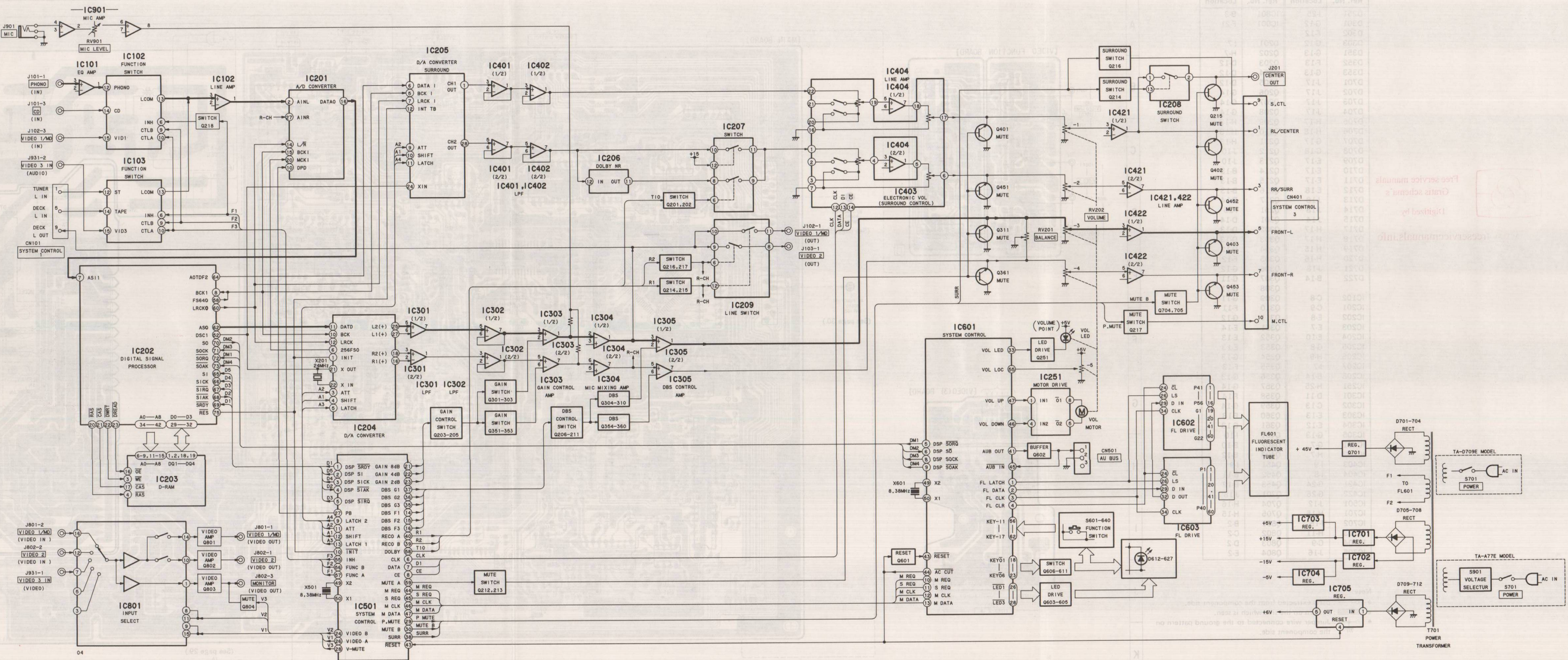


3-4. BLOCK DIAGRAM



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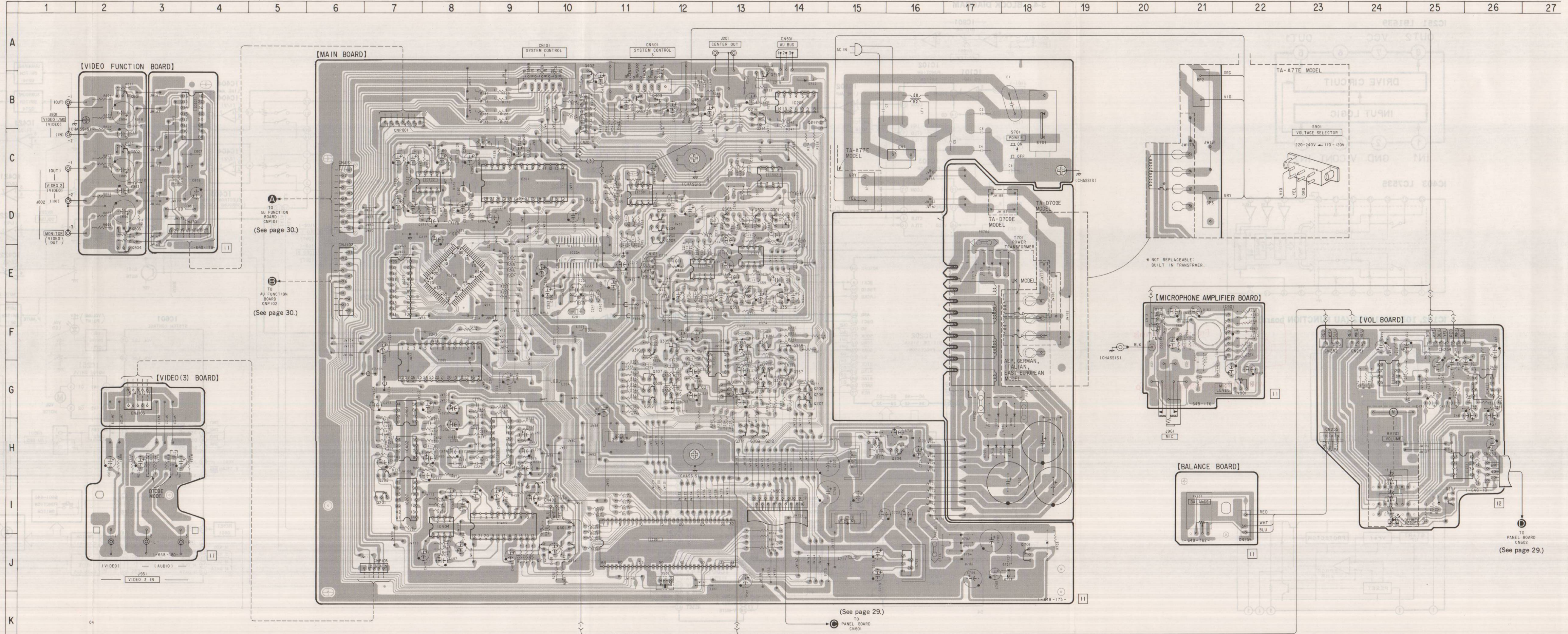
3-5. PRINTED WIRING BOARDS—MAIN SECTION (TYPE 1) — Refer to page 8 for Semiconductor Lead Layouts.

• Semiconductor Location

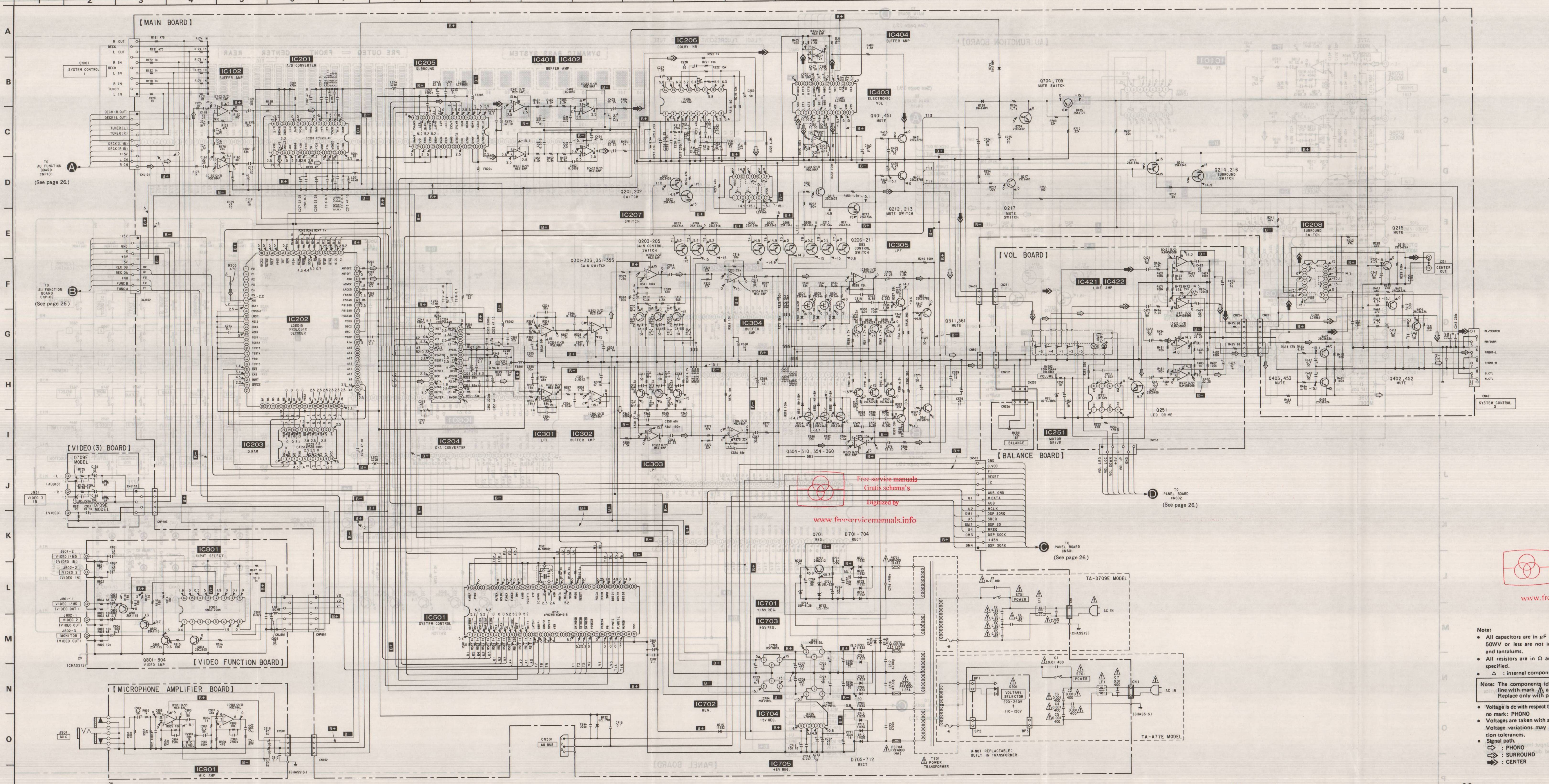
Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC901	F-21
D302	F-12		
D303	G-12	Q201	I-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702	J-17	Q206	G-14
D703	J-17	Q207	G-14
D704	J-17	Q208	G-14
D705	H-17	Q209	H-13
D706	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712	E-18	Q216	B-13
D713	J-18	Q217	B-14
D714	J-18	Q251	I-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721	J-18	Q306	G-12
D722	B-14	Q307	G-11
		Q308	G-11
		Q309	G-11
IC102	C-8	Q310	F-11
IC201	C-9	Q311	G-12
IC202	E-8	Q351	E-14
IC203	E-7	Q352	E-13
IC204	E-10	Q353	E-13
IC205	G-8	Q354	G-13
IC206	H-9	Q355	F-13
IC207	I-7	Q356	G-13
IC208	B-14	Q357	G-14
IC251	H-25	Q358	F-14
IC301	D-11	Q359	G-14
IC302	C-13	Q360	F-13
IC303	E-13	Q361	G-13
IC304	E-12	Q401	I-10
IC305	G-13	Q402	B-10
IC401	G-7	Q403	B-12
IC402	H-7	Q451	I-9
IC403	I-9	Q452	B-11
IC404	I-8	Q453	B-12
IC421	G-24	Q701	J-18
IC422	G-26	Q704	H-16
IC501	J-12	Q705	H-15
IC701	H-15	Q801	B-2
IC702	I-15	Q802	C-2
IC703	H-11	Q803	D-2
IC704	C-9	Q804	E-2
IC705	J-16		

Note:

- : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- ⊕ : Jumper wire connected to the ground pattern on the component side.



