

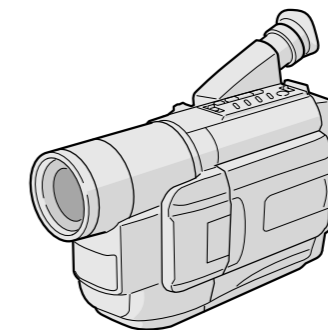
JVC

SCHEMATIC DIAGRAMS

COMPACT VHS CAMCORDER

GR-FXM37EK

CD-ROM No. SML200105



Compact VHS



Regarding service information other than these sections, refer to the GR-FXM37EG service manual (No. 86589). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

Camcorder		AC Adapter AP-V10EG	
General		Weight	: Approx. 900 g
Format	: VHS PAL standard	Dimensions (W x H x D)	: 200 mm x 112 mm x 118 mm (with the LCD monitor closed and with the viewfinder full tilted downward)
Power source	: DC 11 V --- (Using AC Adapter) DC 6 V --- (Using battery pack)	Pickup	: 1/4" format CCD
Power consumption		Lens	: F1.6, f = 3.9 mm to 62.4 mm, 16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
Viewfinder on	: 4.0 W	Viewfinder	: Electronic viewfinder with 0.5" black/white CRT
LCD monitor on	: 4.5 W	White balance adjustment	: Auto/Manual adjustment
Signal system	: PAL-type	LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
Video recording system		Speaker	: Monaural
Luminance	: FM recording	Connectors	
Colour	: Converted sub-carrier direct recording Conforms to VHS standard	JLIP/EDIT	: ϕ 3.5 mm, 4-pole, mini-head jack (compatible with RC-5325 plug)
Cassette	: VHS / VHS-C cassette	Video	: 1 V (p-p), 75 Ω unbalanced, analogue output (via Video output connector)
Tape speed		Audio	: 300 mV (rms), 1 k Ω analogue output (via Audio output connector)
SP	: 23.39 mm/sec.		
LP	: 11.70 mm/sec.		
Recording time (max.)			
SP	: 60 minutes		
LP	: 120 minutes (with EC-60 cassette)		
Operating temperature	: 0°C to 40°C		
Operating humidity	: 35% to 80%		
Storage temperature	: -20°C to 50°C		
		Power requirement	: AC 110 V to 240 V \sim , 50 Hz/60 Hz
		Output	: DC 11 V --- , 1 A
		Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm
		Weight	: Approx. 140 g (not including Power Cord)
		Optional Accessories	<ul style="list-style-type: none"> • Battery Packs BN-V11U, BN-V12U, BN-V400U • Compact VHS (VHS-C) Cassettes EC-60/45/30 • Active Carrying Bag CB-V7U • Cassette Adapter C-P7U
			Some accessories are not available in some areas. Please consult your nearest JVC dealer for details on accessories and their availability.
			<i>Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.</i>

JVC

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

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No. 86632SCH
May 2001

SECTION 4 CHARTS AND DIAGRAMS

4.1 BOARD INTERCONNECTIONS

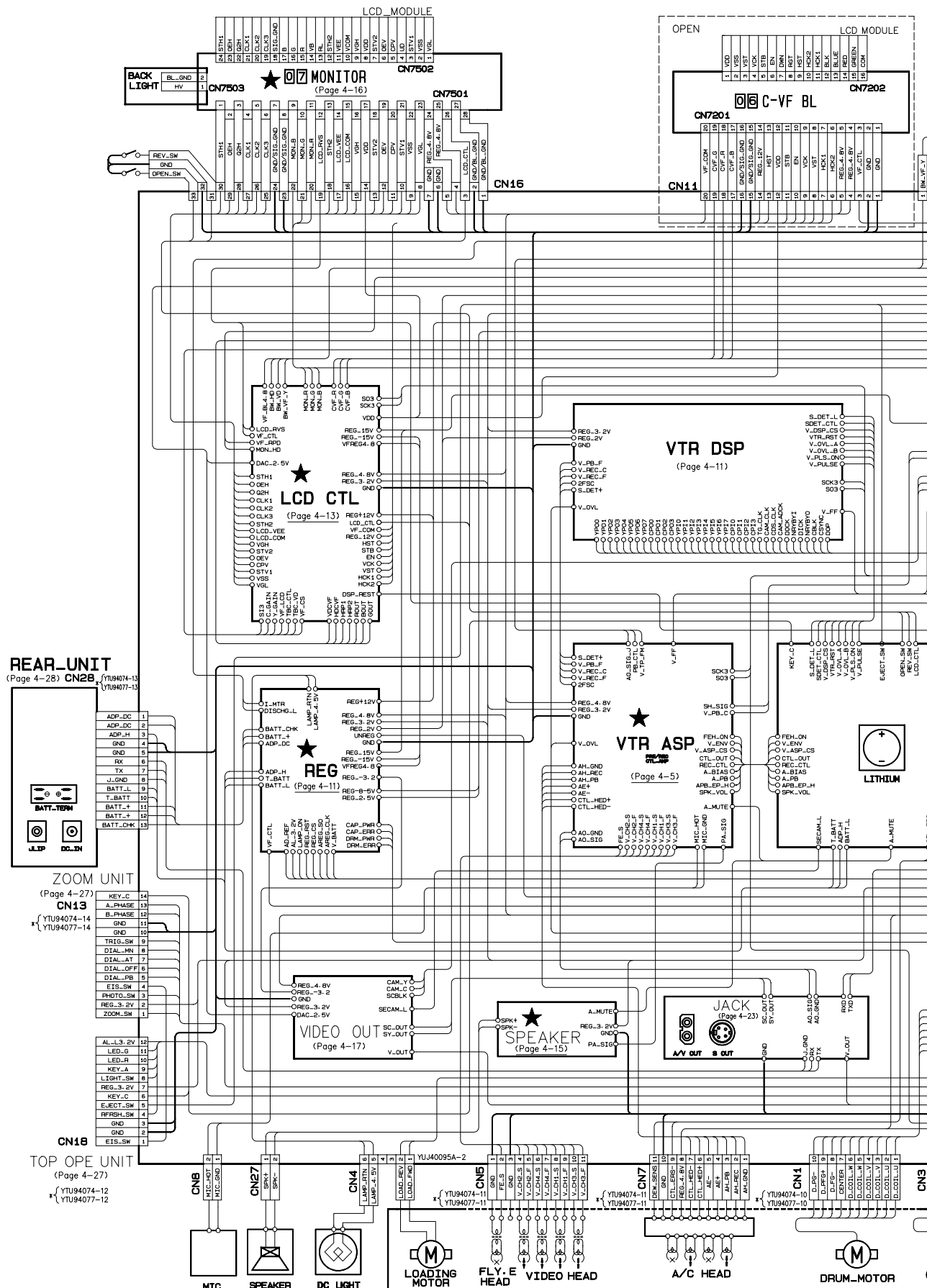
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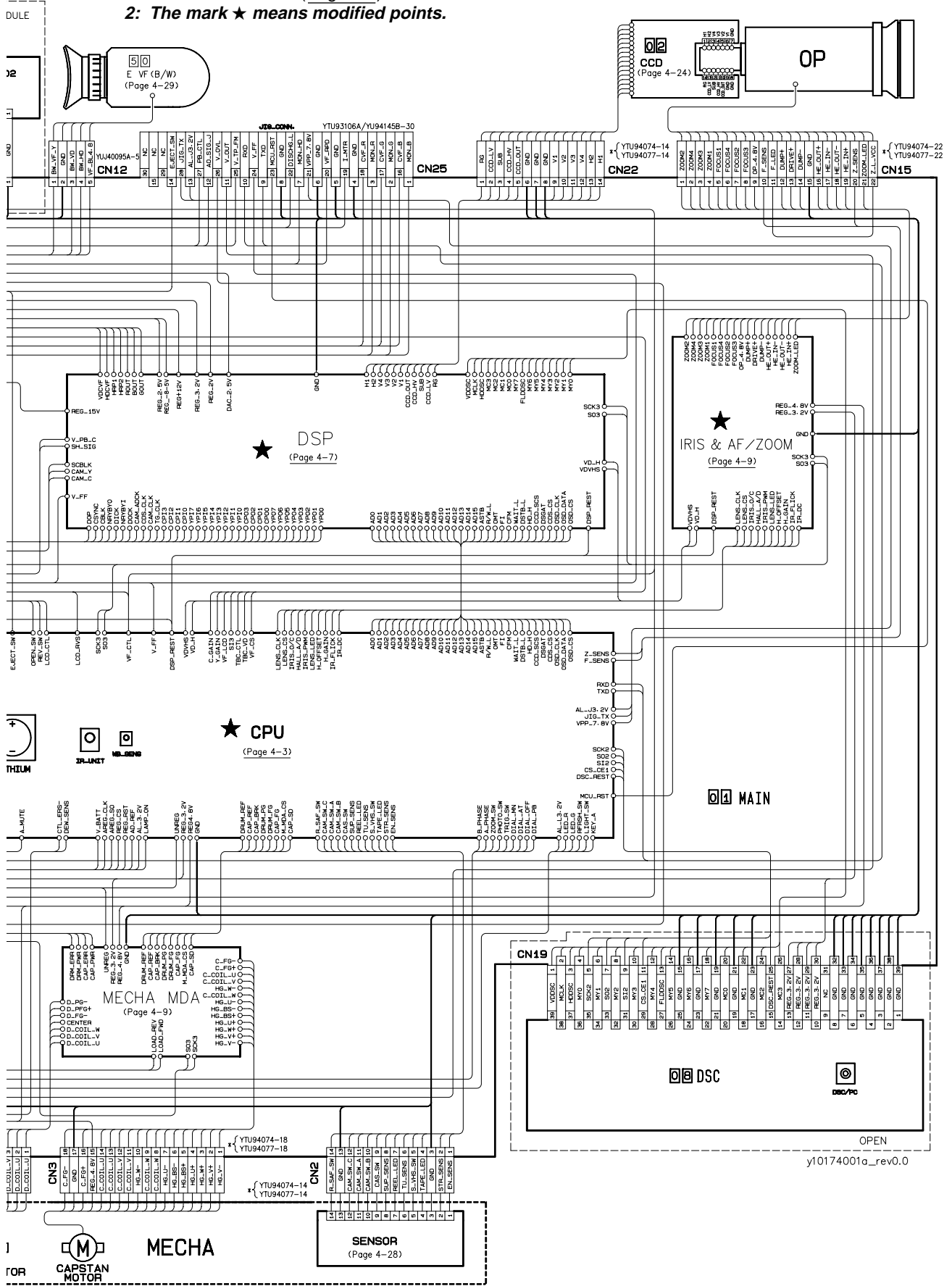
B

