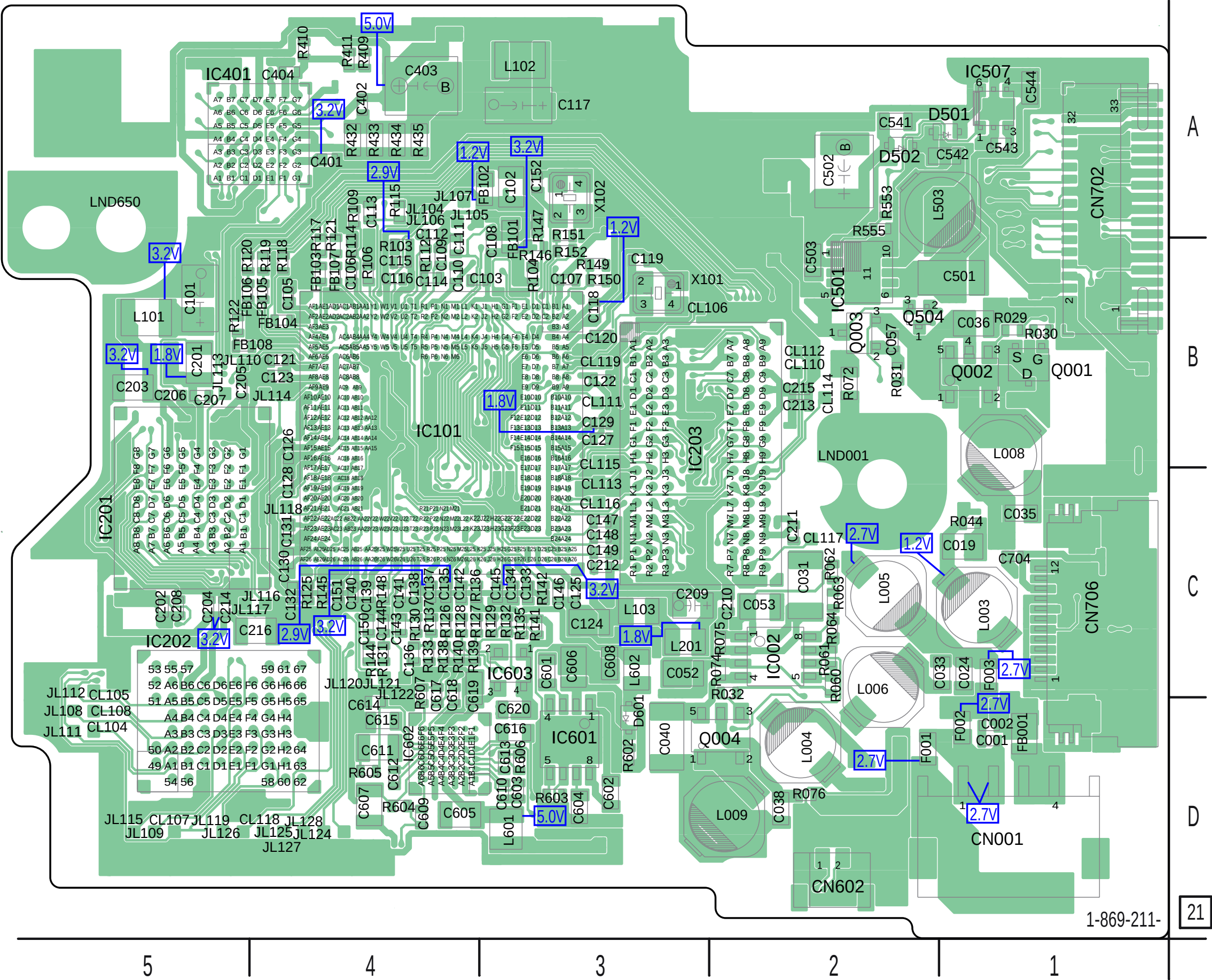
• Chip parts.



SY-150 (8 layers) • : Uses unleaded solder.



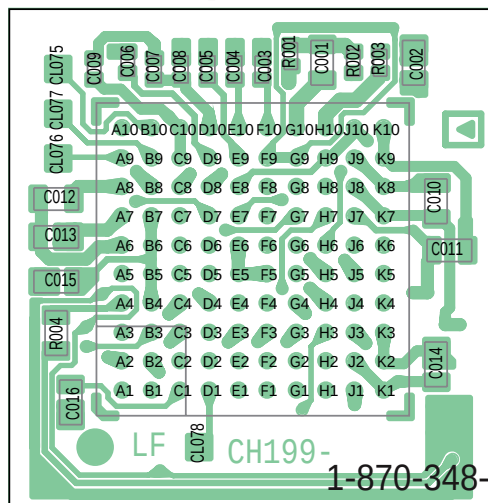
SY-150 BOARD(SIDE B)



CH-199 (8 layers) •  : Uses unleaded solder.

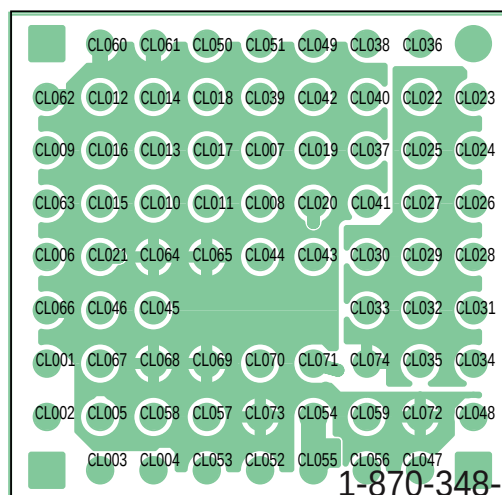
Note: CP301 (CH-199 board) is included
in SY-150 complete board.

CP301 (CH-199 board) (SIDE A)



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(SIDE B)



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4-3. PLACAS DE CIRCUITO IMPRESSO