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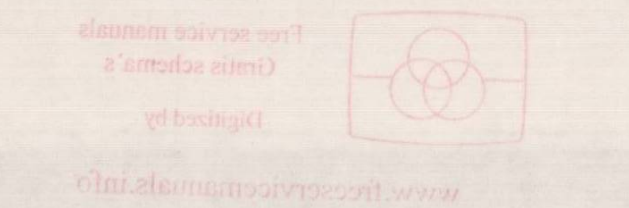
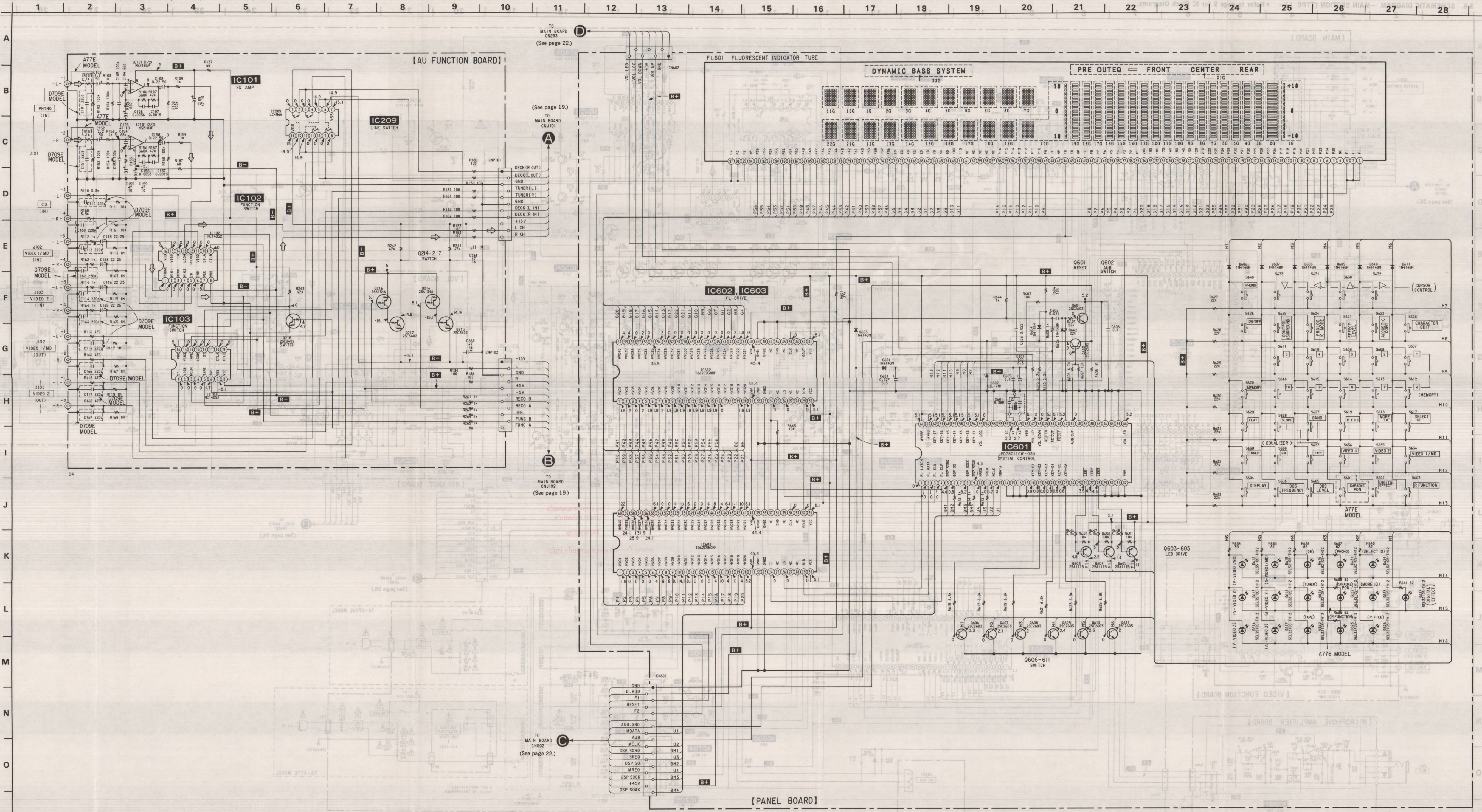
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Note:
 • All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 • All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 • Δ : internal component.

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

• Voltage is dc with respect to ground under no-signal conditions. no mark: PHONO
 • Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 • Signal path:
 \rightarrow : PHONO
 \rightarrow : SURROUND
 \rightarrow : CENTER

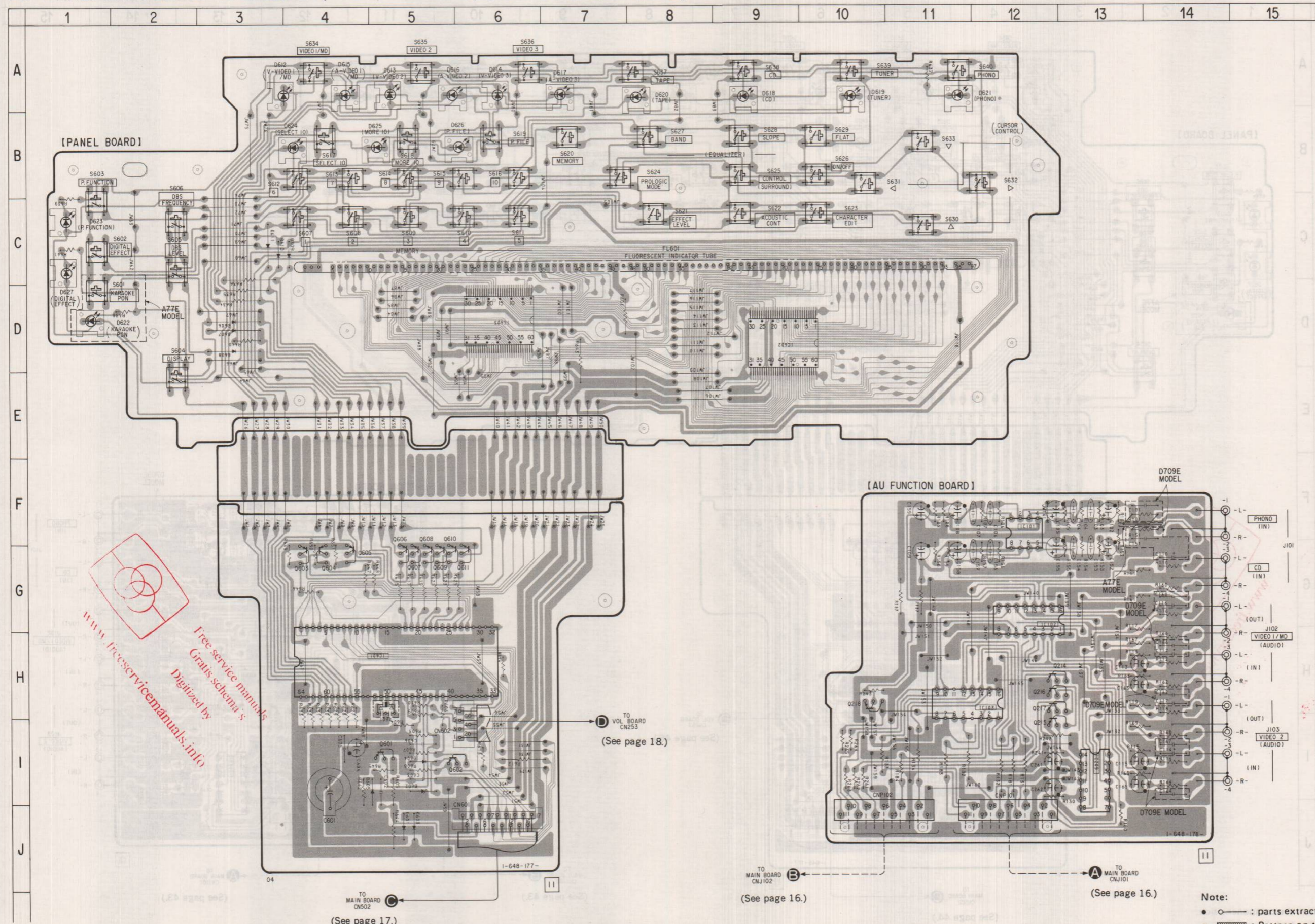
3-7. SCHEMATIC DIAGRAM—PANEL SECTION (TYPE I)— Refer to page 9 for IC Block Diagrams.



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- Note:
- All capacitors are in μF unless otherwise noted, pF: μpF . 50V or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
 - Voltage is taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 - \rightarrow : PHONO

3-8. PRINTED WIRING BOARDS—PANEL SECTION (TYPE I) — Refer to page 8 for Semiconductor Lead Layouts.



● Semiconductor Location

Ref. No.	Location
D601	J-5
D602	I-5
D603	J-5
D604	I-5
D605	I-4
D606	D-3
D607	D-3
D608	D-3
D609	C-4
D610	C-3
D611	C-3
D612	A-3
D613	A-5
D614	A-6
D615	A-4
D616	A-5
D617	A-7
D618	A-9
D619	A-10
D620	A-8
D621	A-11
(D622)	D-1
D623	C-1
D624	B-4
D625	B-5
D626	B-6
D627	C-1
IC101	F-12
IC102	G-12
IC103	H-11
IC209	I-13
IC601	H-5
IC602	D-9
IC603	D-6
Q214	H-12
Q215	I-12
Q216	H-12
Q217	H-12
Q218	H-10
Q601	I-5
Q602	I-5
Q603	G-4
Q604	G-4
Q605	G-4
Q606	G-5
Q607	G-5
Q608	G-5
Q609	G-5
Q610	G-5
Q611	G-6

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(See page 17.)