C

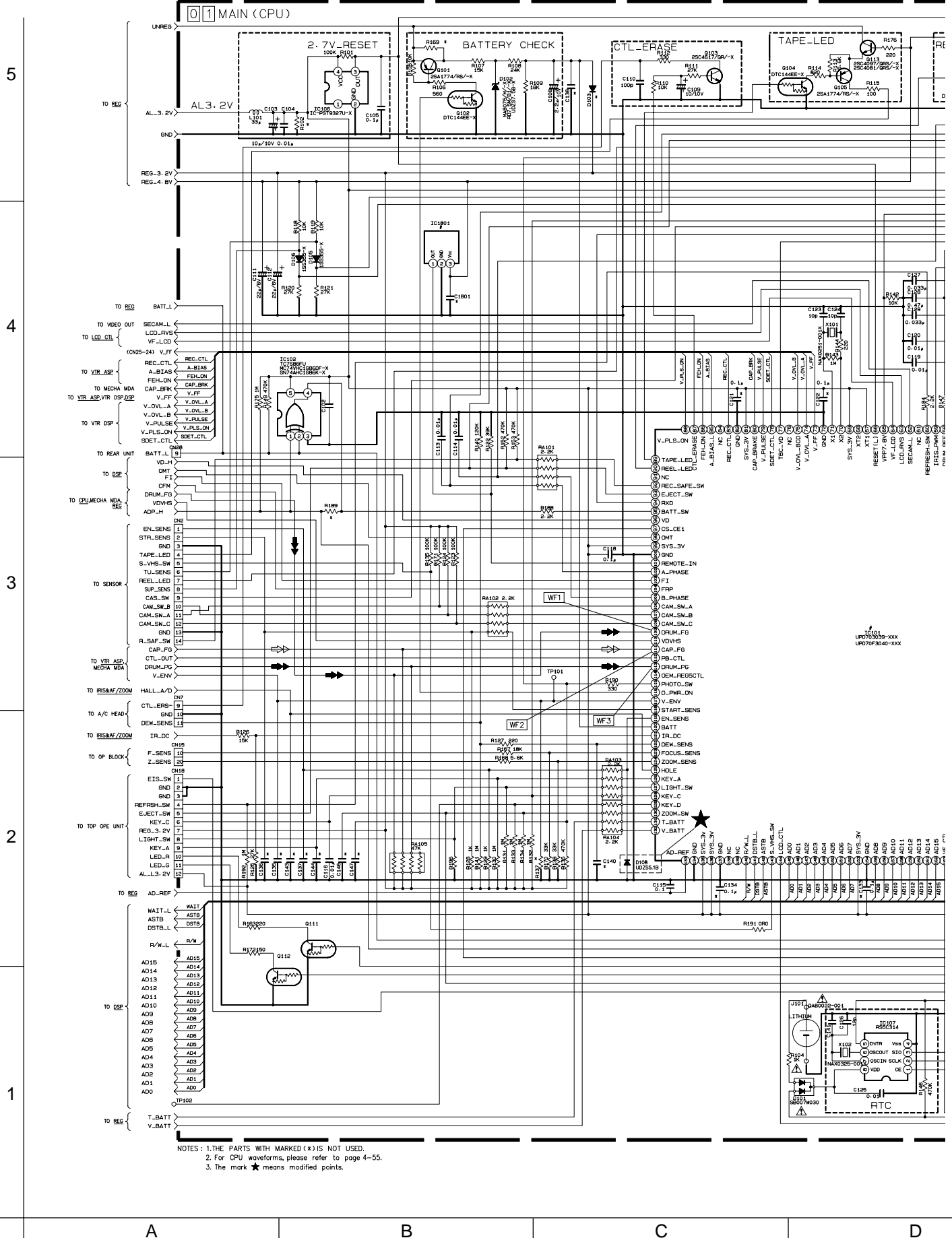
D

Note 1: How to find the page showing the continuative schematic diagram
Example) TO DSP (Page 4-7): Refer to the GR-FXM37EG, SXM607EG/EK service manual (No. 86589).
TO DSP (Page 4-7): Refer to this service manual.

2: The mark ★ means modified points.

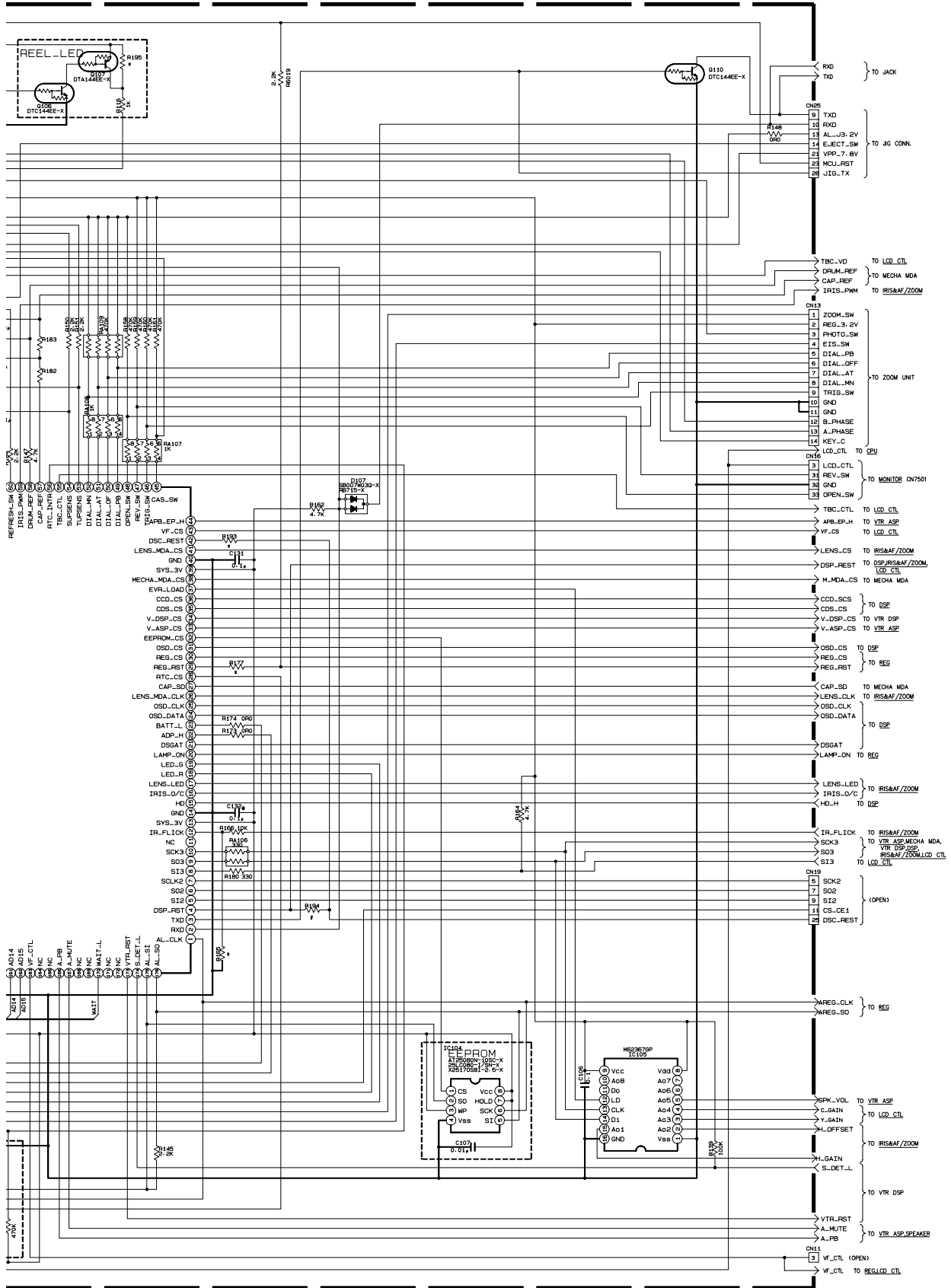


4.2 CPU SCHEMATIC DIAGRAM



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For CPU waveforms, please refer to page 4-55.
 3. The mark * means modified points.

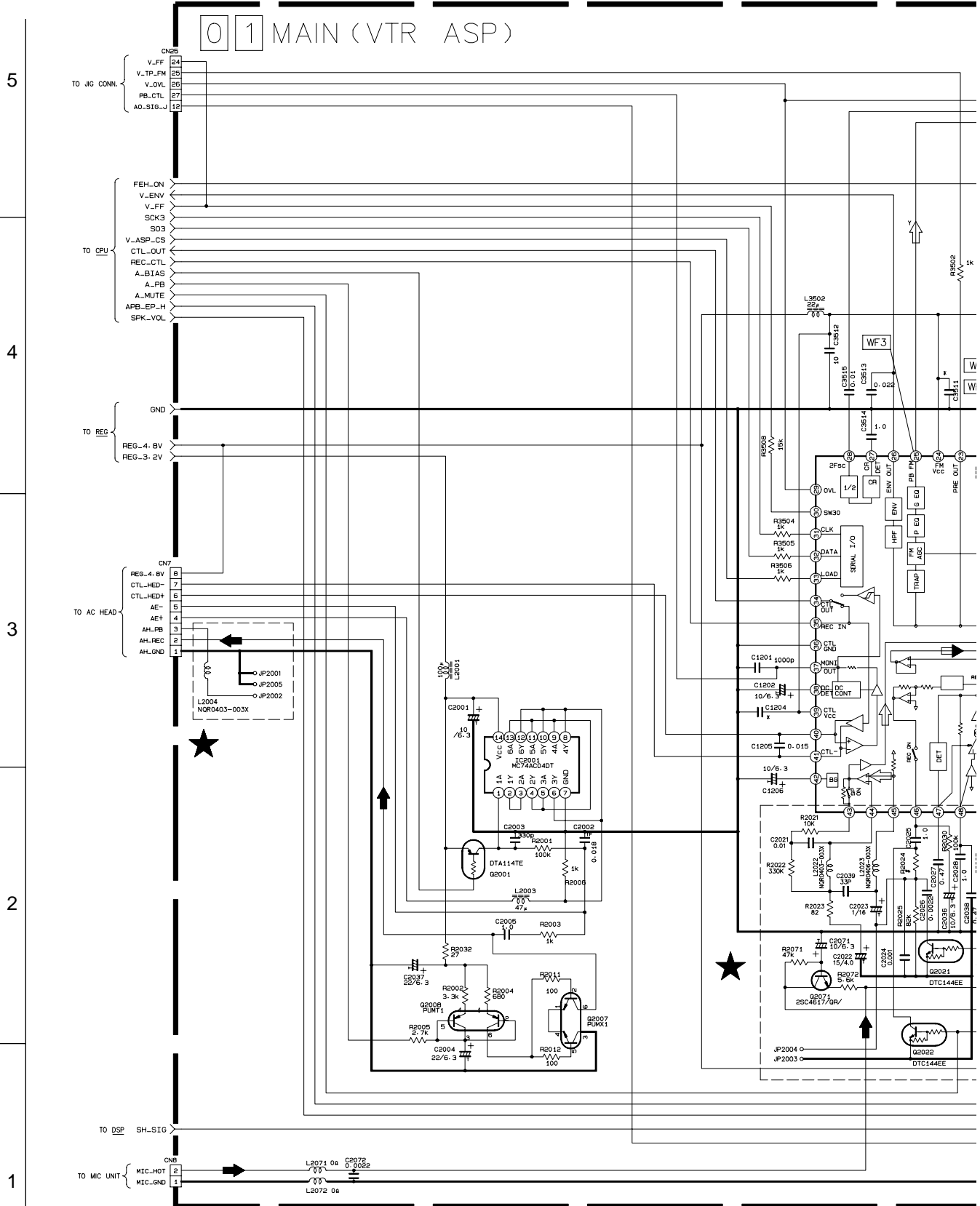
- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