4-4. LOCALIZAÇÃO DAS PEÇAS MONTADAS

no mark : side A
* mark : side B

SY-150 BOARD

* C001	D-1	* C144	C-4	* C543	A-1	D301	D-2	* L003	C-1	* R122	B-5	R549	A-2
* C002	D-1	* C145	C-3	* C544	A-1	* D501	A-1	* L004	D-2	* R125	C-4	* R553	A-2
C003	D-2	* C146	C-3	C545	B-3	* D502	A-2	* L005	C-2	* R126	C-4	* R555	A-2
C004	D-2	* C147	C-3	C546	A-3	* D601	D-3	* L006	C-2	* R127	C-4	R557	B-3
C005	D-2	* C148	C-3	* C601	C-3	D651	C-4	* L008	B-1	* R128	C-4	R558	A-3
C006	D-2	* C149	C-3	* C602	D-3	D652	B-4	* L009	D-2	* R129	C-3	* R602	D-3
C010	C-1	* C150	C-4	* C603	D-3	D653	B-5	L011	D-2	* R130	C-4	* R603	D-3
C011	C-1	* C151	C-4	* C604	D-3	D654	B-4	* L101	B-5	* R131	C-4	* R604	D-4
C012	C-1	* C152	A-3	* C605	D-4	D701	A-2	* L102	A-3	* R132	C-3	* R605	D-4
C014	D-2	C153	D-2	* C606	C-3			* L103	C-3	* R133	C-4	* R606	D-3
C015	D-2	* C201	B-5	* C607	D-4	* F001	D-2	* L201	C-3	* R135	C-3	* R607	C-4
C016	D-2	* C202	C-5	* C608	C-3	* F002	D-1	L301	C-4	* R136	C-4	R651	B-4
C017	D-1	* C203	B-5	* C609	D-4	* F003	C-1	L302	C-2	* R137	C-4	R652	B-4
* C019	C-1	* C204	C-5	* C610	D-3			L303	B-3	* R138	C-4	R653	B-4
C020	C-2	* C205	B-5	* C611	D-4	* FB001	D-1	L304	C-2	* R139	C-4	R655	B-5
C021	D-1	* C206	B-5	* C612	D-4	* FB101	A-3	* L503	A-2	* R140	C-4	R658	A-5
C022	C-1	* C207	B-5	* C613	D-3	* FB102	A-3	* L601	D-3	* R141	C-3	R713	A-2
C023	C-2	* C208	C-5	* C614	D-4	* FB103	B-4	* L602	C-3	* R142	C-3	R714	A-2
* C024	C-1	* C209	C-3	* C615	D-4	* FB104	B-4	L701	D-5	* R144	C-4	R715	A-3
C025	C-1	* C210	C-2	* C616	D-3	* FB105	B-4	L702	D-4	* R145	C-4	R716	A-1
C027	D-1	* C211	C-2	* C617	C-4	* FB106	B-4	L703	A-1	* R146	B-3	R746	A-3
C028	D-2	* C212	C-3	* C618	C-4	* FB107	B-4	L704	A-3	* R147	A-3	R747	A-3
C029	C-1	* C213	B-2	* C619	C-4	* FB108	B-4	L705	A-2	* R148	C-4	R748	D-5
C030	C-1	* C214	C-5	* C620	D-3	FB301	C-4			* R149	B-3	R749	D-5
* C031	C-2	* C215	B-2	C701	D-5	FB302	C-4	LF651	B-5	* R150	B-3	R750	D-5
* C033	C-2	* C216	C-4	C702	D-4	FB308	C-3			* R151	A-3	R751	B-1
C034	C-2	C301	D-2	* C704	C-1	FB309	D-3	* LND001	B-2	* R152	B-3	R752	B-1
* C035	C-1	C302	D-4	C705	D-5	FB651	B-5	* LND650	A-5	R153	D-2		
* C036	B-1	C303	D-2	C706	D-5	FB701	B-3			R301	D-3	SE501	B-4
* C038	D-2	C304	C-4	C707	D-5			* Q001	B-1	R302	D-3	SE502	A-4
* C040	D-3	C305	C-4	C708	A-2	IC001	C-2	* Q002	B-1	R304	D-2		
C049	D-2	C306	C-4	C709	A-3	* IC002	C-2	* Q003	B-2	R307	C-4	X001	C-1
C051	C-2	C307	D-3	C710	A-1	* IC101	B-4	* Q004	D-2	R308	C-4	* X101	B-3
* C052	C-3	C308	C-4	C711	A-2	* IC201	C-5	Q101	B-4	R309	D-3	* X102	A-3
* C053	C-2	C309	C-3	C712	A-3	* IC202	C-5	Q301	C-3	R310	D-3		
C054	C-2	C310	C-3	C713	A-1	* IC203	B-3	Q503	B-3	R311	D-3		
C055	C-1	C311	C-3	C714	A-3	IC301	B-3	* Q504	B-2	R312	D-3		
C056	C-2	C313	C-3	C715	A-3	* IC401	A-5	Q701	A-2	R313	D-3		
* C057	B-2	C314	C-3	C716	D-4	* IC501	B-2	Q702	B-1	R314	D-3		
C063	C-2	C315	B-3	C717	D-5	IC503	A-3			R316	B-3		
C064	C-1	C316	C-3	C718	D-5	IC504	B-2	R001	C-4	R318	D-3		
C065	C-2	C317	C-3			IC505	B-2	R002	C-4	R319	D-3		
* C101	B-5	C318	B-3	* CL104	D-5	IC506	A-3	R004	C-1	R320	D-3		
* C102	A-3	C319	B-3	* CL105	C-5	* IC507	A-1	R005	C-1	R321	D-3		
* C103	B-3	* C401	A-4	* CL106	B-3	* IC601	D-3	R011	C-1	R322	C-3		
* C105	B-4	* C402	A-4	* CL107	D-5	* IC602	D-4	R012	C-2	* R409	A-4		
* C106	B-4	* C403	A-4	* CL108	D-5	* IC603	C-3	R013	C-2	* R410	A-4		
* C107	B-3	* C404	A-4	* CL110	B-2	IC701	C-5	R016	C-2	* R411	A-4		
* C108	A-3	* C501	B-1	* CL111	B-3	IC702	C-5	R017	C-2	* R432	A-4		
* C109	B-4	* C502	A-2	* CL112	B-2			R018	C-1	* R433	A-4		
* C110	B-4	* C503	B-2	* CL113	C-3	JL001	C-1	R020	C-2	* R434	A-4		
* C111	A-4	C505	A-3	* CL114	B-2	* JL104	A-4	R023	C-2	* R435	A-4		
* C112	A-4	C508	A-3	* CL115	B-3	* JL105	A-4	* R029	B-1	R437	A-5		
* C113	A-4	C509	B-1	* CL116	C-3	* JL106	A-4	* R030	B-1	R438	A-5		
* C114	B-4	C510	B-1	* CL117	C-2	* JL107	A-4	* R031	B-2	R508	B-2		
* C115	B-4	C511	B-1	* CL118	D-4	* JL108	D-5	* R032	C-2	R509	B-2		
* C116	B-4	C512	A-2	* CL119	B-3	* JL109	D-5	R043	D-2	R511	B-2		
* C117	A-3	C513	B-2	CL401	A-5	* JL110	B-4	* R044	C-1	R512	B-2		
* C118	B-3	C514	B-2	CL402	A-5	* JL111	D-5	R046	D-2	R513	B-2		
* C119	B-3	C515	B-2	CL501	A-1	* JL112	C-5	R057	C-2	R514	B-2		
* C120	B-3	C516	B-2	CL502	A-2	* JL113	B-5	R058	C-2	R515	B-2		
* C121	B-4	C517	B-2			* JL114	B-4	R059	C-2	R516	B-2		
* C122	B-3	C518	A-2	* CN001	D-1	* JL115	D-5	* R060	C-2	R517	A-2		
* C123	B-4	C519	A-2	CN301	D-3	* JL116	C-4	* R061	C-2	R519	B-2		
* C124	C-3	C520	B-2	CN401	A-5	* JL117	C-4	* R062	C-2	R520	B-2		
* C125	C-3	C521	B-1	* CN501	A-1	* JL118	C-4	* R063	C-2	R521	B-2		
* C126	B-4	C522	A-2	CN601	A-3	* JL119	D-5	* R064	C-2	R522	B-2		
* C127	B-3	C524	B-1	* CN602	D-2	* JL120	C-4	R068	C-2	R524	A-2		
* C128	C-4	C527	A-3	CN651	B-5	* JL121	C-4	* R072	B-2	R526	B-1		
* C129	B-3	C528	B-4	CN701	B-1	* JL122	C-4	* R074	C-2	R527	B-1		
* C130	C-4	C529	A-4	* CN702	A-1	* JL124	D-4	* R075	C-2	R535	B-3		
* C131	C-4	C530	B-4	CN703	D-5	* JL125	D-4	* R076	D-2	R536	A-3		
* C132	C-4	C531	A-4	CN704	D-1	* JL126	D-5	* R103	B-4	R537	B-3		
* C133	C-3	C532	B-4	CN705	D-2	* JL127	D-4	* R104	B-3	R538	A-3		
* C134	C-3	C533	A-4	* CN706	C-1	* JL128	D-4	* R106	B-4	R539	A-4		
* C135	C-4	C534	B-3	CN707	A-2	JL301	B-3	* R109	A-4	R540	B-4		
* C136	C-4	C535	A-4			JL302	B-3	* R112	B-4	R541	A-4		
* C137	C-4	C536	A-3	CP301	B-4	JL303	D-4	* R114	A-4	R542	A-4		
* C138	C-4	C537	B-4			JL304	C-4	* R115	A-4	R543	B-1		
* C139	C-4	C538	A-3	D001	C-4	JL305	D-4	* R117	A-4	R544	B-2		
* C140	C-4	C539	B-2	D002	C-2	JL505	B-1	* R118	B-4	R545	A-2		
* C141	C-4	C540	B-2	D003	C-2	JL701	B-3	* R119	B-4	R546	B-2		
* C142	C-4	* C541	A-2	D006	C-1			* R120	B-4	R547	B-2		
* C143	C-4	* C542	A-1	D007	C-1	L001	D-2	* R121	A-4	R548	B-2		