(See page 16.)

(See page 16.)

Note:
 ● ○ : parts extracted from the component side.
 ● ■ : Pattern on the side which is seen.

• Semiconductor Location

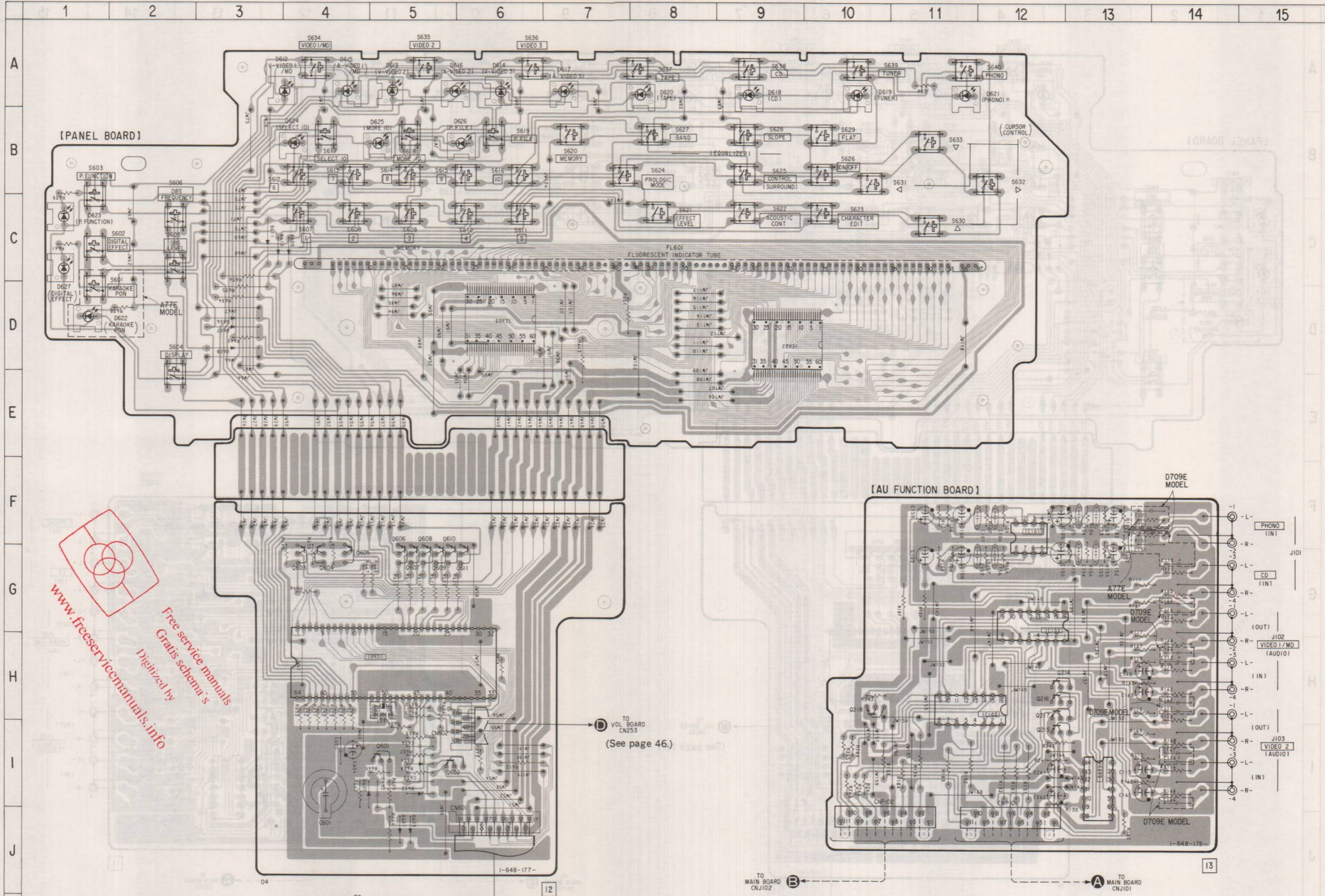
Ref. No.	Location
D601	J-5
D602	I-5
D603	J-5
D604	I-5
D605	I-4
D606	D-3
D607	D-3
D608	D-3
D609	C-4
D610	C-3
D611	C-3
D612	A-3
D613	A-5
D614	A-6
D615	A-4
D616	A-5
D617	A-7
D618	A-9
D619	A-10
D620	A-8
D621	A-11
(D622)	D-1
D623	C-1
D624	B-4
D625	B-5
D626	B-6
D627	C-1
IC101	F-12
IC102	G-12
IC103	H-11
IC209	I-13
IC601	H-5
IC602	D-9
IC603	D-6
Q214	H-12
Q215	I-12
Q216	H-12
Q217	H-12
Q218	H-10
Q601	I-5
Q602	I-5
Q603	G-4
Q604	G-4
Q605	G-4
Q606	G-5
Q607	G-5
Q608	G-5
Q609	G-5
Q610	G-5
Q611	G-6

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Note:

- : parts extracted from the component side.
- : Pattern on the side which is seen.

3-9. PRINTED WIRING BOARDS—PANEL SECTION (TYPE II)— • Refer to page 8 for Semiconductor Lead Layouts.



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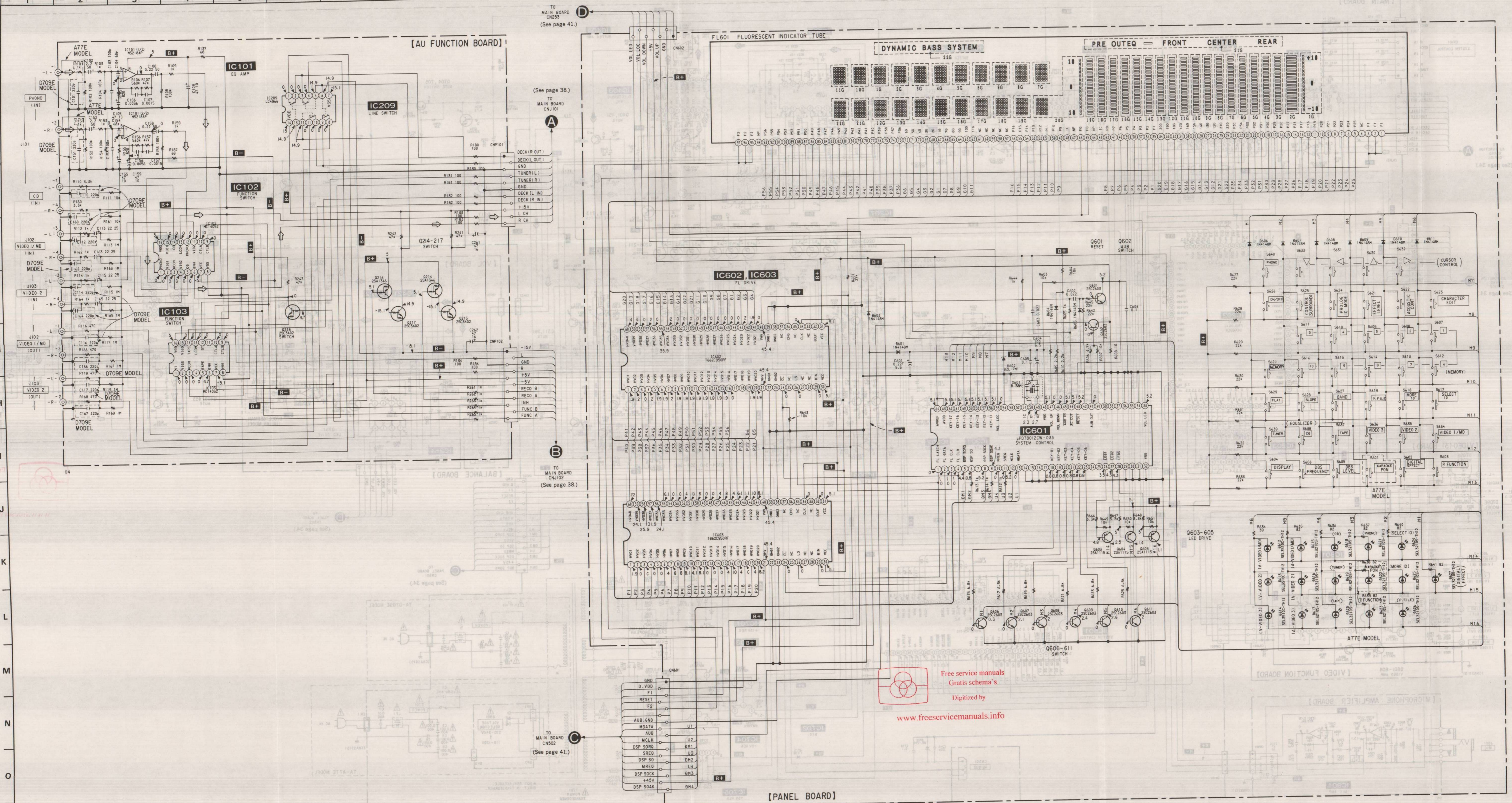
TO MAIN BOARD CN502 (See page 44.)

TO VOL BOARD CN253 (See page 46.)

TO MAIN BOARD CNJ102 (See page 43.)

TO MAIN BOARD CNJ101 (See page 43.)

3-10. SCHEMATIC DIAGRAM—PANEL SECTION (TYPE II)— Refer to page 9 for IC Block Diagrams.