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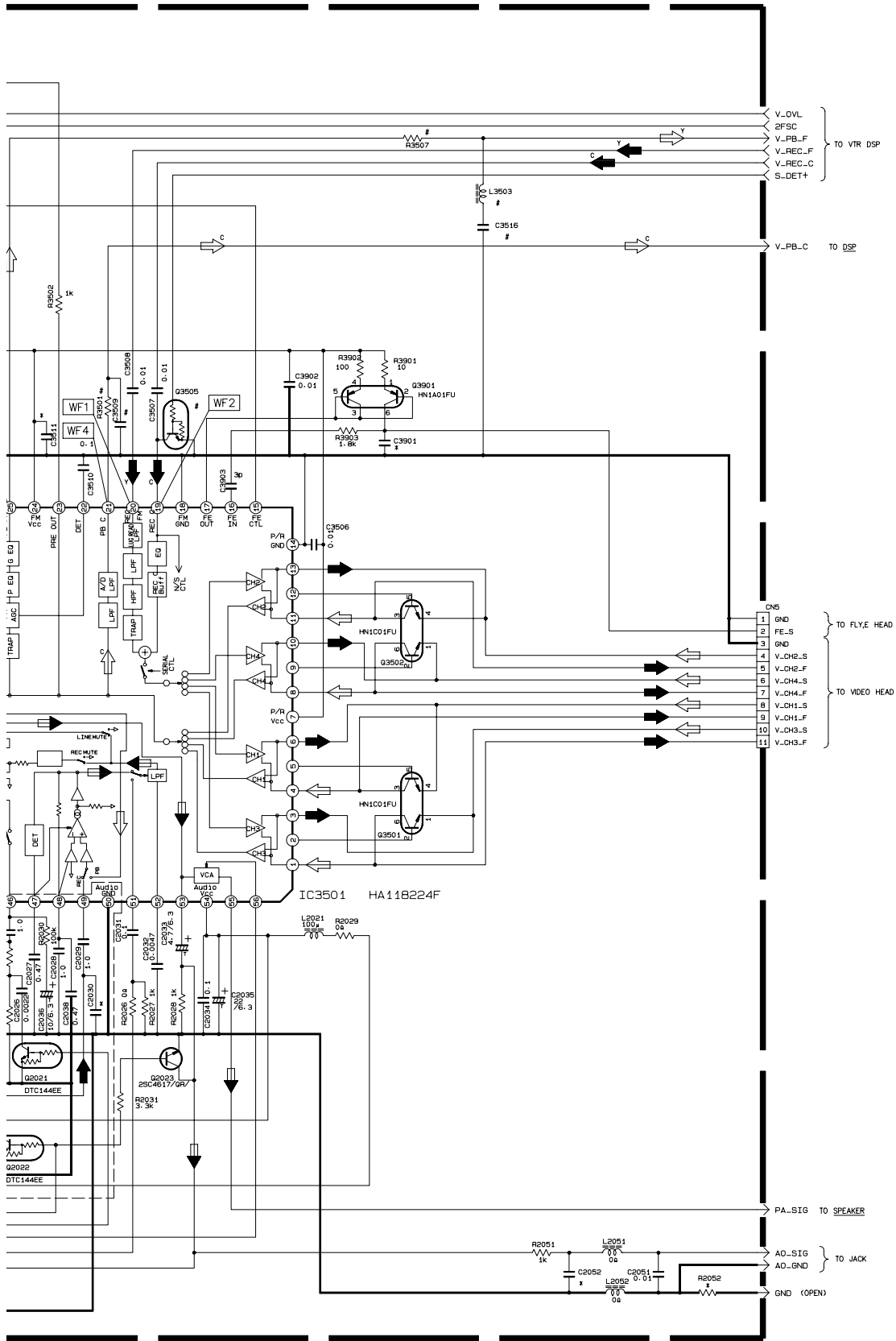
Note : How to fins the page showing the continuative schematic diagram.
Example) TO_DSP : Refer to the reference model's service manual.
 TO_DSP : Refer to this service manual.

4.3 VTR ASP SCHEMATIC DIAGRAM



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For VTR ASP waveforms, please refer to page 4-55.
 3. The mark ★ means modified points.

- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



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Note : How to fins the page showing the continuative schematic diagram.
 Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

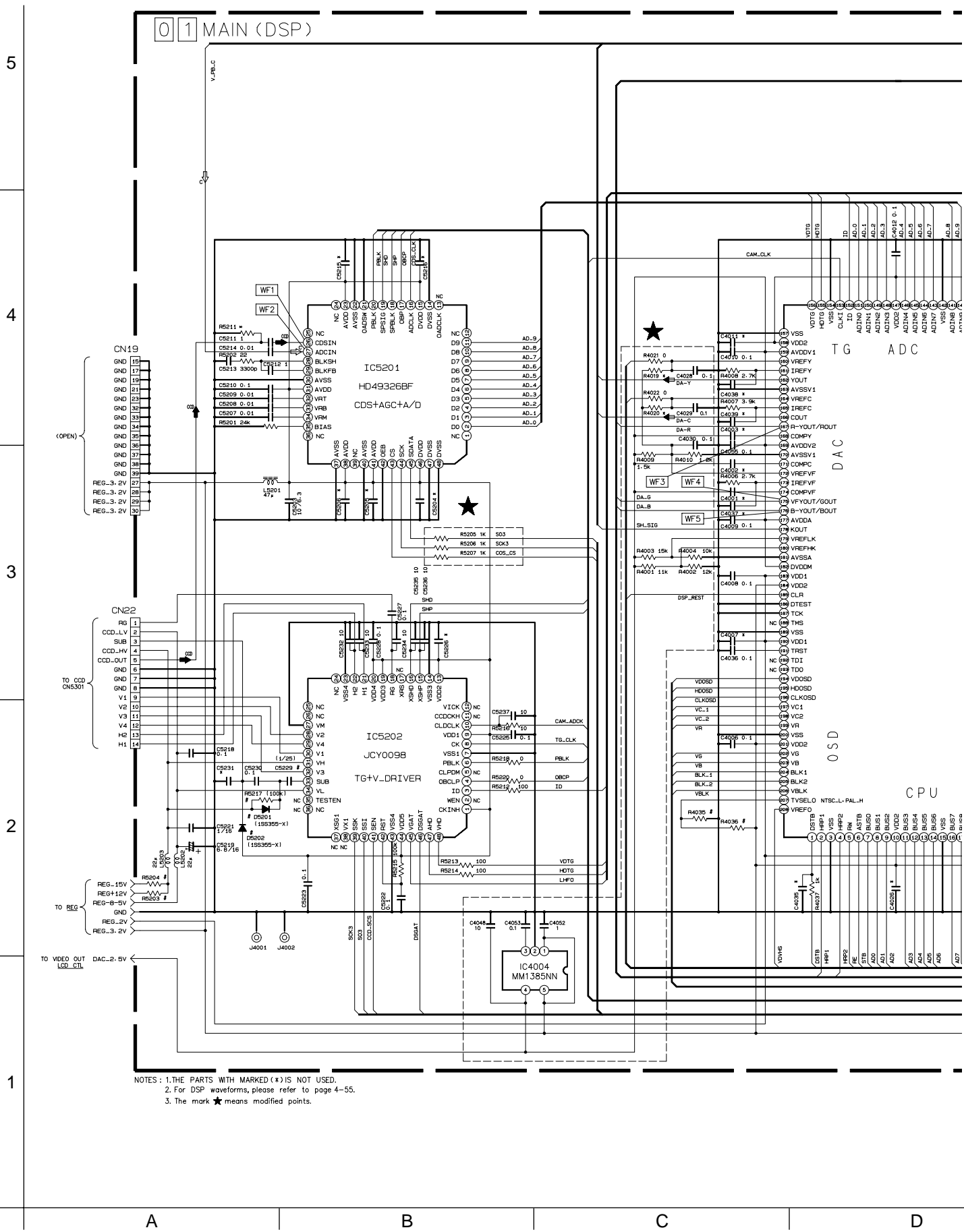
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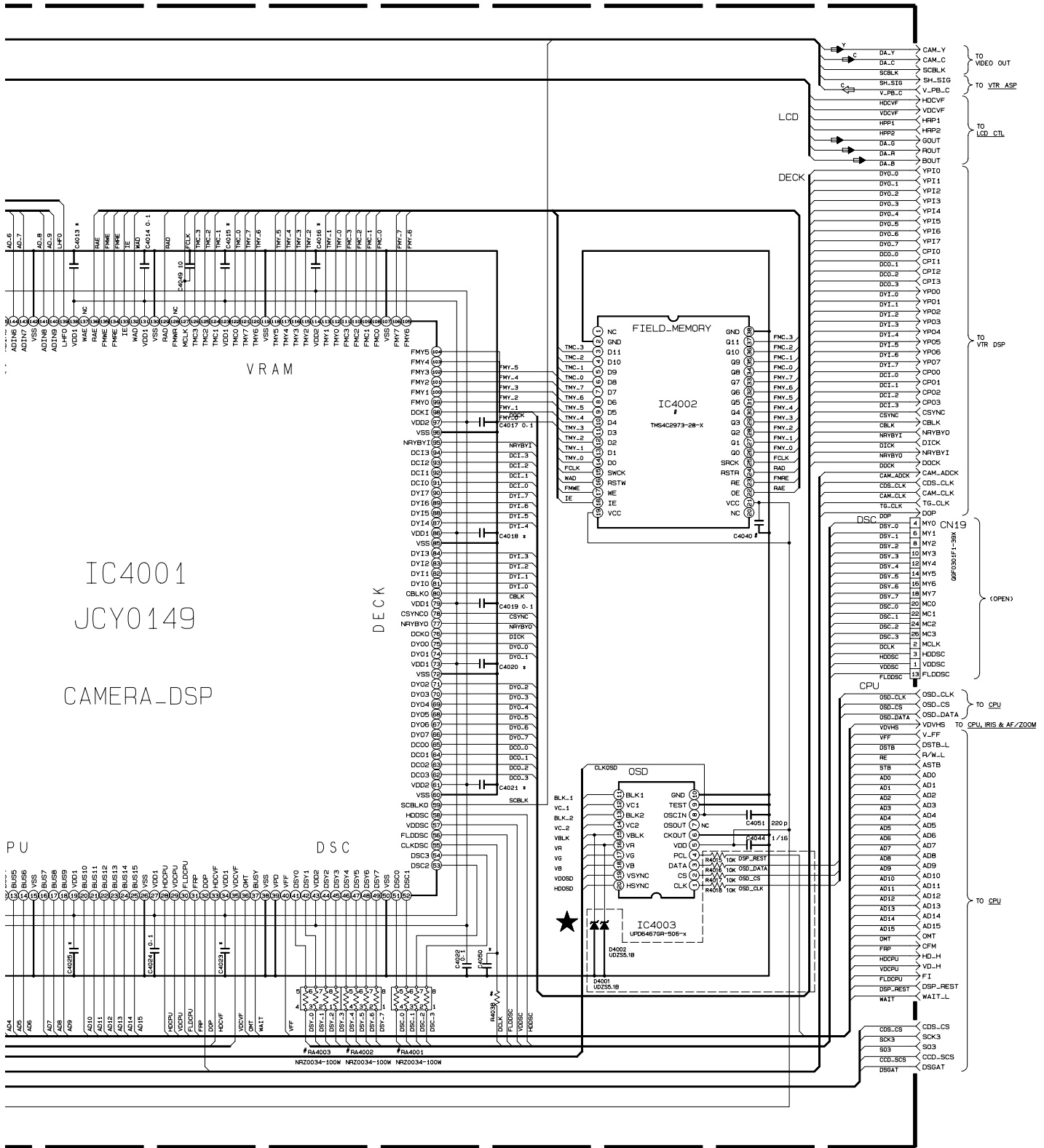
H

4.4 DSP SCHEMATIC DIAGRAM



NOTES : 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For DSP waveforms, please refer to page 4-55.
 3. The mark ★ means modified points.