5. LISTA DE PEÇAS PARA REPARO

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..., uPC..., μ PC...,
uPD..., μ PD...

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

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.

Language that can be selected about SY-150 board

	Area	Japanese	English	French	German	Spanish	Italian	Portugal	Simplified Chinese	Traditional Chinese	Arabic	Dutch	Russian	Swedish	Korean	Norwegian	Danish	Finnish	Polish	Hungarian	Czech	Persian	Thai
GP1	J	●																					
GP2	US CND AUS Vietnam		●	●		●	●		●	●													
GP3	AEP UK		●	●	●	●	●	●				●	●	●		●	●	●	●	●	●		
GP4	E JE HK CH KR BR		●			●		●	●	●	●				●							●	●

• Abbreviation

J : Japanese model
CND : Canadian model
AUS : Australian model
JE : Tourist model
HK : Hong Kong model
CH : Chinese model
KR : Korea model
BR : Brazilian model

5-2. LISTA DE PEÇAS ELÉTRICAS

Ref. No.	Part No.	Description
	A-1176-928-A	SY-150 BOARD, COMPLETE (SERVICE)(GP4)

(Refer to the table of page 5-1 about language of SY-150 board.)		
(This complete board is including CP301 (CH-199 board))		
< COMPOSITION CIRCUIT BLOCK >		
CP301	A-1186-771-A	CH-199 BOARD, COMPLETE
< BATTERY >		
△ BT001	1-756-539-21	BATTERY, LITHIUM SECONDARY
< CAPACITOR >		
C003	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C004	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V
C005	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V
C006	1-100-966-91	CERAMIC CHIP 10uF 20% 10V
C010	1-164-850-11	CERAMIC CHIP 10PF 0.5PF 50V
C011	1-164-852-11	CERAMIC CHIP 12PF 5% 50V
C012	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C014	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C015	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C016	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C017	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C019	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C020	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
* C021	1-112-298-91	CERAMIC CHIP 1uF 10% 16V
C023	1-164-874-11	CERAMIC CHIP 100PF 5% 50V
C024	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C025	1-100-591-91	CERAMIC CHIP 1uF 10% 25V
C027	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C028	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C029	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C031	1-100-671-11	CERAMIC CHIP 4.7uF 20% 25V
C033	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C034	1-107-819-11	CERAMIC CHIP 0.022uF 10% 16V
C035	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C036	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C038	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C040	1-127-820-11	CERAMIC CHIP 4.7uF 10% 16V
C049	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C055	1-100-565-91	CERAMIC CHIP 0.47uF 10% 35V
C057	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C063	1-119-923-11	CERAMIC CHIP 0.047uF 10% 10V
C064	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C101	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C102	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C103	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C105	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C106	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C107	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C108	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C109	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V

Ref. No.	Part No.	Description
C110	1-164-939-11	CERAMIC CHIP 0.0022uF 10% 50V
C111	1-164-939-11	CERAMIC CHIP 0.0022uF 10% 50V
C114	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C115	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C116	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C117	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C118	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C119	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C120	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C121	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C122	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C123	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C125	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C126	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C127	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C128	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C129	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C130	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C131	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C132	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C133	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C134	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C135	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C136	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C137	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C138	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C139	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C140	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C142	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C145	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C149	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C150	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C151	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C153	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C203	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C204	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C205	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C206	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C207	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C208	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C209	1-100-786-91	TANTAL. CHIP 22uF 20% 6.3V
C210	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C211	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C212	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C213	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C214	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C301	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V
C302	1-104-851-11	TANTAL. CHIP 10uF 20% 10V
C303	1-137-988-91	CERAMIC CHIP 1uF 10% 35V
C304	1-113-992-11	TANTAL. CHIP 3.3uF 20% 35V
C305	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C306	1-119-751-11	TANTAL. CHIP 22uF 20% 16V
C307	1-100-505-91	CERAMIC CHIP 0.1uF 20% 16V
C308	1-113-992-11	TANTAL. CHIP 3.3uF 20% 35V
C314	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V

Ref. No.	Part No.	Description			
C315	1-128-964-91	TANTAL. CHIP	100uF	20%	6.3V
C316	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V
C317	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V
C318	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C319	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C401	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C402	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C403	1-100-663-11	TANTAL. CHIP	22uF	20%	10V
C501	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C502	1-135-993-11	TANTAL. CHIP	33uF	20%	10V
C503	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C505	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C508	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C510	1-165-897-11	TANTAL. CHIP	22uF	20%	10V
C511	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C512	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C513	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C515	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C517	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C518	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C522	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C527	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C528	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C529	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C530	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C531	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C532	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C533	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C534	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C535	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C536	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C537	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C538	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C541	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C542	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C543	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C544	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C545	1-128-934-61	CERAMIC CHIP	0.33uF	10%	10V
C546	1-128-934-61	CERAMIC CHIP	0.33uF	10%	10V
C601	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C602	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C603	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V
C604	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C605	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C606	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C607	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C608	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C609	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C610	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C611	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C612	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C613	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C614	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C615	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C616	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C617	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C618	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C619	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			
C620	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C701	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C704	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C705	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C708	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C709	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C710	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C711	1-100-786-91	TANTAL. CHIP	22uF	20%	6.3V
C712	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C713	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C714	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C715	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C716	1-165-897-11	TANTAL. CHIP	22uF	20%	10V

< CONNECTOR >

CN001	1-580-057-11	PIN, CONNECTOR (SMD) 4P
* CN301	1-816-057-51	CONNECTOR, FPC (ZIF) 39P
* CN401	1-816-057-51	CONNECTOR, FPC (ZIF) 39P
* CN501	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P
CN601	1-794-375-21	PIN, CONNECTOR 2P
CN602	1-794-375-21	PIN, CONNECTOR 2P
* CN651	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P
CN701	1-819-254-51	CONNECTOR, FFC/FPC (ZIF) 12P
* CN702	1-815-333-51	CONNECTOR, FPC (ZIF) 33P
* CN703	1-816-649-51	FFC/FPC CONNECTOR (LIF) 22P
* CN704	1-819-257-51	CONNECTOR, FFC/FPC (ZIF) 14P
* CN705	1-816-643-51	FFC/FPC CONNECTOR (LIF) 10P
CN706	1-819-254-51	CONNECTOR, FFC/FPC (ZIF) 12P
CN707	1-816-688-51	CONNECTOR, FPC (ZIF) 29P