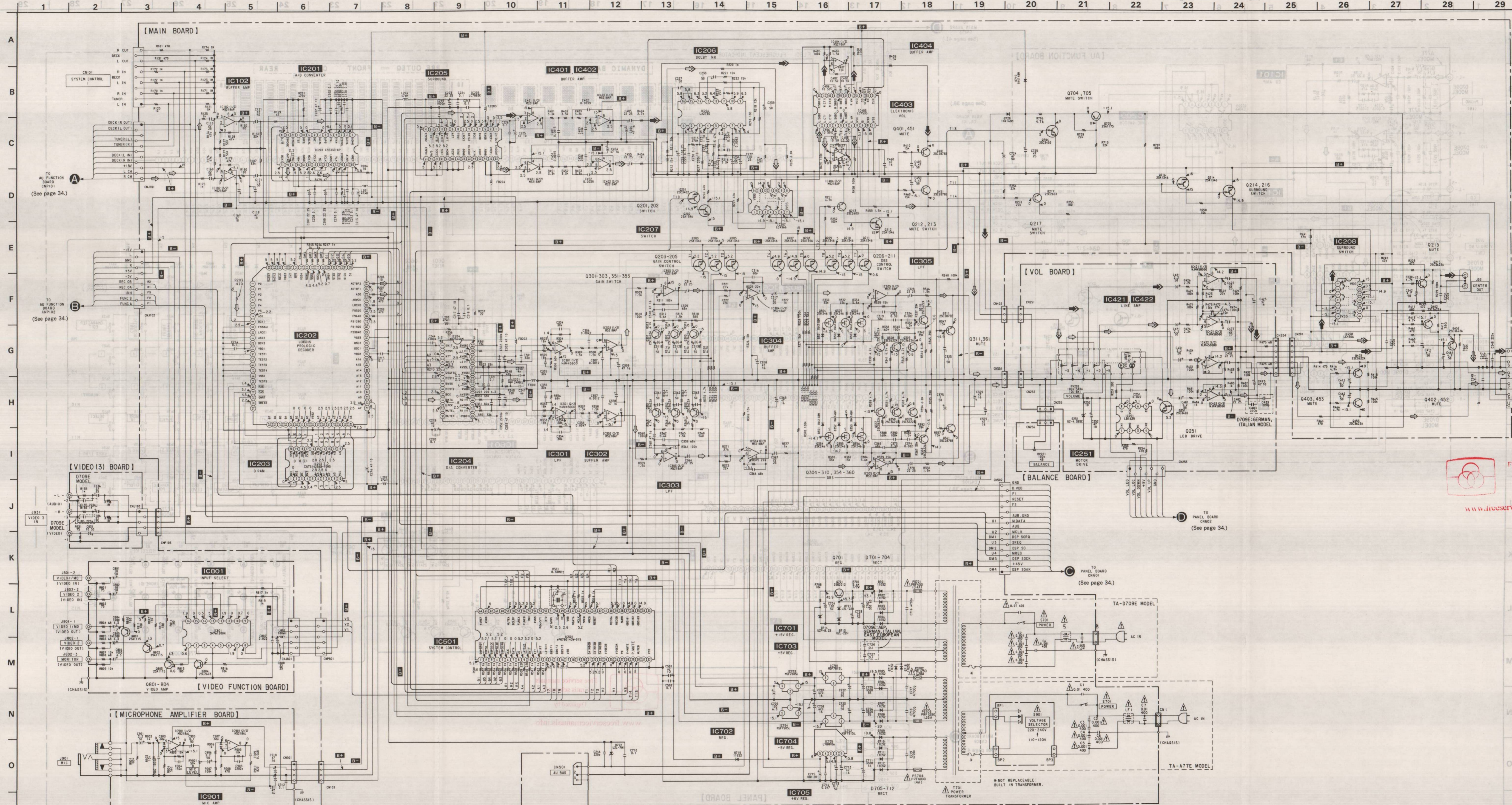


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- Note:
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{M}$ F
 - 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
 - Voltage is dc with respect to ground under no-signal conditions. no mark: PHONO
 - Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path
 - \square : PHONO

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3-11. SCHEMATIC DIAGRAM—MAIN SECTION (TYPE II) — Refer to page 9 for IC Block Diagrams.

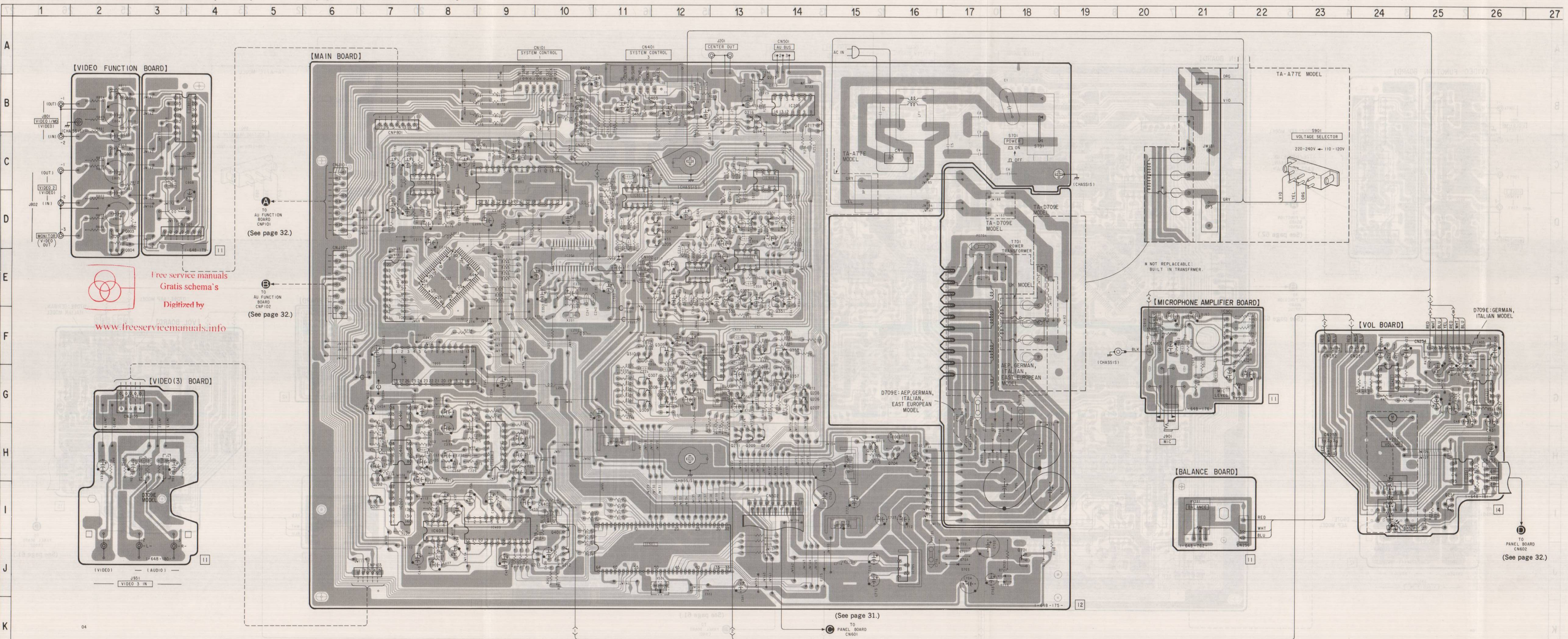


- Note:**
- All capacitors are in μF unless otherwise noted. μF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
- Note:** The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.
- Voltage is dc with respect to ground under no-signal conditions. no mark: PHONO
 - Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path
 - \rightarrow : PHONO
 - \rightarrow : SURROUND
 - \rightarrow : CENTER

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3-12. PRINTED WIRING BOARDS—MAIN SECTION (TYPE III) — Refer to page 8 for Semiconductor Lead Layouts.

3-12. PRINTED WIRING BOARDS—MAIN SECTION (TYPE II) — Refer to page 8 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC901	F-21
D302	F-12		
D303	G-12	Q201	I-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702	J-17	Q206	G-14
D703	J-17	Q207	G-14
D704	J-17	Q208	G-14
D705	H-17	Q209	H-13
D706	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712	E-18	Q216	B-13
D713	J-18	Q217	B-14
D714	J-18	Q251	I-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721	J-18	Q306	G-12
D722	B-14	Q307	G-11
		Q308	G-11
		Q309	G-11
IC102	C-8	Q310	F-11
IC201	C-9	Q311	G-12
IC202	E-8	Q351	E-14
IC203	E-7	Q352	E-13
IC204	E-10	Q353	E-13
IC205	G-8	Q354	G-13
IC206	H-9	Q355	F-13
IC207	I-7	Q356	G-13
IC208	B-14	Q357	G-14
IC251	H-25	Q358	F-14
IC301	D-11	Q359	G-14
IC302	C-13	Q360	F-13
IC303	E-13	Q401	I-10
IC304	E-12	Q402	B-10
IC305	G-13	Q403	B-12
IC401	G-7	Q451	I-9
IC402	H-7	Q452	B-11
IC403	I-9	Q453	B-12
IC404	I-8	Q701	J-18
IC421	G-24	Q704	H-16
IC422	G-26	Q705	H-15
IC501	J-12	Q801	B-2
IC701	H-15	Q802	C-2
IC702	I-15	Q803	D-2
IC703	H-11	Q804	E-2
IC704	C-9		
IC705	J-16		

Note:

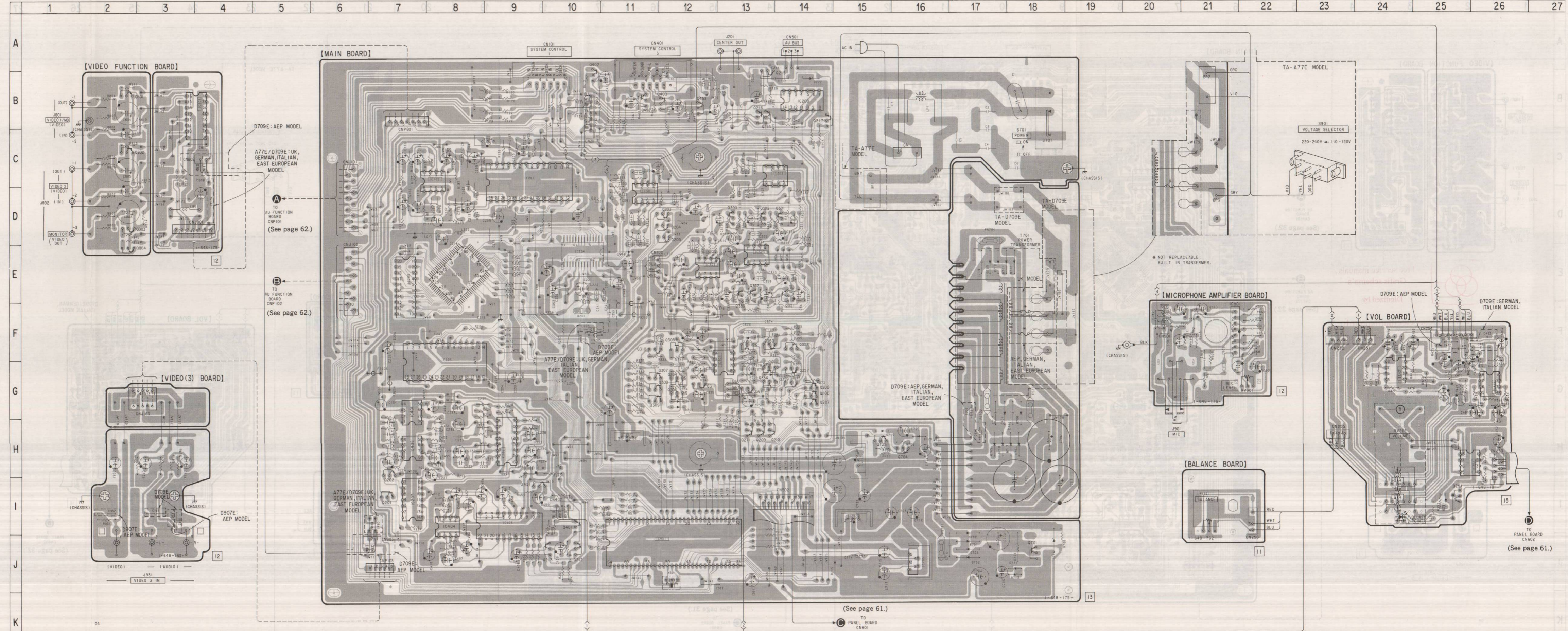
- : parts extracted from the component side.
- : Pattern on the side which is seen.
- : Jumper wire connected to the ground pattern on the component side.