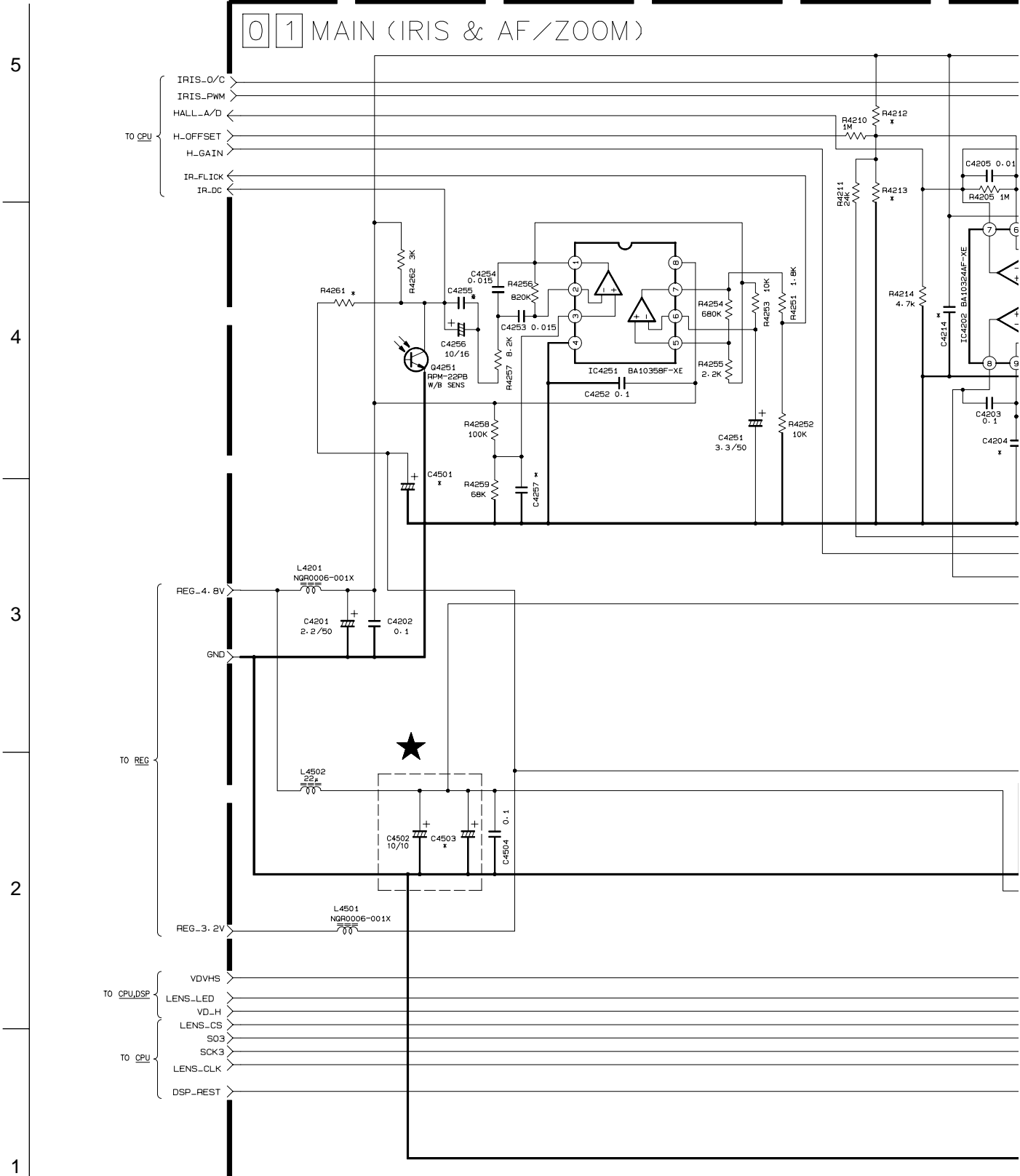
- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



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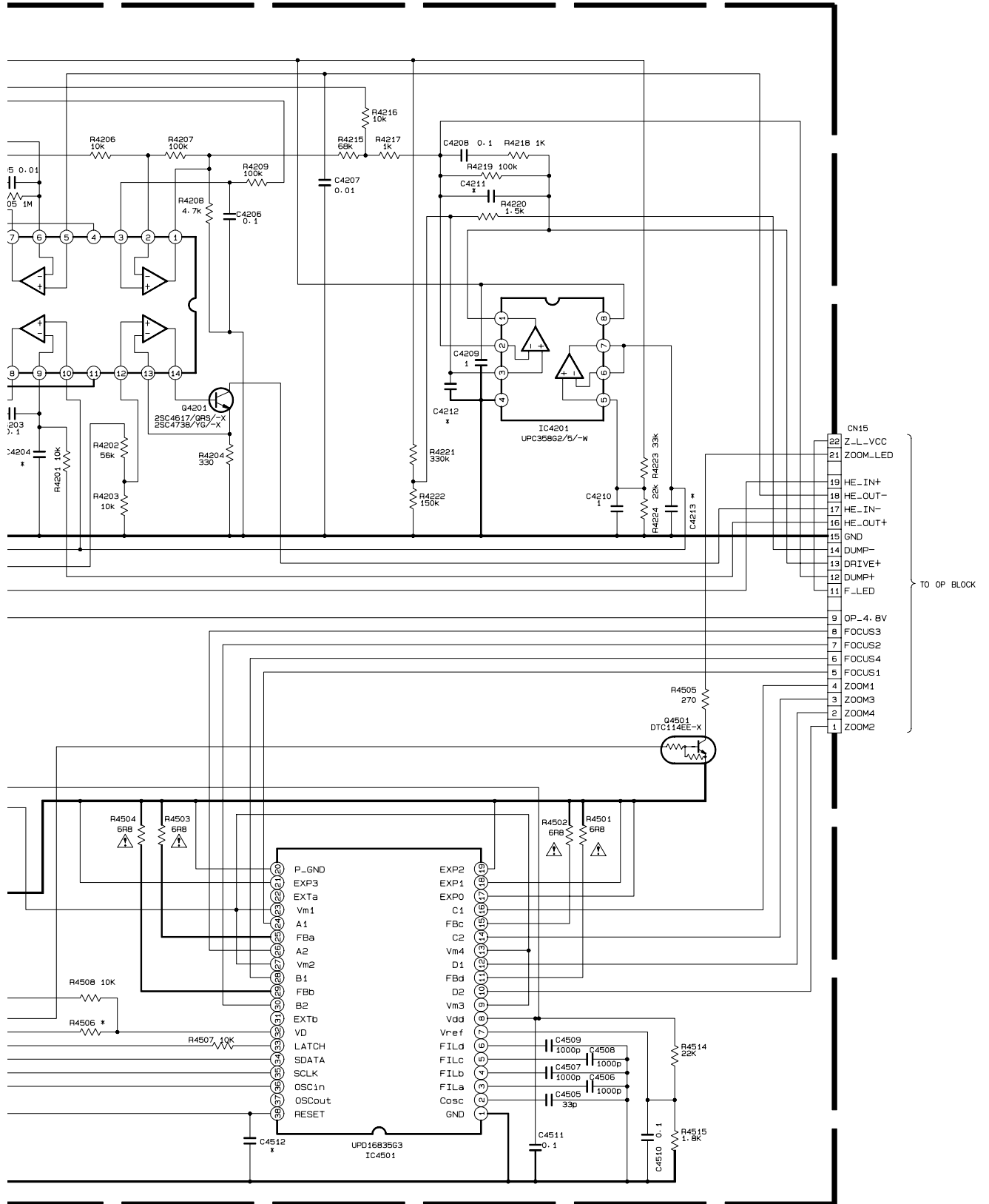
Note: How to find the page showing the continuative schematic diagram.
 Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

4.5 IRIS & AF/ZOOM SCHEMATIC DIAGRAM



NOTES : 1. THE PARTS WITH MARKED (*) IS NOT USED. 2. The mark ★ means modified points.

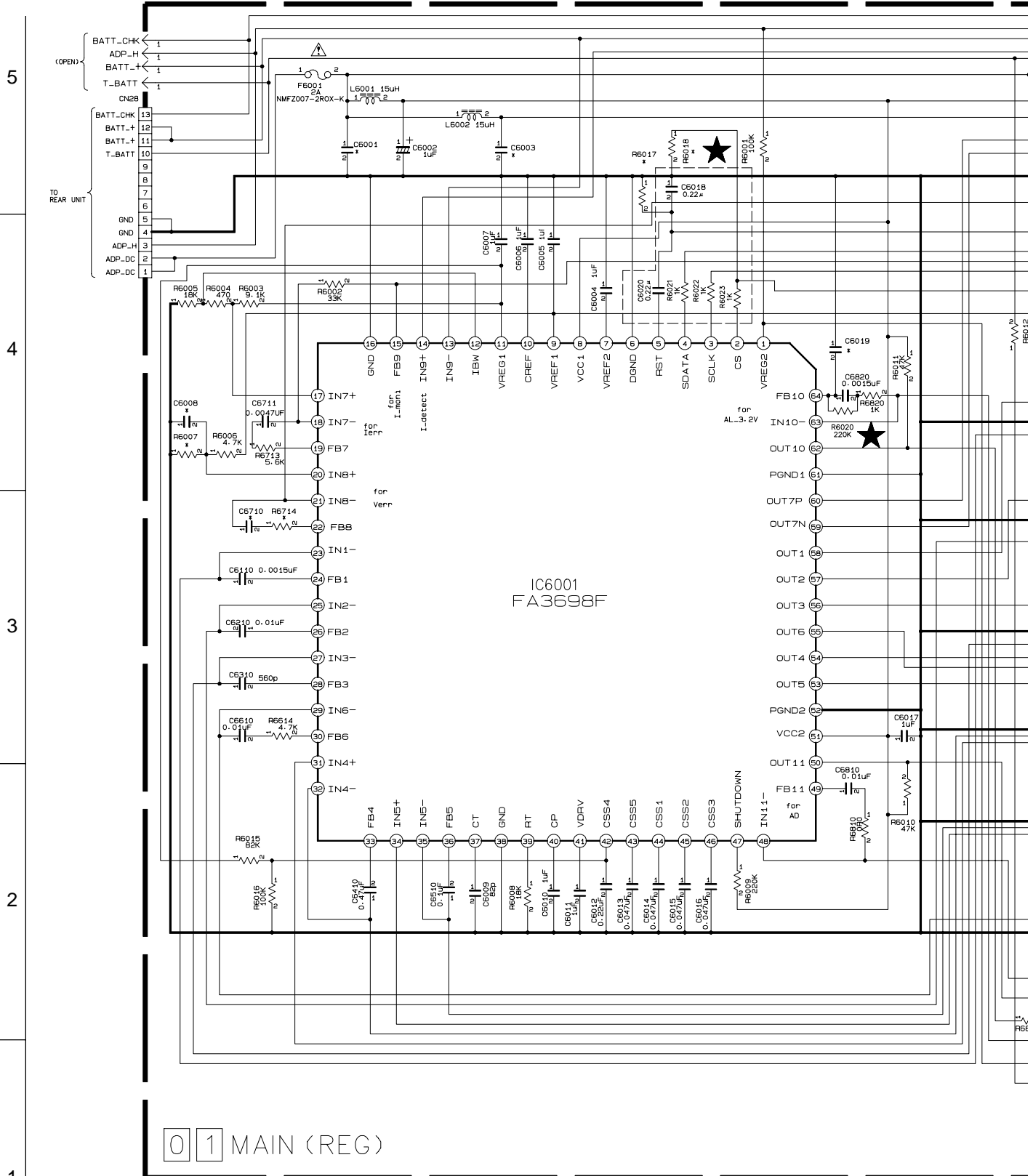
- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