< DIODE >

D001	6-500-813-01	DIODE MA2SD32008S0
D002	6-500-813-01	DIODE MA2SD32008S0
D003	6-500-813-01	DIODE MA2SD32008S0
D301	8-719-056-23	DIODE MA2S111-(K8).S0
D501	6-500-813-01	DIODE MA2SD32008S0
D502	6-500-813-01	DIODE MA2SD32008S0
D601	8-719-056-23	DIODE MA2S111-(K8).S0
D651	6-500-776-01	DIODE MAZW068H0LS0
D652	6-500-776-01	DIODE MAZW068H0LS0
D653	8-719-056-54	DIODE MAZS068008S0
D654	8-719-056-23	DIODE MA2S111-(K8).S0
D701	6-500-941-01	DIODE MAZS056008S0

< FUSE >

△ F001	1-576-416-21	FUSE 2A/36V
△ F002	1-576-416-21	FUSE 2A/36V
△ F003	1-576-570-21	FUSE, MICRO (1608 TYPE) 0.63A/32V

< FERRITE BEAD >

FB001	1-469-324-21	INDUCTOR (EMI FERRITE) (2012)
FB101	1-500-284-21	INDUCTOR, FERRITE BEAD
FB102	1-216-864-11	SHORT CHIP 0 (Note1)
FB103	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB104	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)

Note 1:
SHORT CHIP is mounted to the location where FB102 is printed.

Ref. No.	Part No.	Description
FB105	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB106	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB107	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB108	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)
FB301	1-469-082-21	INDUCTOR, FERRITE BEAD (1005)
FB302	1-469-082-21	INDUCTOR, FERRITE BEAD (1005)
FB308	1-400-331-11	FERRITE, EMI (SMD) (1005)
FB309	1-400-620-21	INDUCTOR, FERRITE BEAD (1005)
FB651	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)
FB701	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)
< IC >		
* IC001	6-709-120-01	IC SC901571VOR2
* IC101	8-753-251-12	IC CXD3199GG-T6
* IC201	Not supplied	IC PH28F320W30TD70-A02 (Note1)
* IC202	6-709-151-01	IC KFG5616U1A-DIB5T
* IC203	6-708-803-01	IC K4M56323PG-HG75T
IC301	6-703-977-01	IC R1114Q331D-TR-FA
IC401	6-708-988-01	IC LV8053LG-TLM-E
IC501	6-707-643-01	IC TPS61027DRCR
* IC503	6-708-445-01	IC R1114Q291D-TR-FA
* IC504	6-709-026-01	IC R2J30500LG
* IC505	6-708-457-01	IC R1114Q151D-TR-FA
IC506	8-759-489-19	IC uPC6756GR-8JG-E2
* IC507	6-709-332-01	IC TK70685HCL-G
* IC601	6-708-096-01	IC NJW1330RB1 (TE2)
IC602	6-707-336-01	IC BH6414GLU-E2
* IC603	6-708-445-01	IC R1114Q291D-TR-FA
* IC701	6-708-464-01	IC R1114Q251D-TR-FA
< COIL >		
L001	1-469-967-21	INDUCTOR 10uH
L003	1-456-995-22	INDUCTOR 4.7uH
L004	1-456-995-22	INDUCTOR 4.7uH
L005	1-456-995-22	INDUCTOR 4.7uH
L006	1-456-995-22	INDUCTOR 4.7uH
L008	1-456-995-22	INDUCTOR 4.7uH
L009	1-456-995-22	INDUCTOR 4.7uH
L011	1-469-555-21	INDUCTOR 10uH
L101	1-469-967-21	INDUCTOR 10uH
L102	1-469-967-21	INDUCTOR 10uH
L201	1-400-588-11	INDUCTOR 10uH
L301	1-469-561-21	INDUCTOR 100uH
L302	1-469-967-21	INDUCTOR 10uH
L303	1-400-317-21	INDUCTOR 100uH
L304	1-469-967-21	INDUCTOR 10uH
L503	1-456-995-22	INDUCTOR 4.7uH
L601	1-469-555-21	INDUCTOR 10uH
L602	1-400-588-11	INDUCTOR 10uH
L701	1-216-295-91	SHORT CHIP 0 (Note2)
L702	1-412-006-31	INDUCTOR 10uH
L703	1-216-295-91	SHORT CHIP 0 (Note2)
L704	1-400-588-11	INDUCTOR 10uH
L705	1-400-588-11	INDUCTOR 10uH

Note 1 :

A service for IC201 is not available because an adjustment is required before replacement.

Ref. No.	Part No.	Description
< LINE FILTER >		
LF651	1-456-583-11	COMMON MODE CHOKE COIL
< TRANSISTOR >		
Q001	8-729-056-01	TRANSISTOR MCH3405-TL-E
Q002	6-550-351-01	TRANSISTOR CPH5812-S-TL-E
Q003	6-551-304-01	TRANSISTOR MTM231230LSO
Q004	8-729-053-76	TRANSISTOR CPH5802-TL-E-S
Q301	8-729-053-58	TRANSISTOR RN1904FE (TPLR3)
Q503	6-550-094-01	TRANSISTOR EMH2-T2R
Q504	6-550-239-01	TRANSISTOR DTA144EMT2L
Q701	8-729-042-26	TRANSISTOR 2SB1462J-QR (K8).SO
Q702	8-729-054-52	TRANSISTOR UP04216008SO
< RESISTOR >		
R001	1-218-935-11	RES-CHIP 33 5% 1/16W
R002	1-218-949-11	RES-CHIP 470 5% 1/16W
R004	1-218-983-11	RES-CHIP 330K 5% 1/16W
R005	1-219-570-11	METAL CHIP 10M 5% 1/10W
R012	1-218-990-81	SHORT CHIP 0
R013	1-220-874-81	METAL CHIP 15 0.5% 1/16W
R016	1-208-911-11	METAL CHIP 10K 0.5% 1/16W
R017	1-218-990-81	SHORT CHIP 0
R018	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R020	1-218-989-11	RES-CHIP 1M 5% 1/16W
R023	1-208-927-11	METAL CHIP 47K 0.5% 1/16W
R029	1-218-935-11	RES-CHIP 33 5% 1/16W
R030	1-218-929-11	RES-CHIP 10 5% 1/16W
R031	1-218-977-11	RES-CHIP 100K 5% 1/16W
R032	1-218-929-11	RES-CHIP 10 5% 1/16W
R057	1-218-990-81	SHORT CHIP 0
R059	1-218-989-11	RES-CHIP 1M 5% 1/16W
R068	1-218-965-11	RES-CHIP 10K 5% 1/16W
R072	1-216-864-11	SHORT CHIP 0
R074	1-218-990-81	SHORT CHIP 0
R075	1-218-990-81	SHORT CHIP 0
R076	1-218-990-81	SHORT CHIP 0
R103	1-218-990-81	SHORT CHIP 0
R106	1-208-679-11	METAL CHIP 680 0.5% 1/16W
R109	1-218-973-11	RES-CHIP 47K 5% 1/16W
R112	1-208-683-11	METAL CHIP 1K 0.5% 1/16W
R114	1-218-985-11	RES-CHIP 470K 5% 1/16W
R115	1-208-683-11	METAL CHIP 1K 0.5% 1/16W
R117	1-218-941-81	RES-CHIP 100 5% 1/16W
R118	1-218-941-81	RES-CHIP 100 5% 1/16W
R119	1-218-941-81	RES-CHIP 100 5% 1/16W
R120	1-218-941-81	RES-CHIP 100 5% 1/16W
R121	1-218-939-11	RES-CHIP 68 5% 1/16W
R122	1-218-939-11	RES-CHIP 68 5% 1/16W
R125	1-218-965-11	RES-CHIP 10K 5% 1/16W
R126	1-218-965-11	RES-CHIP 10K 5% 1/16W
R127	1-218-965-11	RES-CHIP 10K 5% 1/16W
R128	1-218-965-11	RES-CHIP 10K 5% 1/16W
R129	1-218-965-11	RES-CHIP 10K 5% 1/16W
R130	1-218-965-11	RES-CHIP 10K 5% 1/16W

Note 2:

SHORT CHIP is mounted to the location where L701 and L703 are printed.