3-13. PRINTED WIRING BOARDS—MAIN SECTION (TYPE III)— Refer to page 8 for Semiconductor Lead Layouts.

• Semiconductor Location

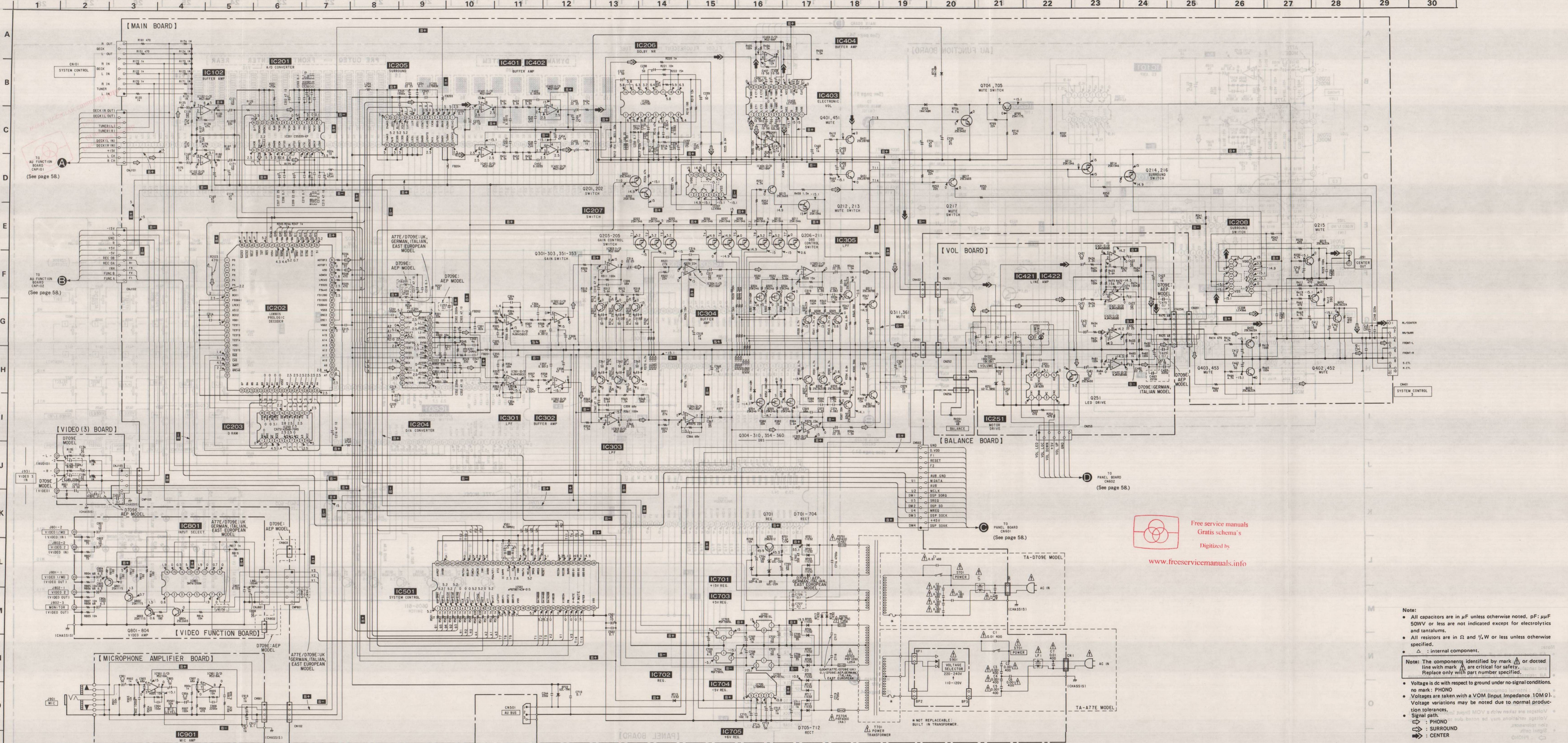
Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC901	F-21
D302	F-12		
D303	G-12	Q201	I-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702	J-17	Q206	G-14
D703	J-17	Q207	G-14
D704	J-17	Q208	G-14
D705	H-17	Q209	H-13
D706	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712	E-18	Q216	B-13
D713	J-18	Q217	B-14
D714	J-18	Q251	I-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721	J-18	Q306	G-12
D722	B-14	Q307	G-11
		Q308	G-11
IC102	C-8	Q309	G-11
IC201	C-9	Q310	F-11
IC202	E-8	Q311	G-12
IC203	E-7	Q351	E-14
IC204	E-10	Q352	E-13
IC205	G-8	Q353	E-13
IC206	H-9	Q354	G-13
IC207	I-7	Q355	F-13
IC208	B-14	Q356	G-13
IC251	H-25	Q357	G-14
IC301	D-11	Q358	F-14
IC302	C-13	Q359	G-14
IC303	E-13	Q360	F-13
IC304	E-12	Q361	G-13
IC305	G-13	Q401	I-10
IC401	G-7	Q402	B-10
IC402	H-7	Q403	B-12
IC403	I-9	Q451	I-9
IC404	I-8	Q452	B-11
IC421	G-24	Q453	B-12
IC422	G-26	Q701	J-18
IC501	J-12	Q704	H-16
IC701	H-15	Q705	H-15
IC702	I-15	Q801	B-2
IC703	H-11	Q802	C-2
IC704	C-9	Q803	D-2
IC705	J-16	Q804	E-2

Note:
 ○ : parts extracted from the component side.
 □ : Pattern on the side which is seen.
 ○—○ : Jumper wire connected to the ground pattern on the component side.



3-14. SCHEMATIC DIAGRAM—MAIN SECTION (TYPE III) — Refer to page 9 for IC Block Diagrams.

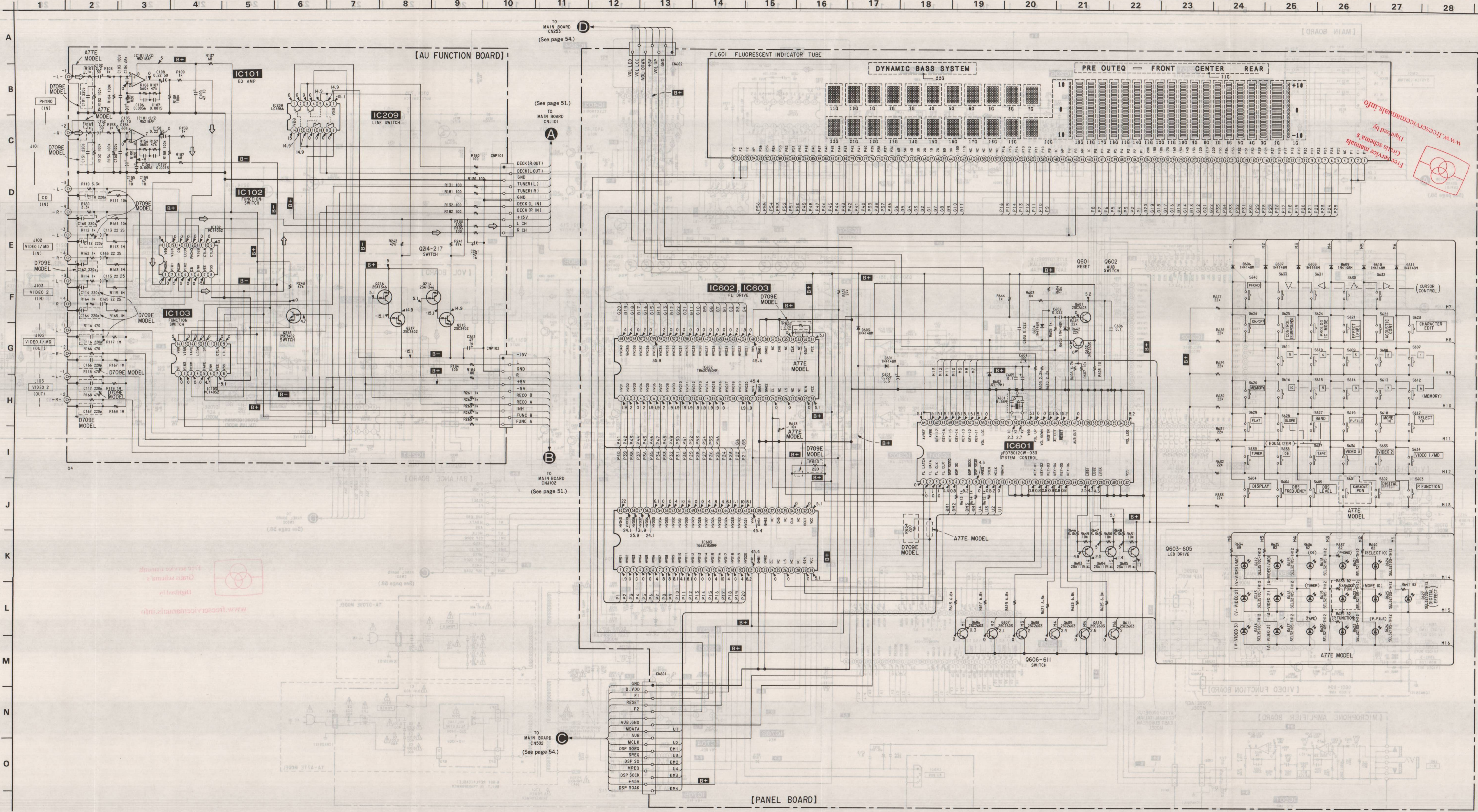
3-14. SCHEMATIC DIAGRAM—MAIN SECTION (TYPE III) — Refer to page 9 for IC Block Diagrams.



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- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
 - Δ : internal component.
- Note:** The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.
- Voltage is dc with respect to ground under no-signal conditions. no mark: PHONO
 - Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 - Δ : PHONO
 - Δ : SURROUND
 - Δ : CENTER

3-15. SCHEMATIC DIAGRAM—PANEL SECTION (TYPE III) — Refer to page 9 for IC Block Diagrams.