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Note: How to find the page showing the continuative schematic diagram.
Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

4.6 REGULATOR SCHEMATIC DIAGRAM



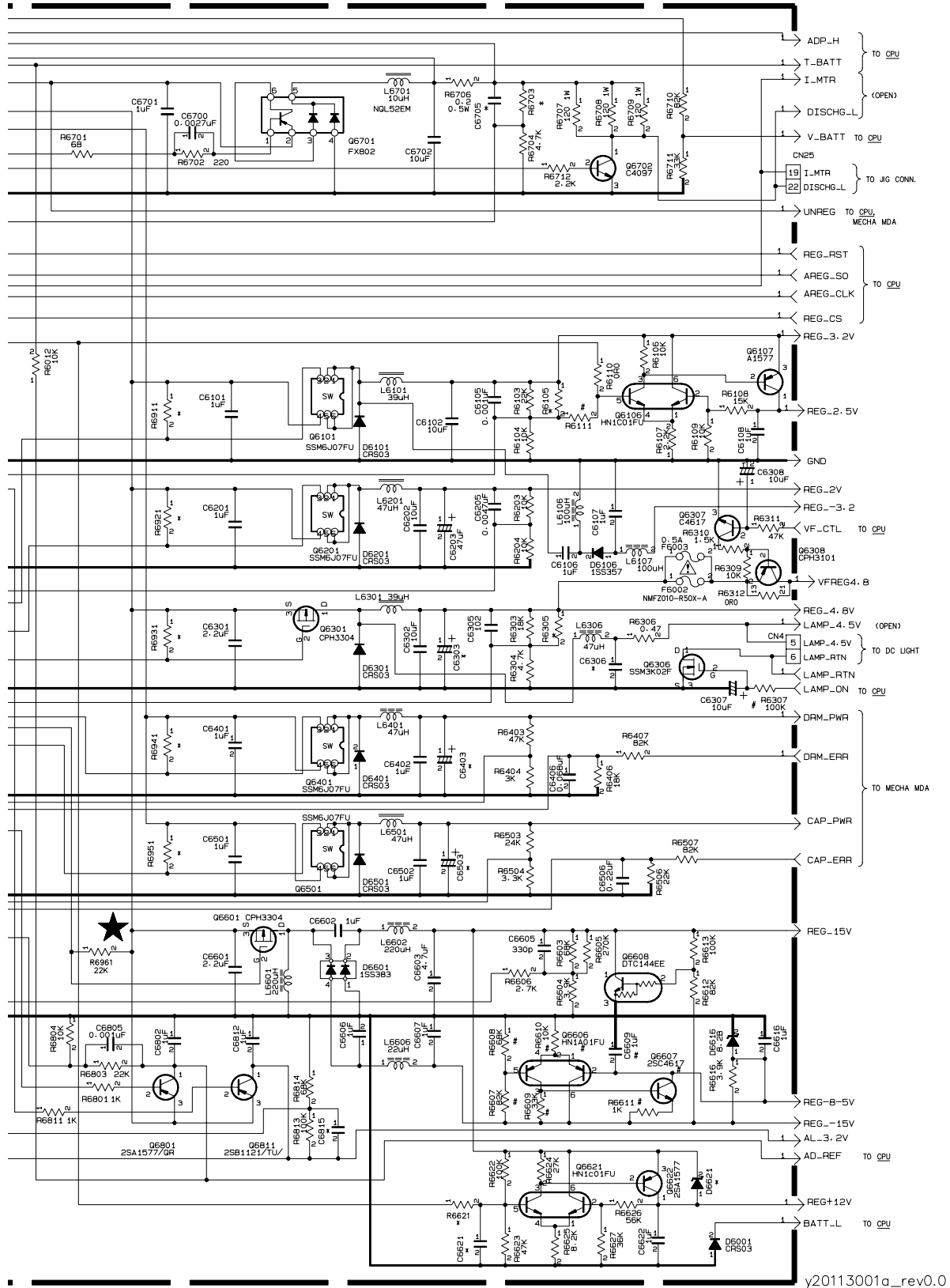
NOTES : 1. THE PARTS WITH MARKED (*) IS NOT USED.
EXCHANGE LIST

2. The mark ★ means modified points.

CCD VOLTAGE

CCD VOLTAGE	PAL	
picture elements	LOW	others
memory	NO	
D6616	8.2V	5.1V

- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



Note: How to fins the page showing the continuative schematic diagram.
 Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

4.7 LCD CTL SCHEMATIC DIAGRAM

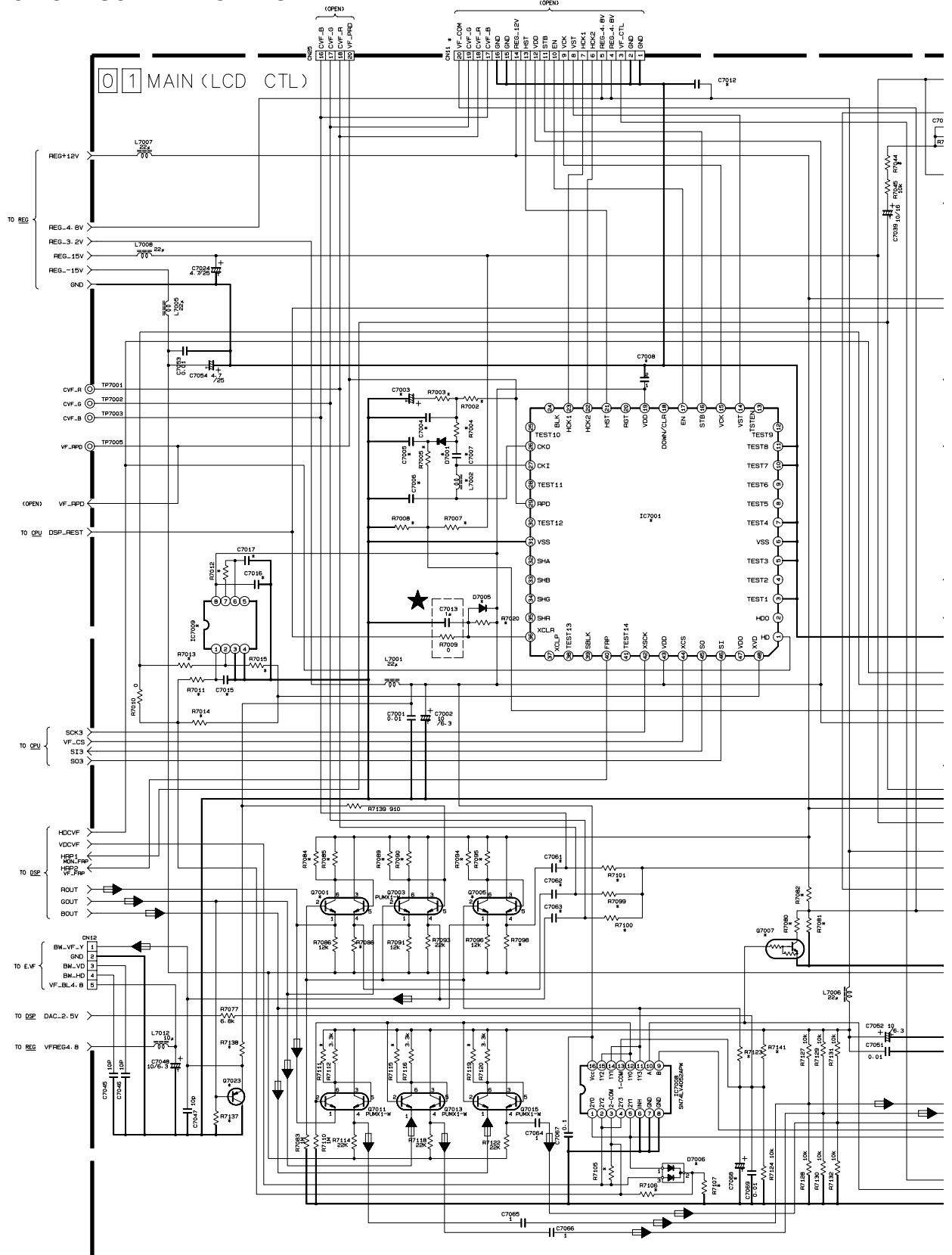
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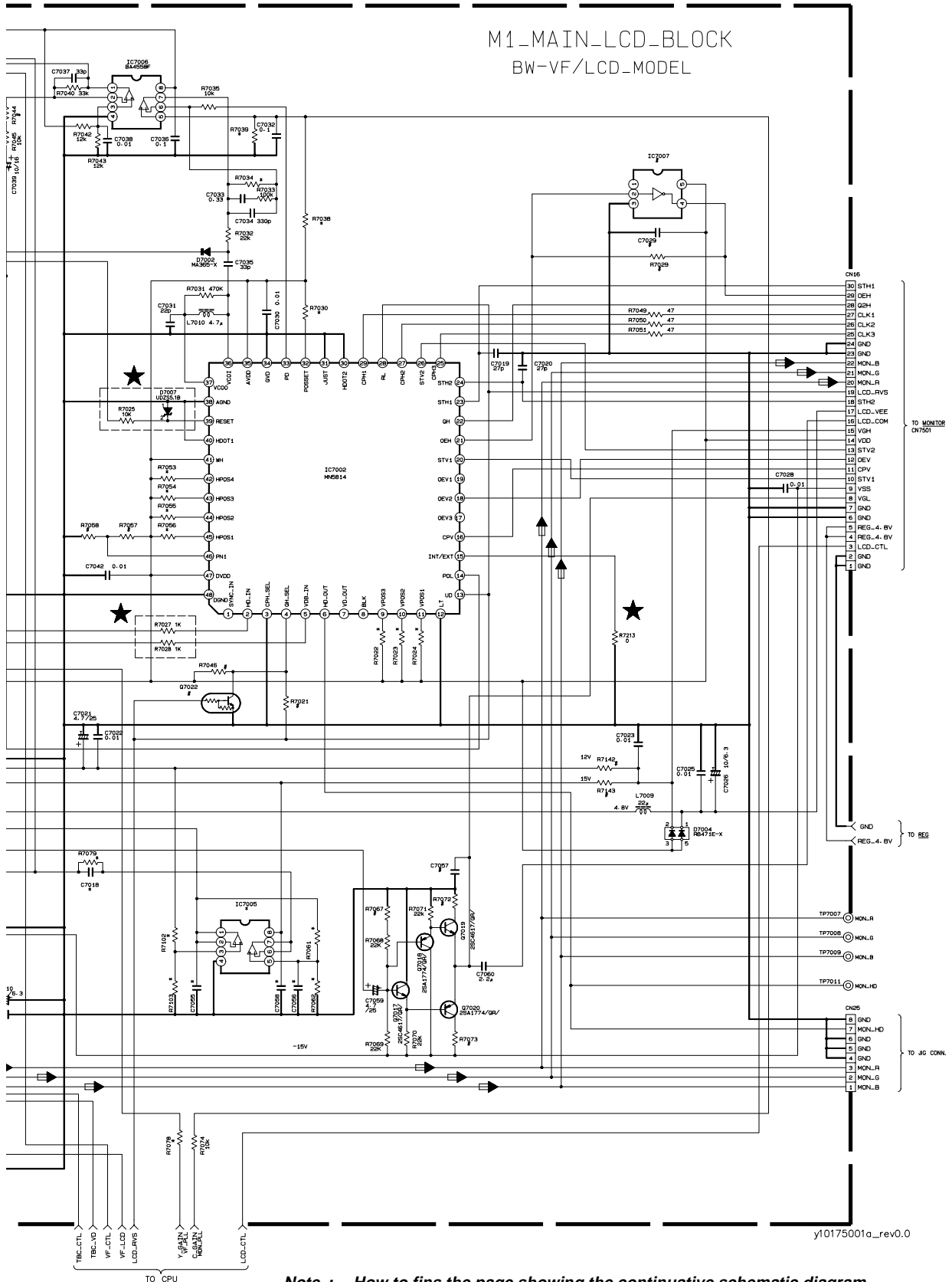
1



NOTES : 1. THE PARTS WITH MARKED (*) IS NOT USED. 2. The mark ★ means modified points.