Ref. No.	Part No.	Description					Ref. No.	Part No.	Description				
R131	1-218-965-11	RES-CHIP	10K	5%	1/16W		R541	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R132	1-218-965-11	RES-CHIP	10K	5%	1/16W		R542	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R133	1-208-935-11	METAL CHIP	100K	0.5%	1/16W		R543	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R135	1-208-911-11	METAL CHIP	10K	0.5%	1/16W		R544	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R136	1-218-973-11	RES-CHIP	47K	5%	1/16W		R545	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R137	1-208-943-11	METAL CHIP	220K	0.5%	1/16W		R546	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R138	1-218-965-11	RES-CHIP	10K	5%	1/16W		R547	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R139	1-218-965-11	RES-CHIP	10K	5%	1/16W		R548	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R140	1-218-981-11	RES-CHIP	220K	5%	1/16W		R549	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R141	1-218-981-11	RES-CHIP	220K	5%	1/16W		R553	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W		R555	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R145	1-218-965-11	RES-CHIP	10K	5%	1/16W		R557	1-218-967-11	RES-CHIP	15K	5%	1/16W	
R147	1-218-990-81	SHORT CHIP	0				R558	1-218-967-11	RES-CHIP	15K	5%	1/16W	
R148	1-218-953-11	RES-CHIP	1K	5%	1/16W		R602	1-218-929-11	RES-CHIP	10	5%	1/16W	
R150	1-218-990-81	SHORT CHIP	0				R603	1-218-939-11	RES-CHIP	68	5%	1/16W	
R152	1-218-990-81	SHORT CHIP	0				R604	1-218-955-11	RES-CHIP	1.5K	5%	1/16W	
R153	1-218-965-11	RES-CHIP	10K	5%	1/16W		R605	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R301	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W		R606	1-218-972-11	RES-CHIP	39K	5%	1/16W	
R302	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W		R607	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
R304	1-218-977-11	RES-CHIP	100K	5%	1/16W		R651	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R307	1-218-953-11	RES-CHIP	1K	5%	1/16W		R652	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R308	1-218-977-11	RES-CHIP	100K	5%	1/16W		R713	1-218-978-11	RES-CHIP	120K	5%	1/16W	
R309	1-218-990-81	SHORT CHIP	0				R714	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R310	1-218-933-11	RES-CHIP	22	5%	1/16W		R715	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R311	1-218-990-81	SHORT CHIP	0				R716	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R312	1-218-990-81	SHORT CHIP	0				R747	1-218-990-81	SHORT CHIP	0			
R313	1-218-990-81	SHORT CHIP	0				R749	1-218-990-81	SHORT CHIP	0			
R314	1-218-990-81	SHORT CHIP	0				R751	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R316	1-218-990-81	SHORT CHIP	0				R752	1-218-945-11	RES-CHIP	220	5%	1/16W	
R318	1-218-990-81	SHORT CHIP	0										
									< SENSOR >				
R319	1-218-990-81	SHORT CHIP	0										
R320	1-218-990-81	SHORT CHIP	0				SE501	1-479-022-51	SENSOR,ANGULAR VELOCITY (PITCH)				
R321	1-218-990-81	SHORT CHIP	0				SE502	1-479-022-61	SENSOR,ANGULAR VELOCITY (YAW)				
R409	1-208-715-11	METAL CHIP	22K	0.5%	1/16W								
R410	1-208-715-11	METAL CHIP	22K	0.5%	1/16W				< VIBRATOR >				
R411	1-208-927-11	METAL CHIP	47K	0.5%	1/16W		X001	1-767-994-23	VIBRATOR, CRYSTAL 32.768kHz				
R432	1-211-969-11	METAL CHIP	10	0.5%	1/10W		* X101	1-813-403-21	QUARTZ CRYSTAL OSCILLATOR 12MHz				
R433	1-211-969-11	METAL CHIP	10	0.5%	1/10W								
R434	1-211-969-11	METAL CHIP	10	0.5%	1/10W								
R435	1-211-969-11	METAL CHIP	10	0.5%	1/10W								
R437	1-218-948-11	RES-CHIP	390	5%	1/16W								
R438	1-218-948-11	RES-CHIP	390	5%	1/16W								
R509	1-208-721-11	METAL CHIP	39K	0.5%	1/16W								
R511	1-218-970-11	RES-CHIP	27K	5%	1/16W								
R512	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W								
R513	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W								
R515	1-208-911-11	METAL CHIP	10K	0.5%	1/16W								
R517	1-208-721-11	METAL CHIP	39K	0.5%	1/16W								
R519	1-218-970-11	RES-CHIP	27K	5%	1/16W								
R520	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W								
R521	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W								
R524	1-208-911-11	METAL CHIP	10K	0.5%	1/16W								
R526	1-218-965-11	RES-CHIP	10K	5%	1/16W								
R527	1-218-990-81	SHORT CHIP	0										
R535	1-218-989-11	RES-CHIP	1M	5%	1/16W								
R536	1-218-989-11	RES-CHIP	1M	5%	1/16W								
R537	1-218-965-11	RES-CHIP	10K	5%	1/16W								
R538	1-218-965-11	RES-CHIP	10K	5%	1/16W								
R539	1-218-969-11	RES-CHIP	22K	5%	1/16W								
R540	1-218-969-11	RES-CHIP	22K	5%	1/16W								