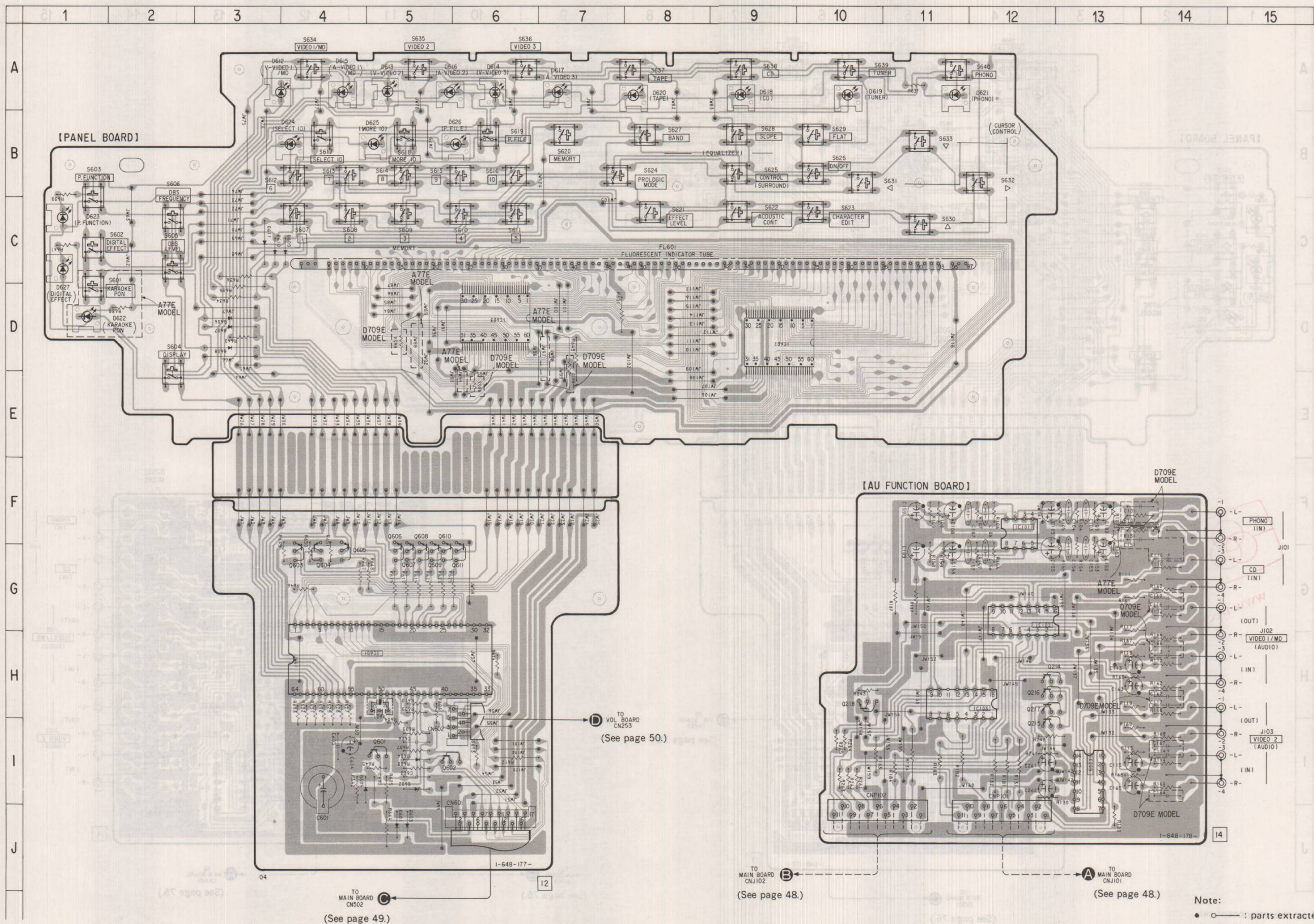


Note:

- All capacitors are in μF unless otherwise noted, pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- Voltage is dc with respect to ground under no-signal conditions, no mark: PHONO
- Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- \rightarrow : PHONO

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3-16. PRINTED WIRING BOARDS—PANEL SECTION (TYPE III)— Refer to page 8 for Semiconductor Lead Layouts.



● Semiconductor Location

Ref. No.	Location
D601	J-5
D602	I-5
D603	J-5
D604	I-5
D605	I-4
D606	D-3
D607	D-3
D608	D-3
D609	C-4
D610	C-3
D611	C-3
D612	A-3
D613	A-5
D614	A-6
D615	A-4
D616	A-5
D617	A-7
D618	A-9
D619	A-10
D620	A-8
D621	A-11
(D622)	D-1
D623	C-1
D624	B-4
D625	B-5
D626	B-6
D627	C-1
IC101	F-12
IC102	G-12
IC103	H-11
IC209	I-13
IC601	H-5
IC602	D-9
IC603	D-6
Q214	H-12
Q215	I-12
Q216	H-12
Q217	H-12
Q218	H-10
Q601	I-5
Q602	I-5
Q603	G-4
Q604	G-4
Q605	G-4
Q606	G-5
Q607	G-5
Q608	G-5
Q609	G-5
Q610	G-5
Q611	G-6

() : TA-A77E only

Note:

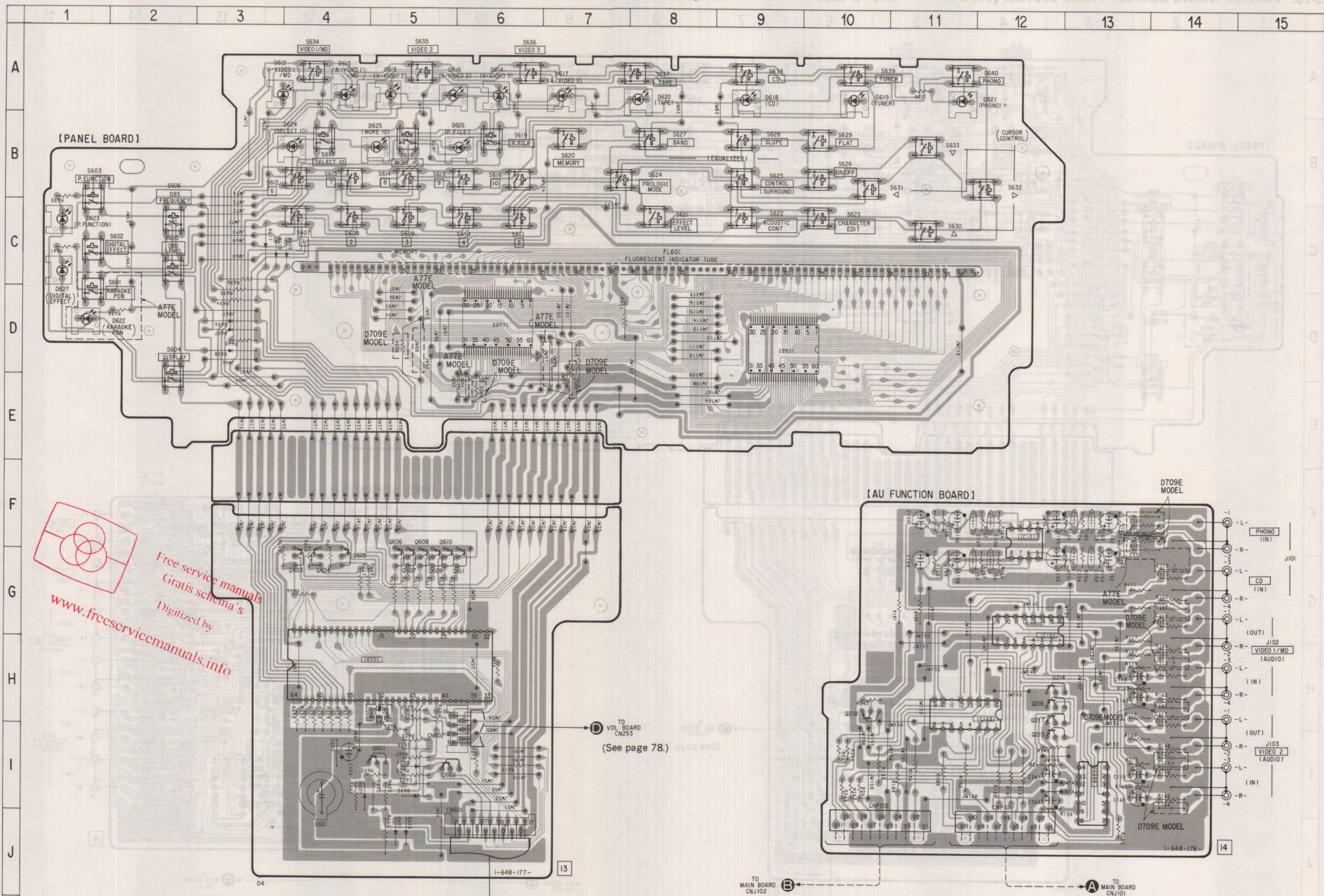
- : parts extracted from the component side.
- ◐ : Pattern on the side which is seen.

● Semiconductor Location

Ref. No.	Location
D601	J-5
D602	I-5
D603	J-5
D604	I-5
D605	I-4
D606	D-3
D607	D-3
D608	D-3
D609	C-4
D610	C-3
D611	C-3
D612	A-3
D613	A-5
D614	A-6
D615	A-4
D616	A-5
D617	A-7
D618	A-9
D619	A-10
D620	A-8
D621	A-11
(D622)	D-1
D623	C-1
D624	B-4
D625	B-5
D626	B-6
D627	C-1
IC101	F-12
IC102	G-12
IC103	H-11
IC209	I-13
IC601	H-5
IC602	D-9
IC603	D-6
Q214	H-12
Q215	I-12
Q216	H-12
Q217	H-12
Q218	H-10
Q601	I-5
Q602	I-5
Q603	G-4
Q604	G-4
Q605	G-4
Q606	G-5
Q607	G-5
Q608	G-5
Q609	G-5
Q610	G-5
Q611	G-6