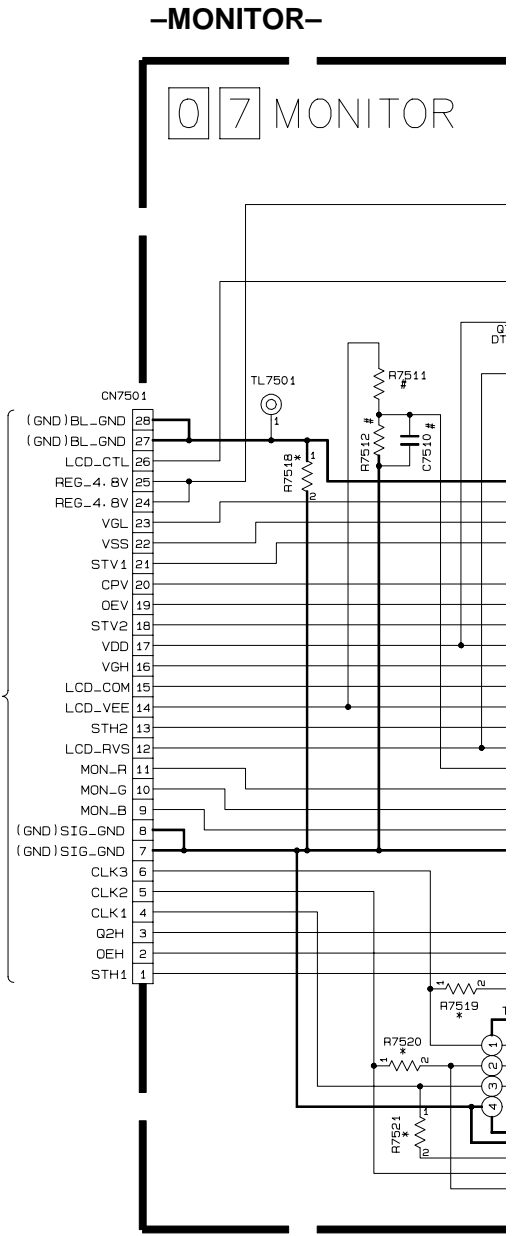
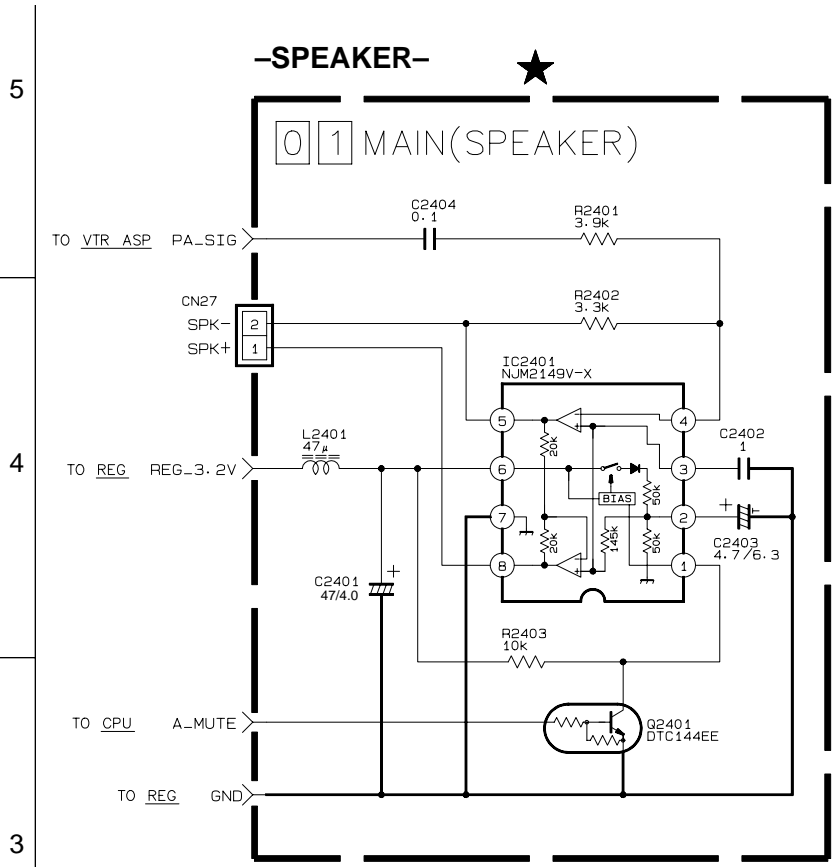
A B C D

- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



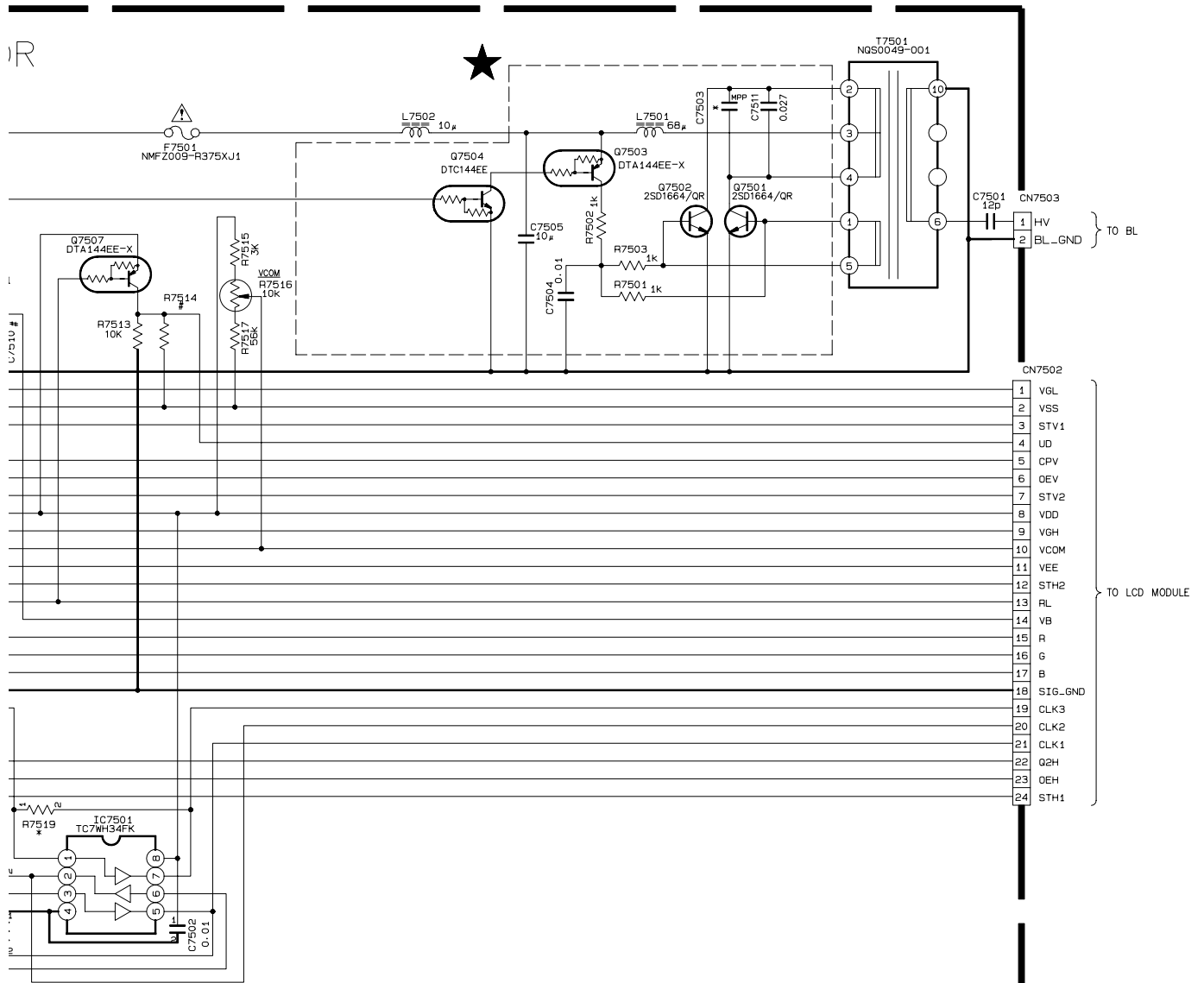
Note : How to fins the page showing the continuative schematic diagram.
 Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

4.8 SPEAKER AND MONITOR SCHEMATIC DIAGRAMS



NOTES : 1. THE PARTS WITH MARKED (*) IS

- NOTES:**
- For the destination of each signal and further line connections that are cut off from this diagram, refer to “4.1 BOARD INTERCONNECTIONS”.
 - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



ED (*) IS NOT USED.

2. The mark ★ means modified points.

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Note : How to fins the page showing the continuative schematic diagram.
Example) TO DSP : Refer to the reference model's service manual.
 TO DSP : Refer to this service manual.