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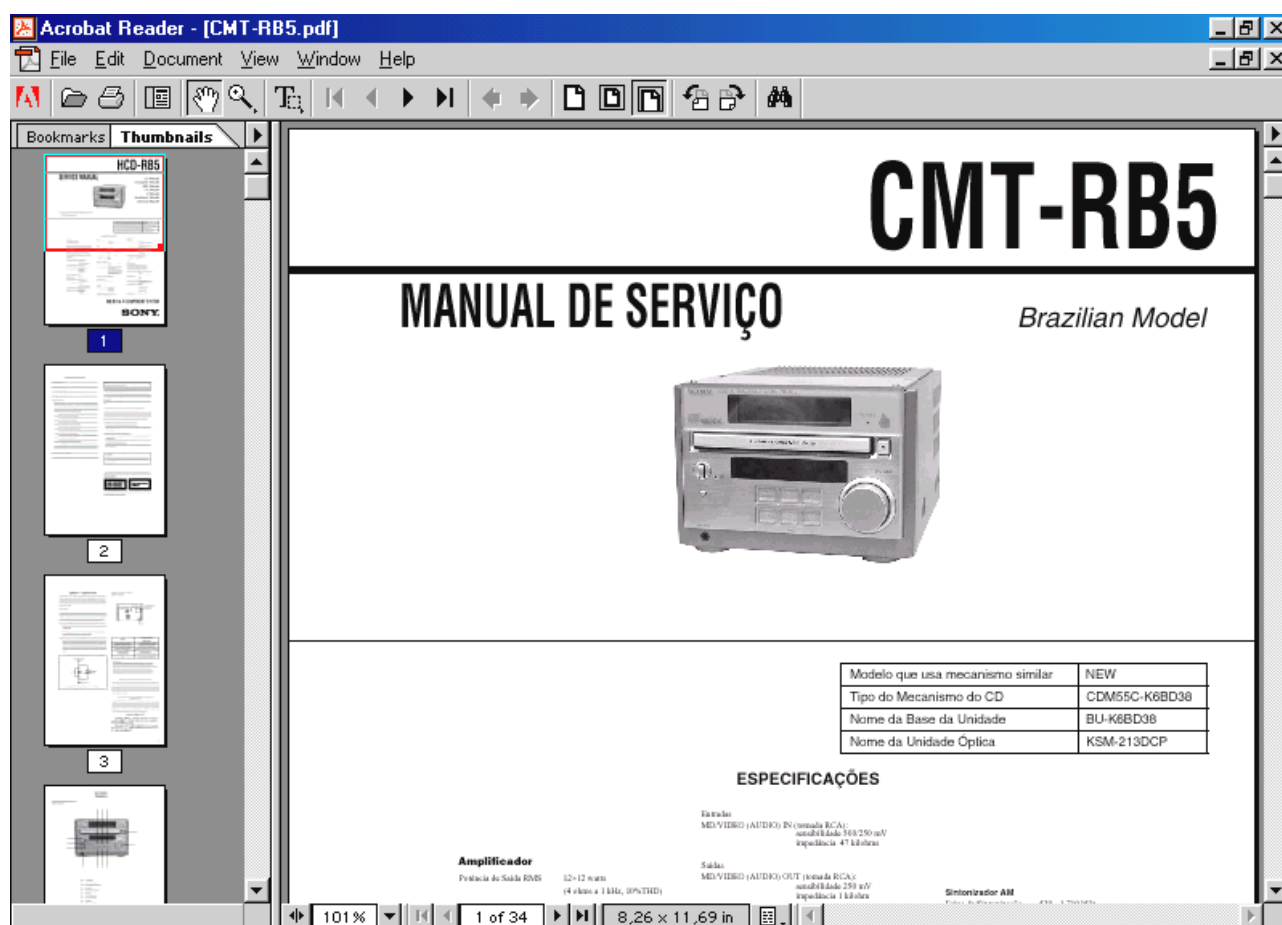


Guia de Comandos Básicos do Acrobat Reader 5.05

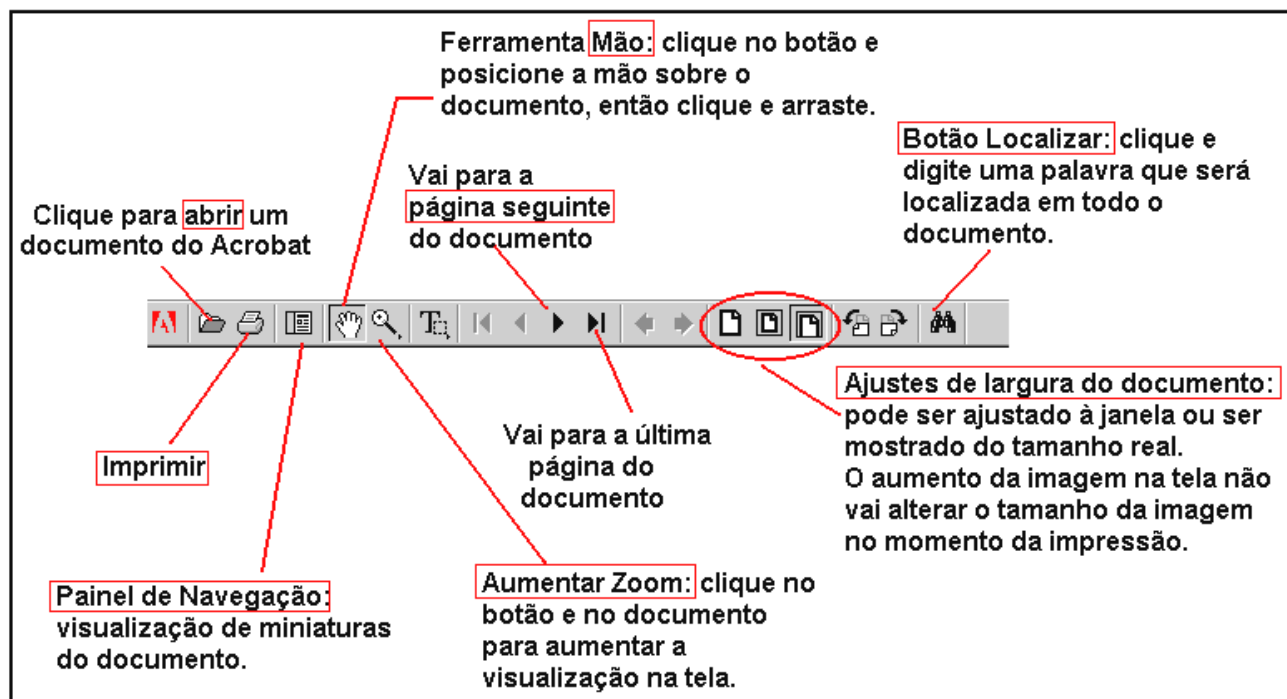


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Esta é a tela do programa, quando se abre um manual:



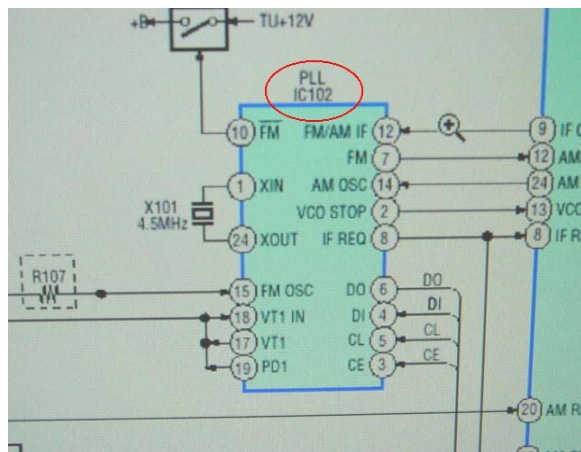
Barra de Comandos



Recurso de Localização de Componentes

Alguns manuais de serviço estão habilitados com uma função que permite localizar mais facilmente um circuito integrado (IC) em seu diagrama esquemático correspondente, diagrama em blocos ou placa de circuito impresso.

Para isso, abra um manual de serviço, por exemplo o do MHC-DX30 e visualize uma página da lista de peças elétricas, onde existam alguns IC's listados. Ao posicionar o ponteiro do mouse sobre a linha onde está um IC, sobre sua localização, ou valor, você vai verificar que aparece uma "mãozinha", na verdade, o dedo indicador que fica apontando a linha. Se você der um clique, você será levado pelo programa à página do diagrama esquemático onde se encontra o referido IC que você selecionou. Vamos ilustrar o que foi explicado logo a seguir:



Abra a página correspondente ao diagrama em bloco e posicione o ponteiro do mouse sobre o IC escolhido. Quando o cursor tornar-se uma "mãozinha" dê um clique sobre o IC.