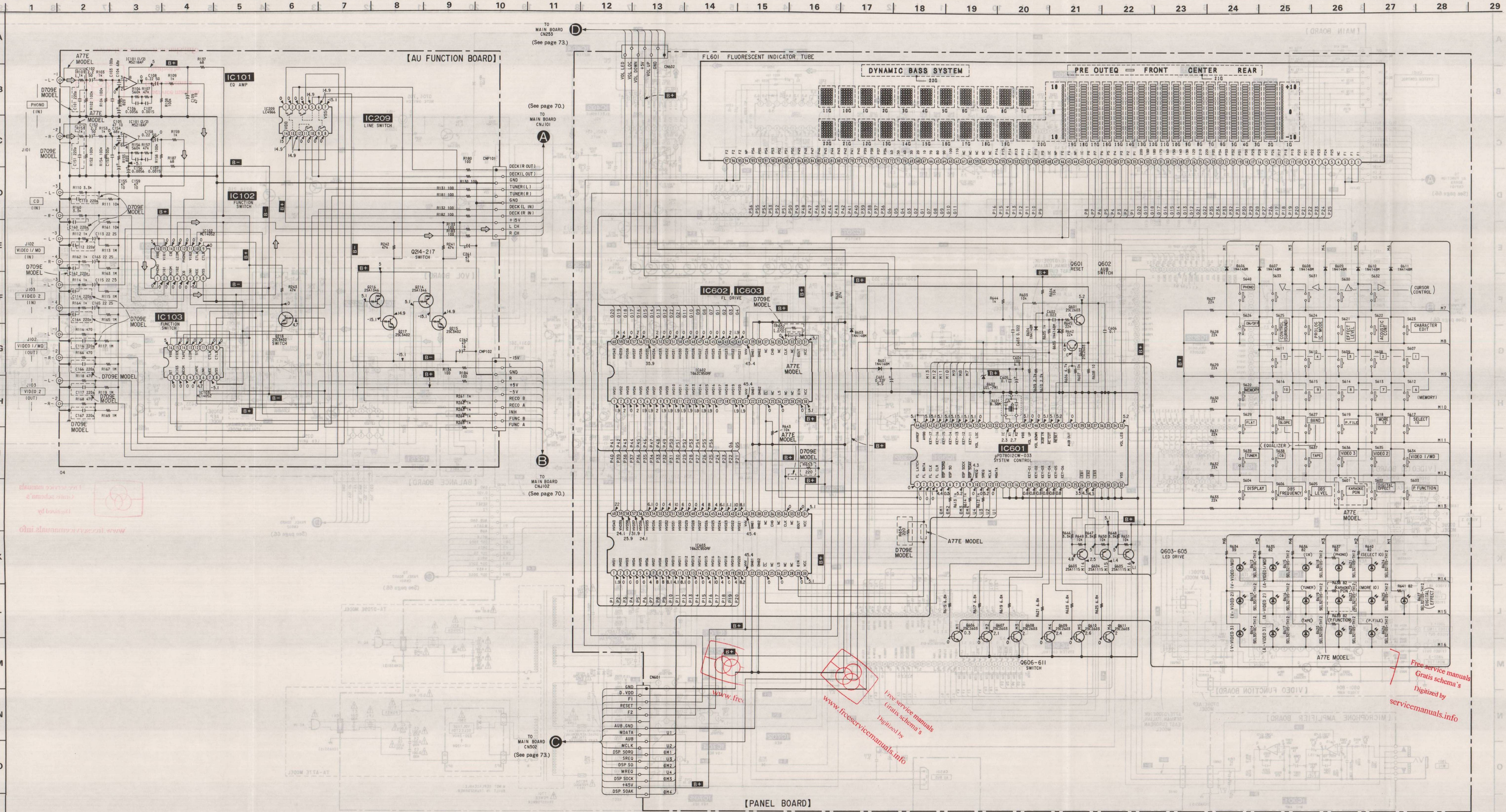
() : TA-A77E only

3-17. PRINTED WIRING BOARDS—PANEL SECTION (TYPE IV)— Refer to page 8 for Semiconductor Lead Layouts.



Note:

- : parts extracted from the component side.
- : Pattern on the side which is seen.



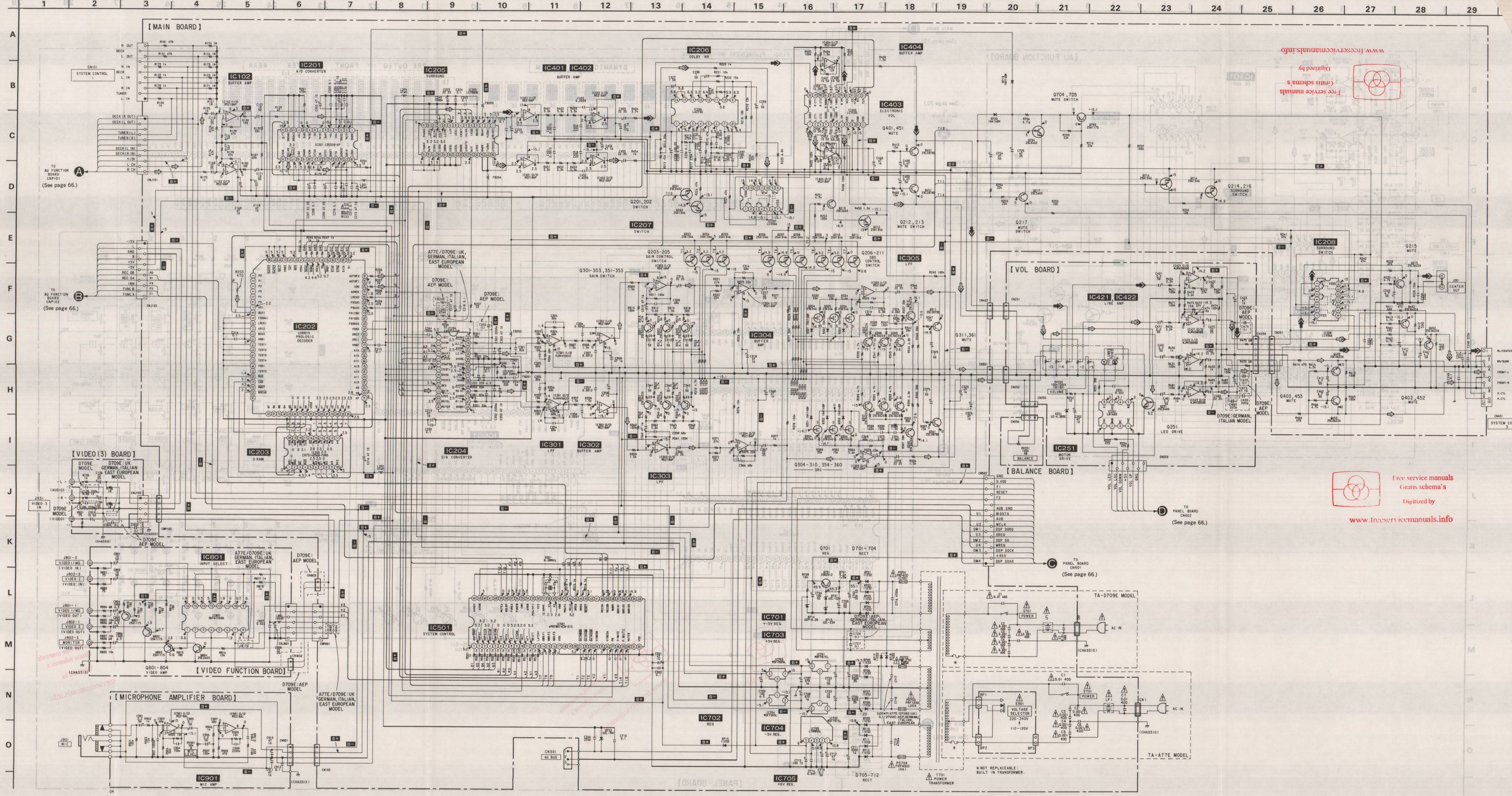
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Note:
• All capacitors are in μF unless otherwise noted. pF : μF
50WV or less are not indicated except for electrolytic and tantalum.
• All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
• Δ : internal component.
• Voltage is dc with respect to ground under no-signal conditions, no mark: PHONO
• Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
• Signal path.
• \rightarrow : PHONO

3-19. SCHEMATIC DIAGRAM—MAIN SECTION (TYPE IV)— Refer to page 9 for IC Block Diagrams.



Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.

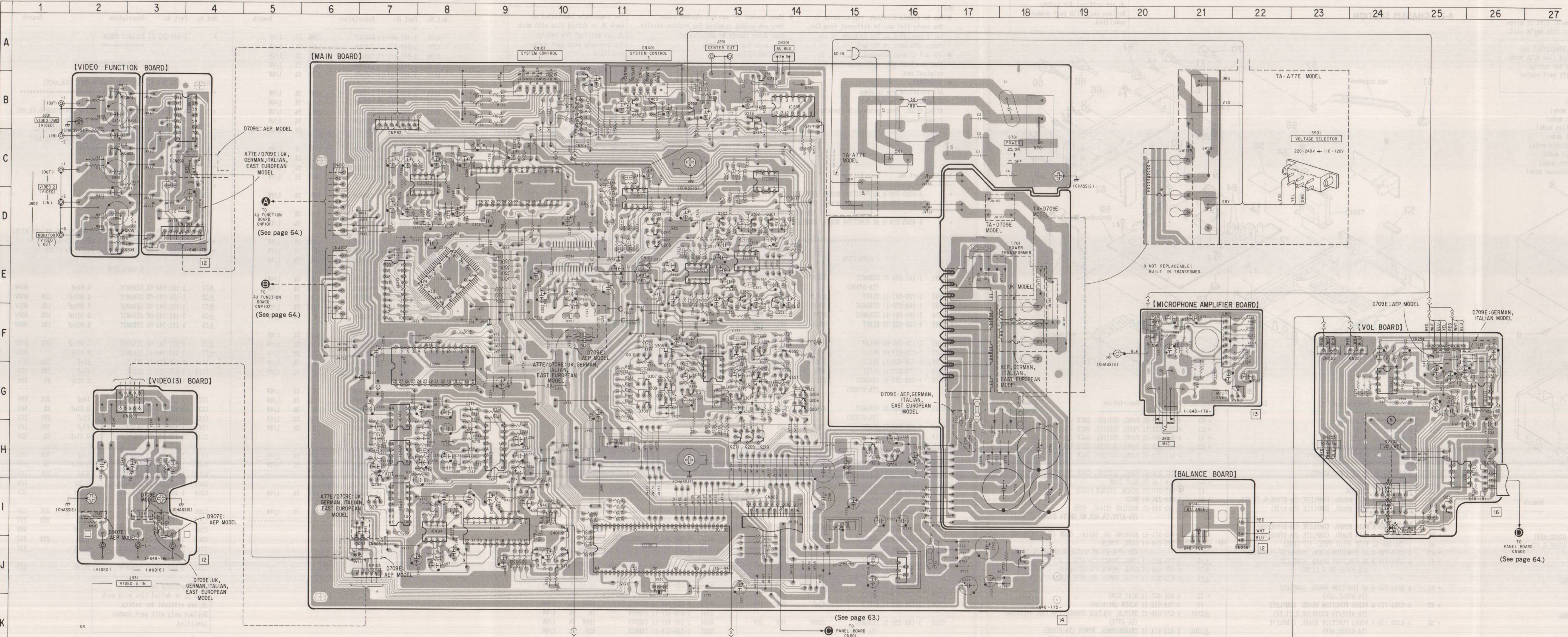
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- Voltage is dc with respect to ground under no-signal conditions. no mark: PHONO
- Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path:
 - \rightarrow : PHONO
 - \rightarrow : SURROUND
 - \rightarrow : CENTER