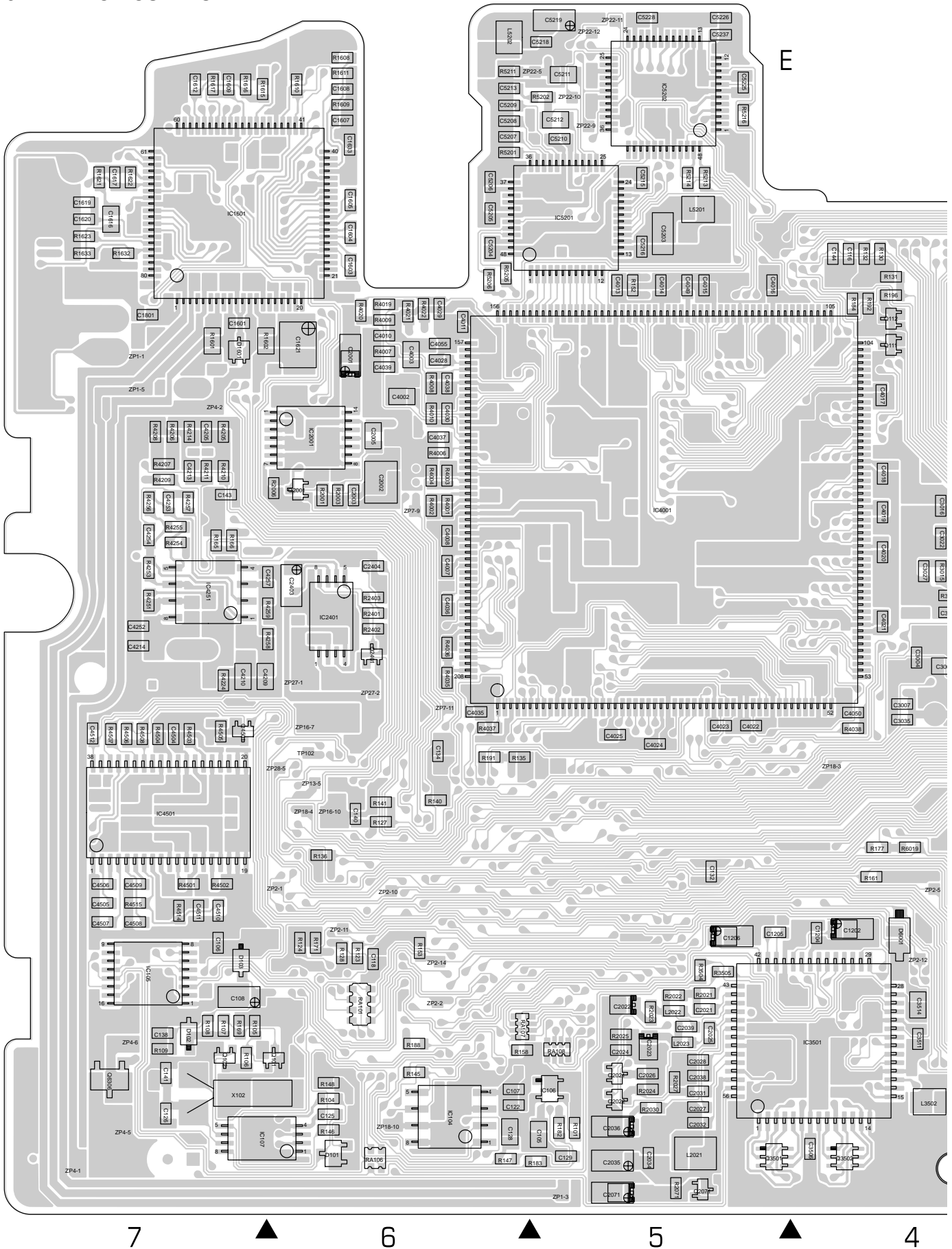
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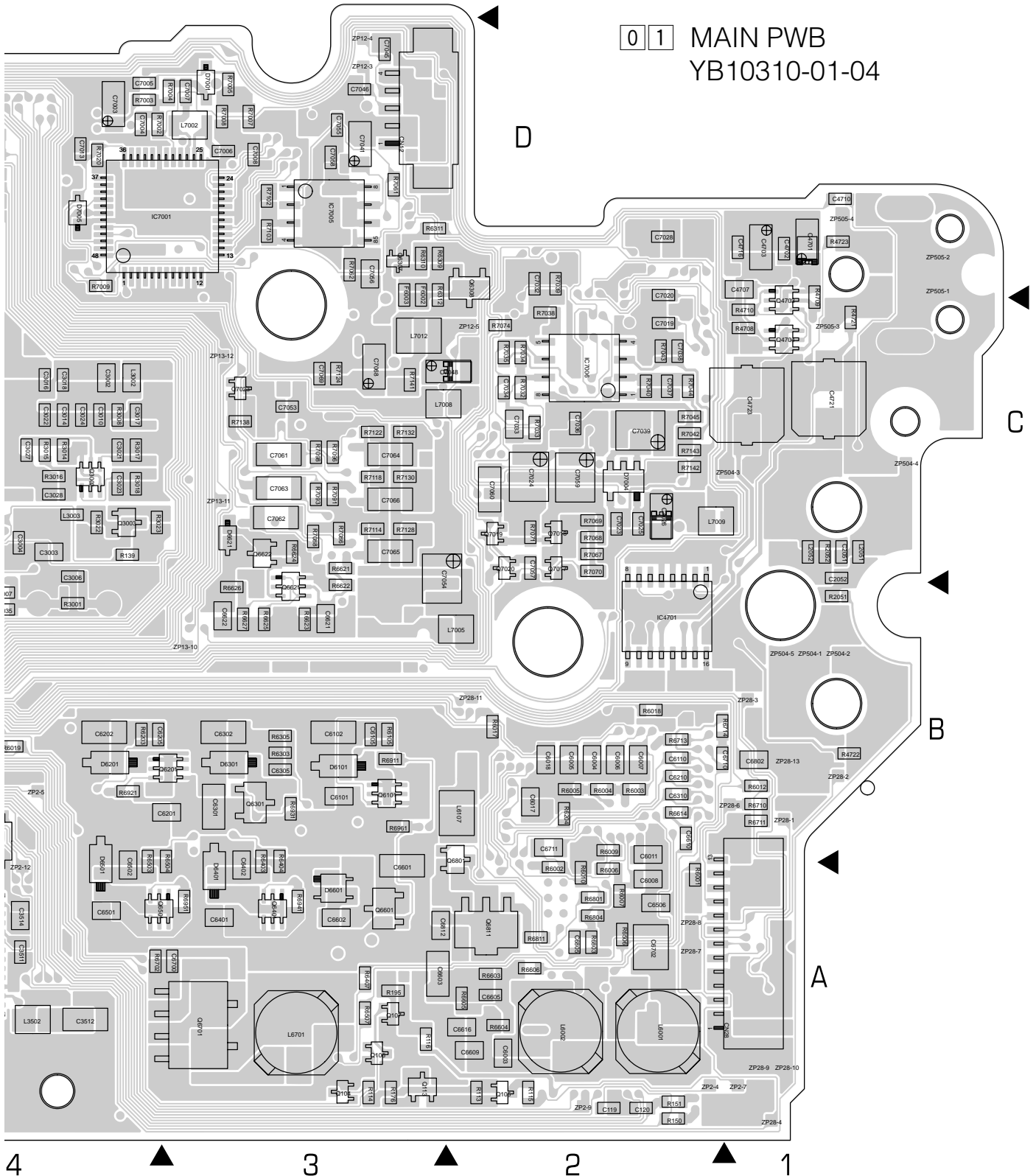
4.9 MAIN CIRCUIT BOARD



FOIL SIDE (B)