- O painel de navegação serve para agilizar o acesso a outras páginas que não estão sendo visualizadas. Para visualizar uma dessas miniaturas em seu tamanho normal, basta clicar duas vezes sobre ela e então esta será exibida na tela.
- Não é possível alterar texto, figuras ou qualquer item do documento no Acrobat Reader 5.0. Este programa é usado somente para visualização e impressão de documentos PDF.
- Diagramas e demais folhas do documentos PDF só poderão ser impressos em tamanho maior caso a impressora suporte papel com dimensão superior ao A4, carta ou semelhante. Do contrário só poderá ser impresso no tamanho A4 padrão.

Engenharia da Qualidade – Novembro 2003

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Orientação de Impressão no Acrobat Reader 5.05



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- Converta facilmente os documentos para Adobe PDF
- Compartilhe comentários e aprove ou proteja documentos com eficiência

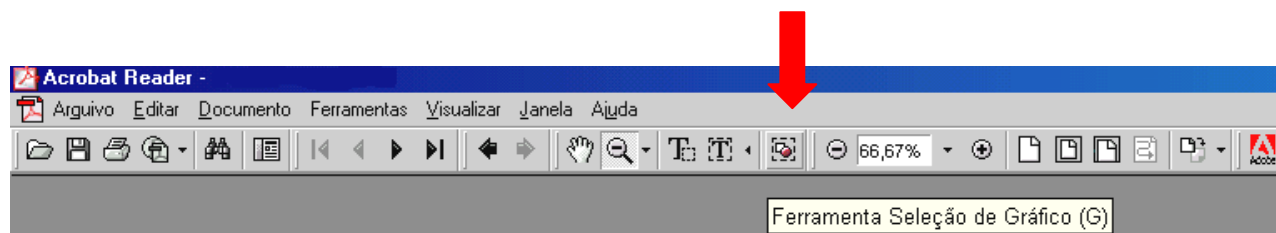
E muito mais!

É possível imprimir alguns quadros pré-selecionados de forma ampliada no Acrobat Reader. Esse comando é muito útil quando é necessária fazer a impressão de diagramas elétricos.

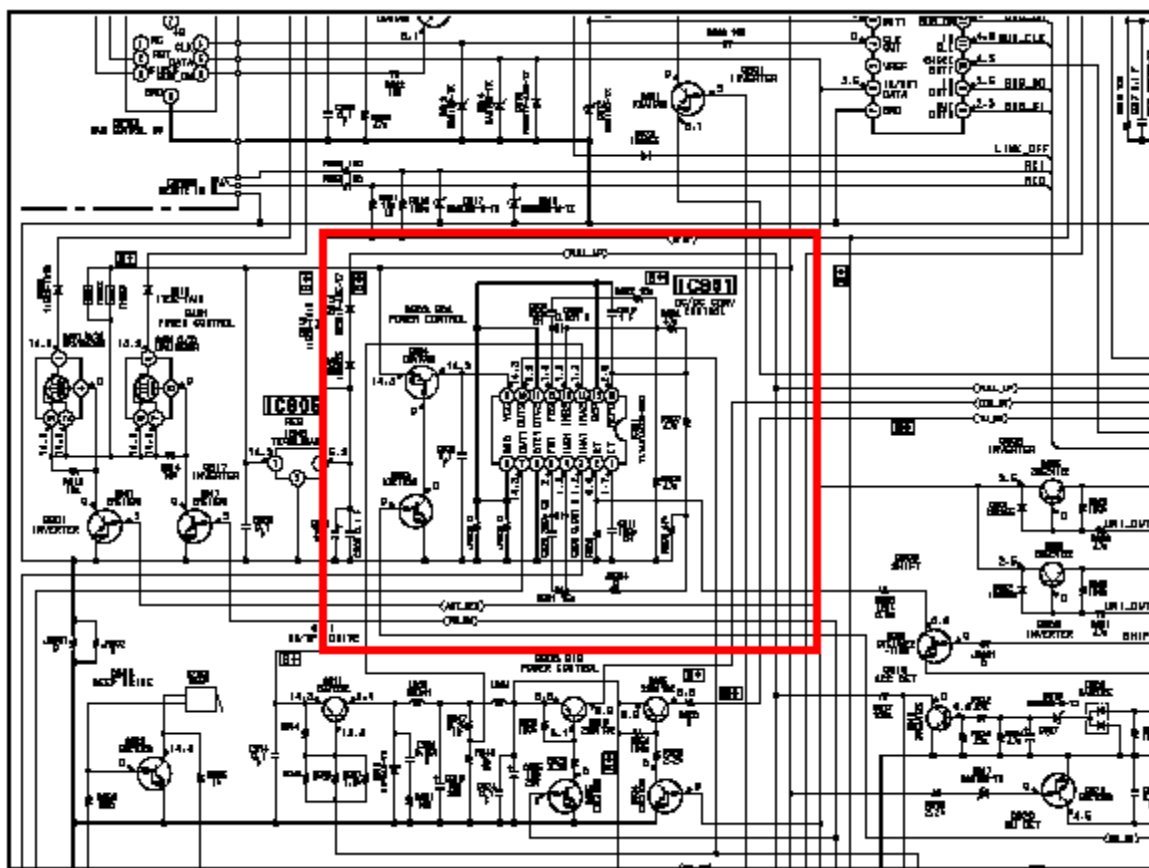
A sequência abaixo mostra, passo a passo como selecionar uma parte de uma folha qualquer (nesse exemplo usaremos um diagrama elétrico) e configurar sua impressão.

Temos no Acrobat Reader a barra abaixo. Leve o cursor do mouse até o botão indicado pela seta e fique pressionando o botão do mouse.

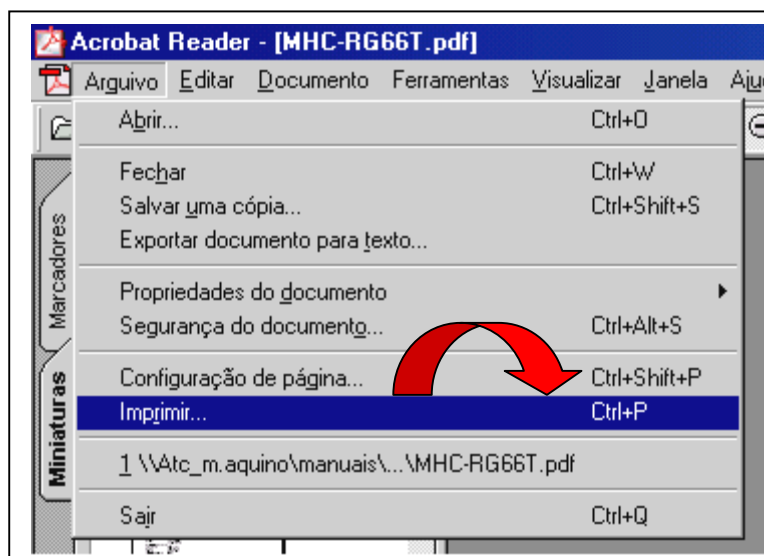
Segurando o botão uma barra oculta aparecerá, então expanda conforme abaixo. O botão final a ser clicado para que o comando seja selecionado é o da **FERRAMENTA DE SELEÇÃO DE GRÁFICO (G)**