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3-20. PRINTED WIRING BOARDS—MAIN SECTION (TYPE IV)— Refer to page 8 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D251	I-25	IC801	B-3
D301	G-12	IC901	F-21
D302	F-12		
D303	G-12	Q201	I-7
D351	G-13	Q202	H-7
D352	F-13	Q203	D-12
D353	G-13	Q204	D-12
D701	J-17	Q205	D-12
D702	J-17	Q206	G-14
D703	J-17	Q207	G-14
D704	J-17	Q208	G-14
D705	H-17	Q209	H-13
D706	H-18	Q210	H-13
D707	G-17	Q211	H-13
D708	G-18	Q212	J-10
D709	E-17	Q213	J-10
D710	E-17	Q214	B-13
D711	E-17	Q215	B-13
D712	E-18	Q216	B-13
D713	J-18	Q217	B-14
D714	J-18	Q251	I-25
D715	J-14	Q301	D-14
D717	H-17	Q302	D-13
D718	H-17	Q303	D-13
D719	H-15	Q304	G-12
D720	H-16	Q305	F-12
D721	J-18	Q306	G-12
D722	B-14	Q307	G-11
		Q308	G-11
		Q309	G-11
		Q310	F-11
		Q311	G-12
		Q351	E-14
		Q352	E-13
		Q353	E-13
		Q354	G-13
		Q355	F-13
		Q356	G-13
		Q357	G-14
		Q358	F-14
		Q359	G-14
		Q360	F-13
		Q361	G-13
		Q401	I-10
		Q402	B-10
		Q403	B-12
		Q451	I-9
		Q452	B-11
		Q453	B-12
		Q701	J-18
		Q704	H-16
		Q705	H-15
		Q801	B-2
		Q802	C-2
		Q803	D-2
		Q804	E-2

- Note:
- : parts extracted from the component side.
 - ▨ : Pattern on the side which is seen.
 - ⊕ : Jumper wire connected to the ground pattern on the component side.

SECTION 4 EXPLODED VIEWS

- NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.
Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

4-1. FRONT PANEL SECTION

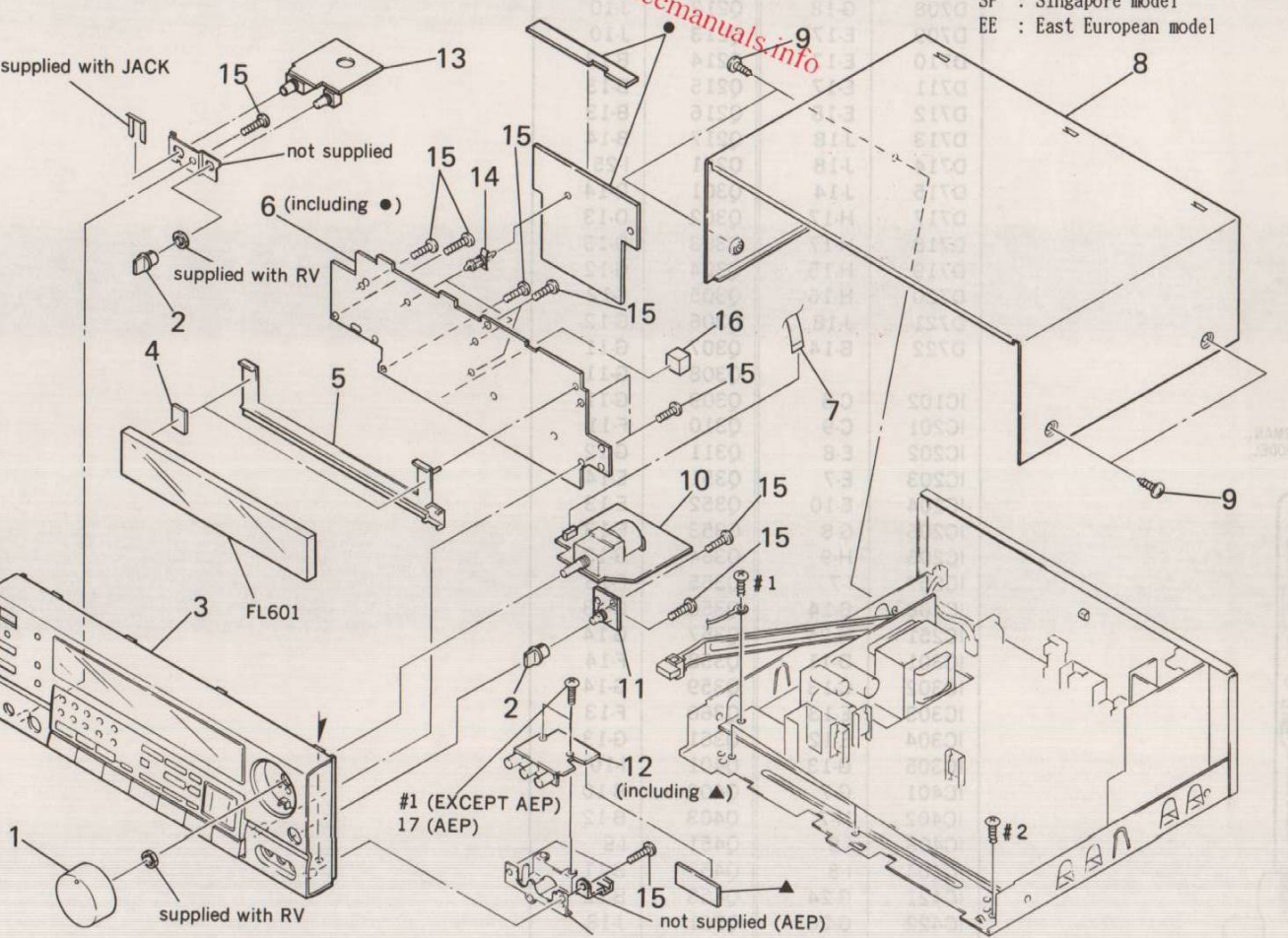


Table with 4 columns: Ref. No., Part No., Description, Remark. Lists parts for the front panel section.

4-2. CHASSIS SECTION

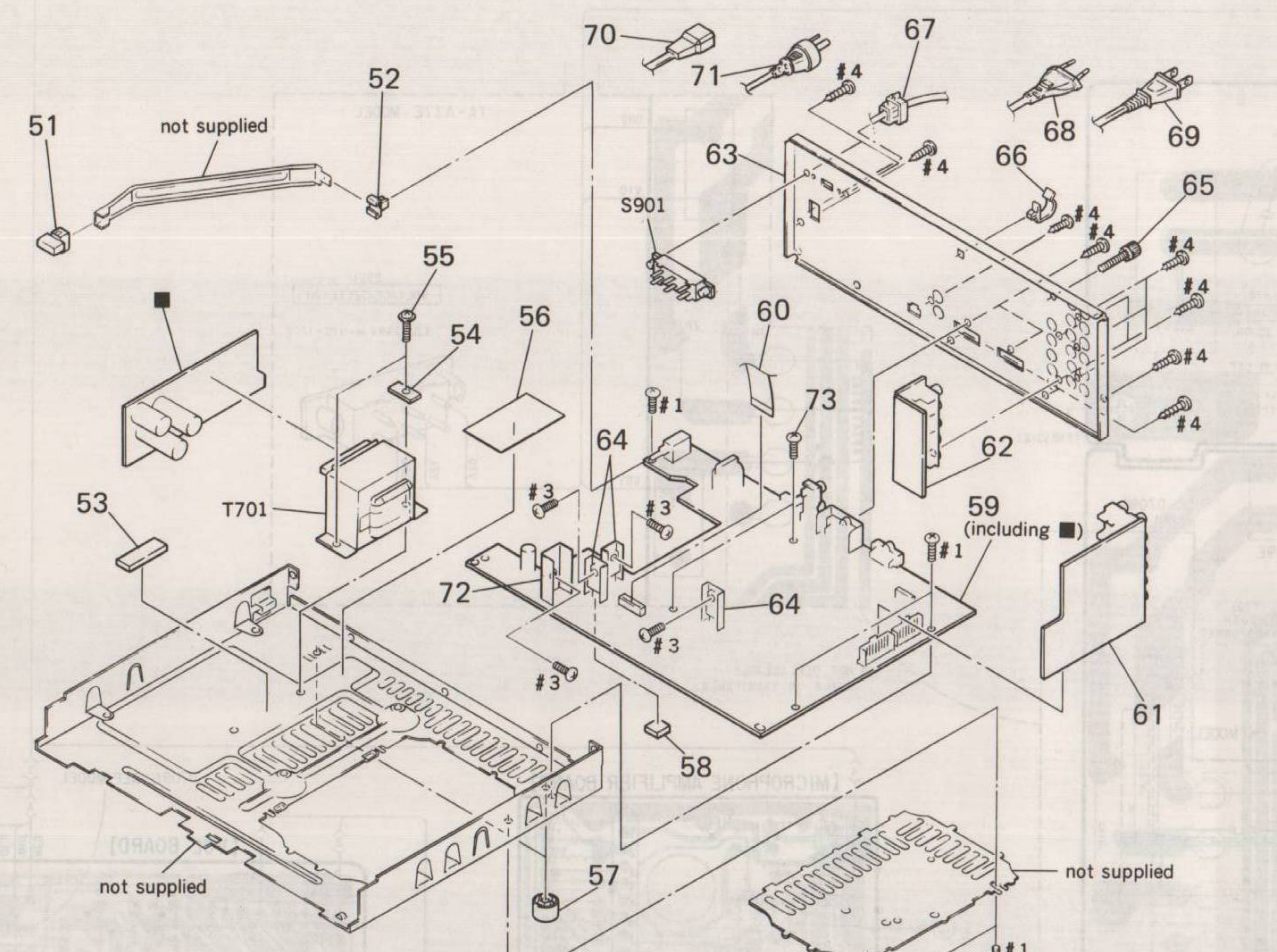


Table with 4 columns: Ref. No., Part No., Description, Remark. Lists parts for the chassis section.

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

SECTION 5 ELECTRICAL PARTS LIST

- NOTE:
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.
-XX and -X mean standardized parts, so they may have some difference from the original one.
RESISTORS: All resistors are in ohms. METAL: Metal-film resistor. METAL OXIDE: Metal oxide-film resistor. F: nonflammable

Table with 4 columns: Ref. No., Part No., Description, Remark. Lists electrical parts for the chassis section.

AU FUNCTION

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

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

Table with 4 columns: Ref. No., Part No., Description, Remark. Lists electrical parts for the AU function section.

AU FUNCTION

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

Table with 4 columns: Ref. No., Part No., Description, Remark. Lists electrical parts for the AU function section.

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