0 1

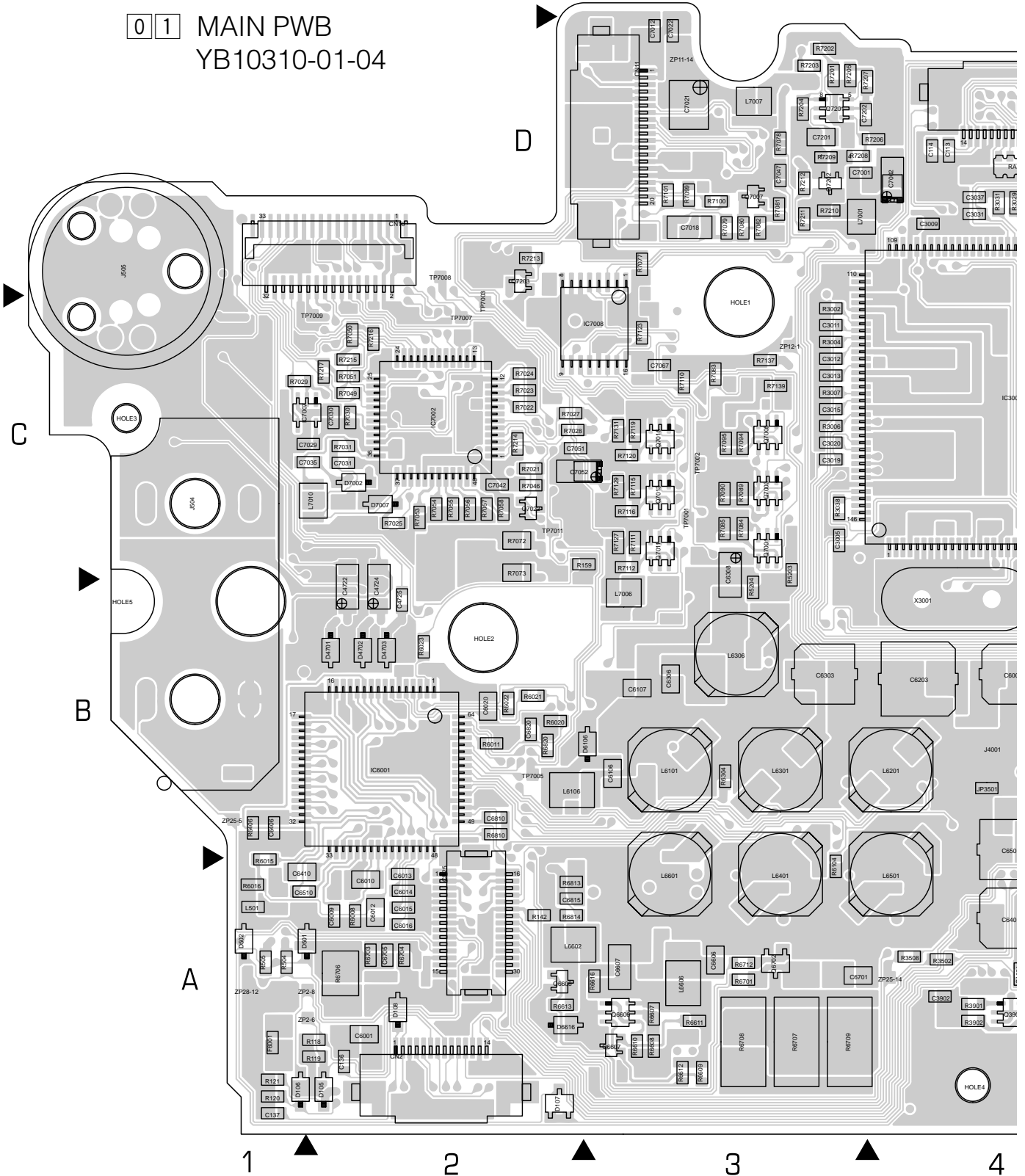
MAIN PWB
YB10310-01-04

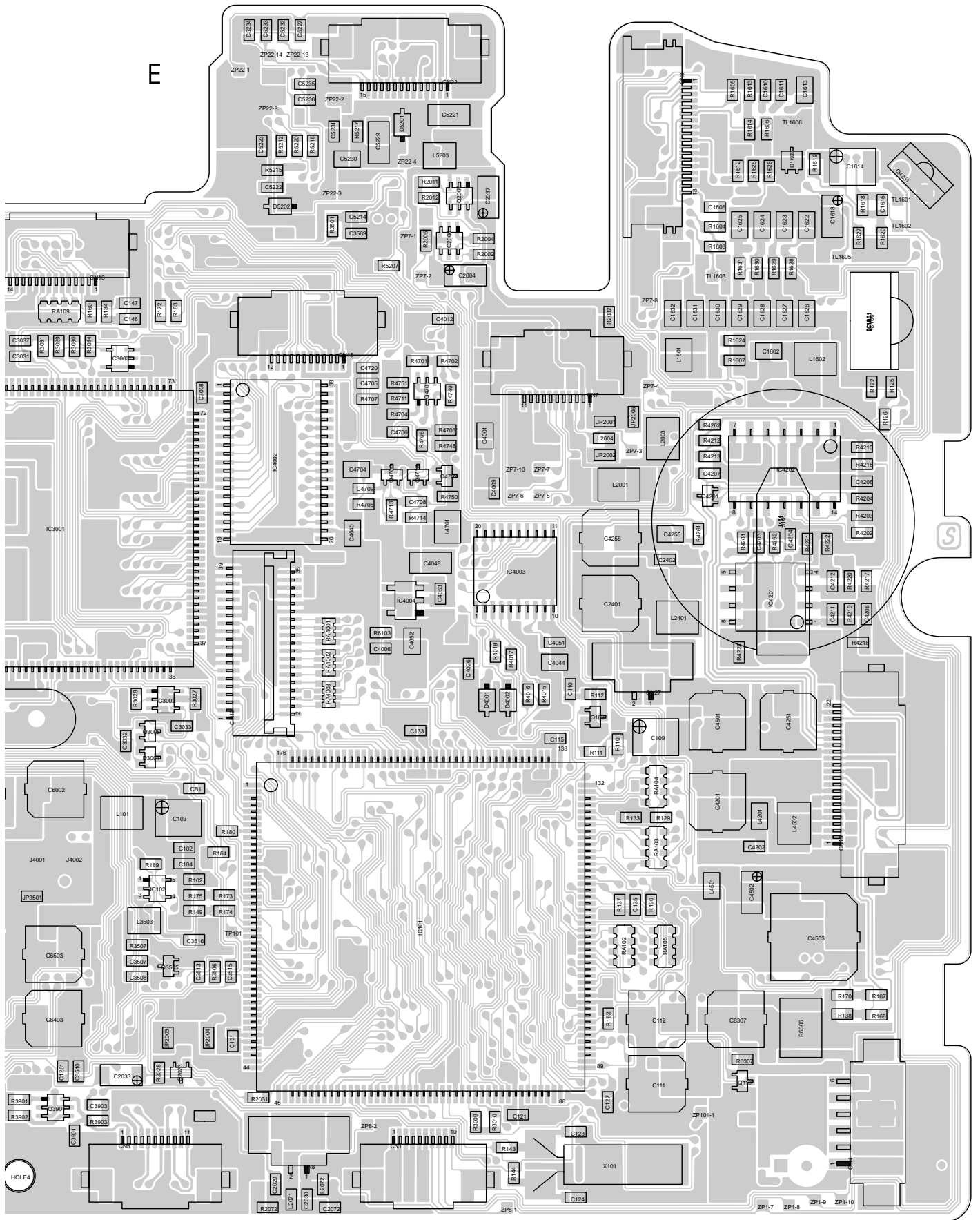


4 3 2 1

COMPONENT SIDE (A)

01 MAIN PWB
YB10310-01-04





4

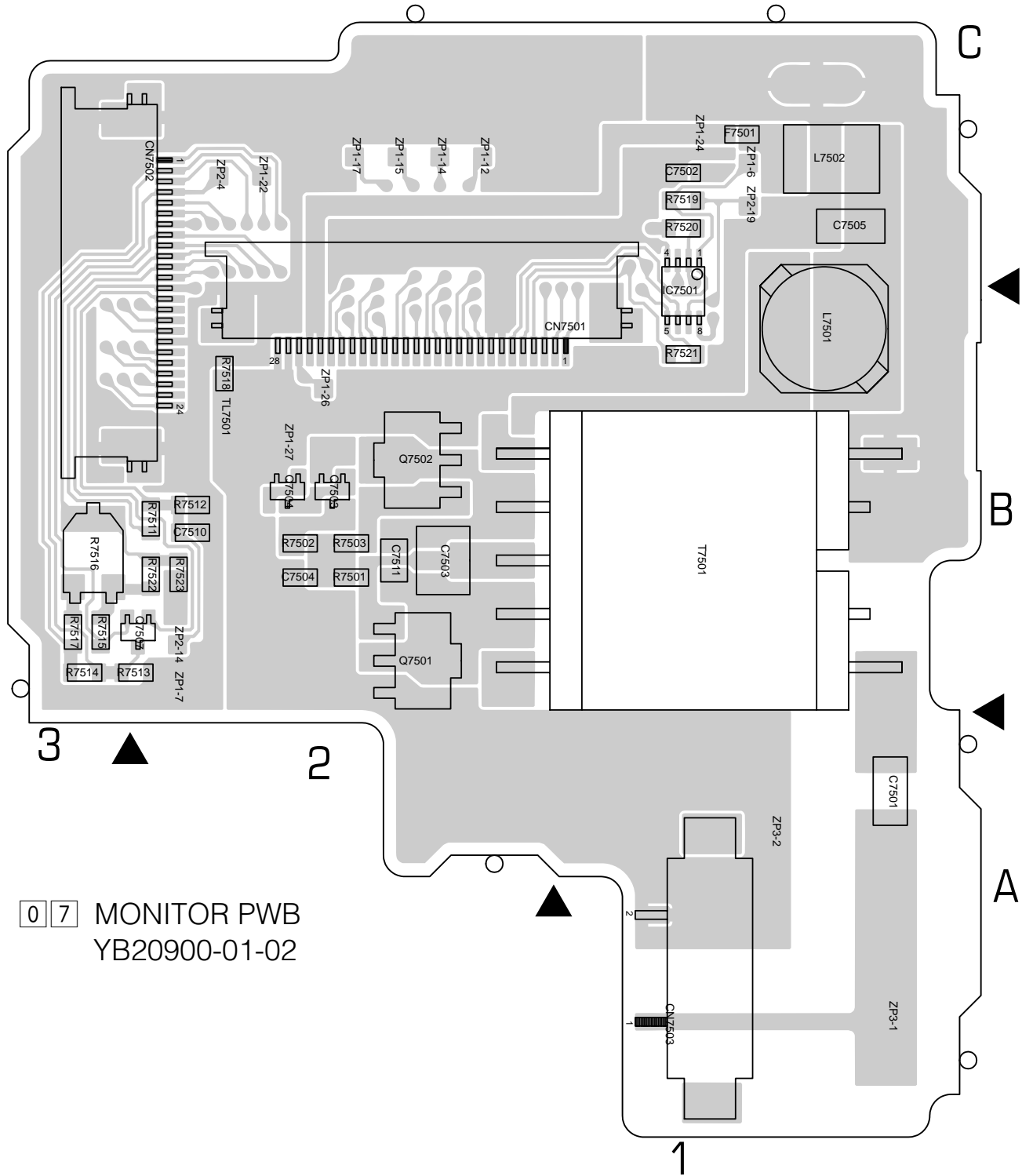
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4.10 MONITOR CIRCUIT BOARD

FOIL SIDE (B)

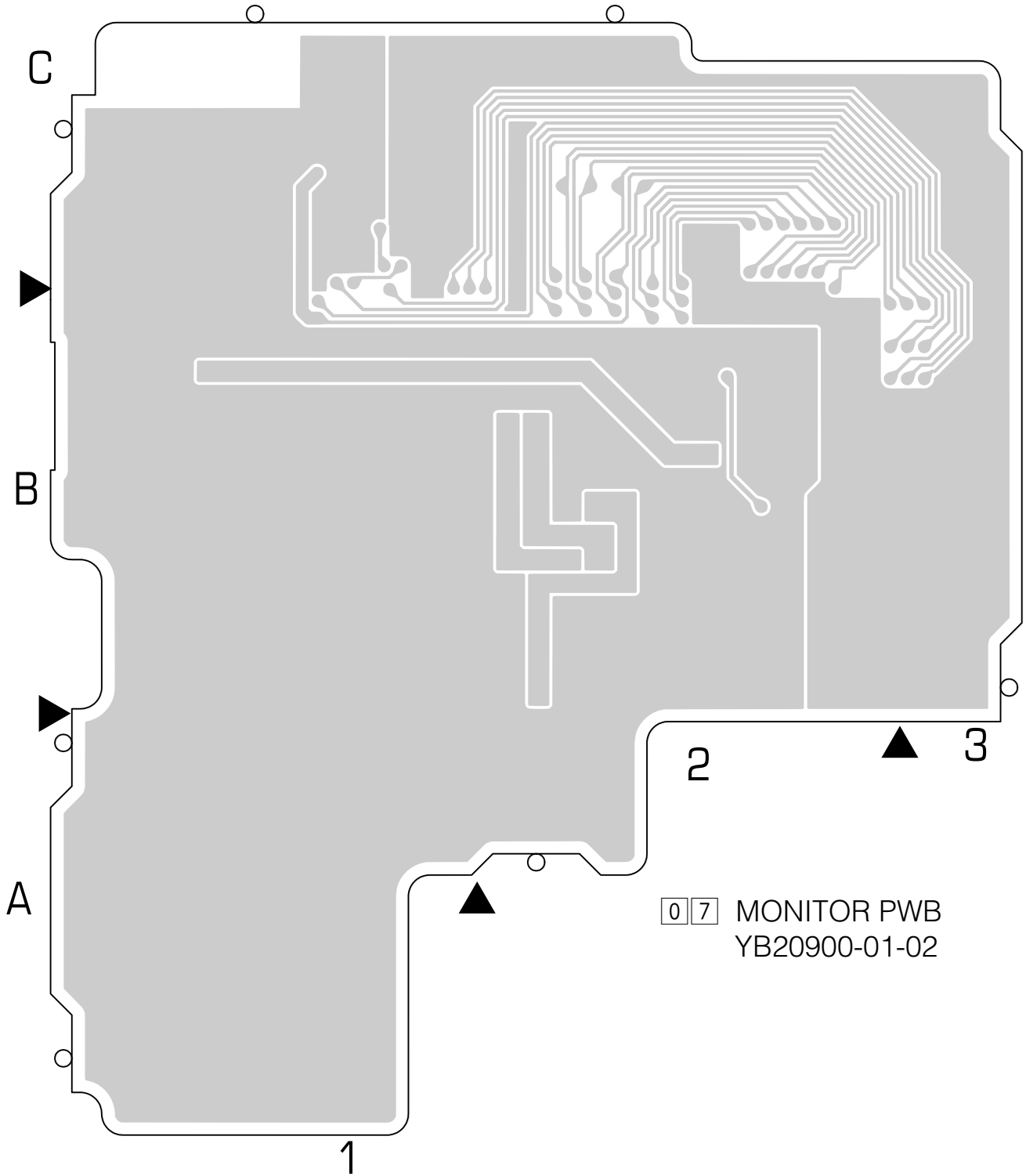


07 MONITOR PWB
YB20900-01-02

COMPONENT PARTS LOCATION GUIDE (MONITOR)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR		CONNECTOR		COIL		RESISTOR		OTHER		ZP1-15	B C 2C
C7501	B C 1A	CN7501	B C 1B	L7501	B C 1B	R7501	B C 2B	T7501	B C 1B	ZP1-17	B C 2C
C7502	B C 1C	CN7502	B C 2C	L7502	B C 1C	R7502	B C 2B	TL7501	B C 2B	ZP1-22	B C 2C
C7503	B C 2B	CN7503	B C 1A	TRANSISTOR		R7503	B C 2B	ZP1-6	B C 1C	ZP1-24	B C 1C
C7504	B C 2B			Q7501	B C 2B	R7511	B C 2B	ZP1-7	B C 1B	ZP1-26	B C 2B
C7505	B C 1C	FUSE		Q7502	B C 2B	R7512	B C 2B	ZP2-4	B C 2C	ZP1-27	B C 2B
C7510	B C 2B	F7501	B C 1C	Q7503	B C 2B	R7513	B C 2B	ZP3-1	B C 1A	ZP2-14	B C 2B
C7511	B C 2B	IC		Q7504	B C 2B	R7514	B C 3B	ZP3-2	B C 1A	ZP2-19	B C 1C
				Q7507	B C 2B	R7515	B C 3B	ZP1-12	B C 2C		
						R7516	B C 3B	ZP1-14	B C 2C		

COMPONENT SIDE (A)



07 MONITOR PWB
YB20900-01-02