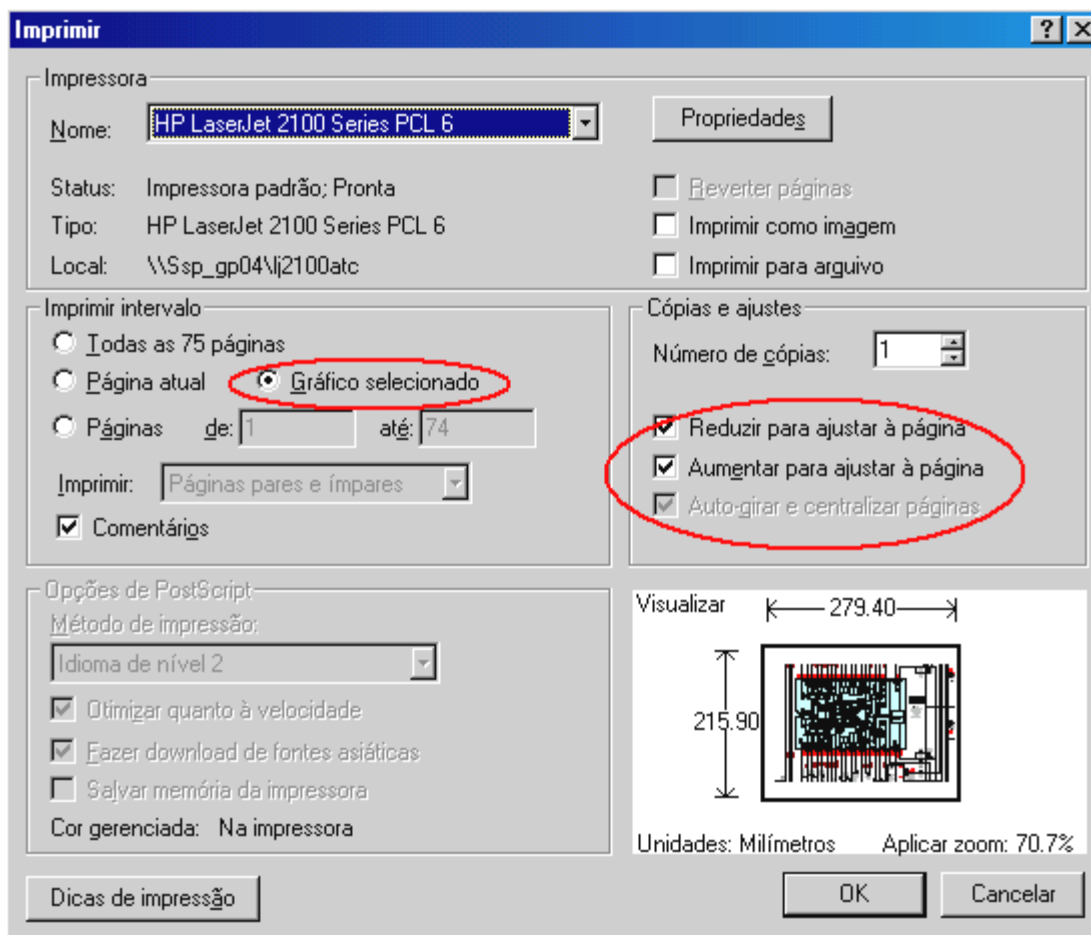
Agora com o cursor selecione uma área do diagrama que deseja imprimir de forma ampliada. A área escolhida nesse exemplo é o quadrado de linhas espessas.



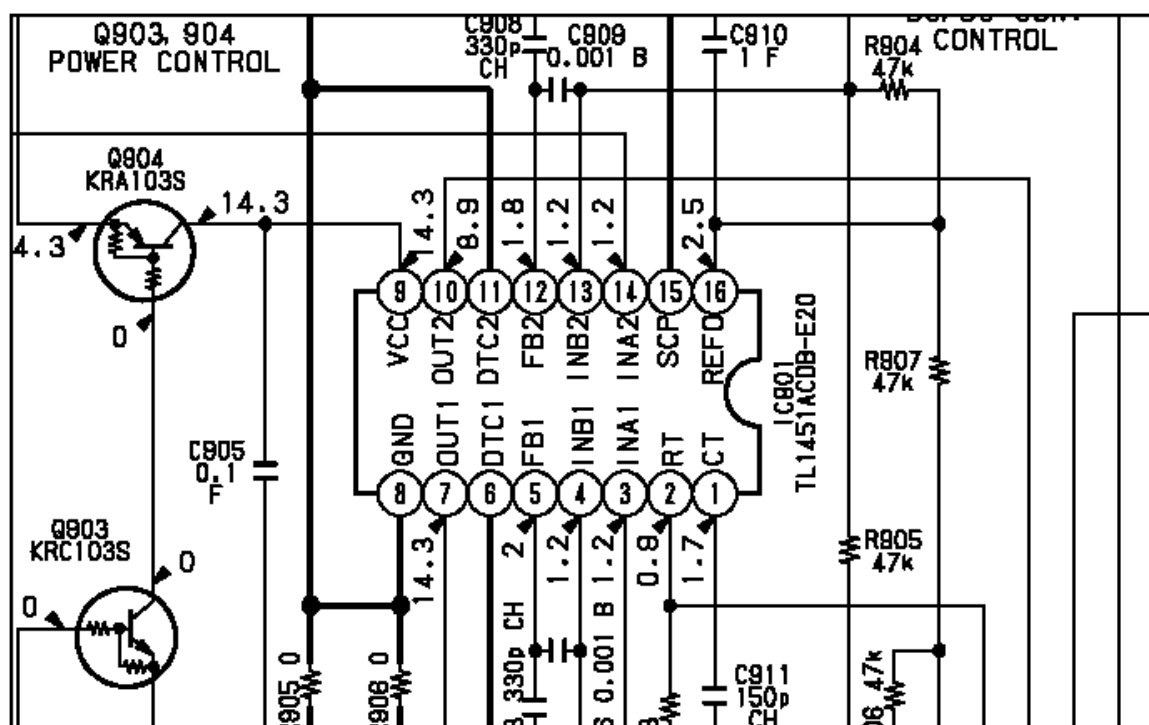
Agora vá até o menu de impressão seguindo o procedimento a seguir, clicando em **IMPRIMIR**, indicado pela seta:



Na janela que se abre verifique se as opções indicadas em vermelho (circuladas) estão habilitadas. Assim, quando imprimir a área do gráfico, esta parte será expandida por toda a folha de papel A4.



Após a impressão verificamos que o diagrama ficou realmente ampliado, conforme exemplo:



Notas

O mesmo procedimento pode ser repetido para outras páginas dos manuais, como lista de peças, bem como pode ser utilizado papel tamanho A3 (420 x 297 mm) para impressoras que suportem esse formato.

Outros comandos podem ser encontrados no “**Guia de Comandos Básicos do Acrobat Reader**”, que também consta neste CD e em anteriores.

Lembramos novamente que não é possível alterar texto, figuras ou qualquer item do documento no Acrobat Reader 5.05. Este programa é usado somente para visualização e impressão de documentos PDF.

Mais informações podem ser obtidas em “**Ajuda**”.

Dúvidas e sugestões devem ser encaminhadas para **Teruaki** através do e-mails:



teruaki_nakagawa@ssp.br.sony.com